



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1				BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT	199.5 hrs		Wed 03/05/23 07:00	Mon 22/05/23 17:30		
2				PROJECT MILESTONES	199.5 hrs		Wed 03/05/23 07:00	Mon 22/05/23 17:30		
3				Project Access Milestones	199.5 hrs		Wed 03/05/23 07:00	Mon 22/05/23 17:30		
4				Start of Utility Plant outage	0 hrs		Wed 03/05/23 07:00	Wed 03/05/23 07:00		
5				Completion of Utility Plant outage	0 hrs	25,26,27	Mon 22/05/23 17:30	Mon 22/05/23 17:30		
6				Access dates	40 hrs		Wed 03/05/23 07:00	Sun 07/05/23 05:00		
7				Boiler 1 off load	0 days	4	Wed 03/05/23 07:00	Wed 03/05/23 07:00		
8				Boiler 2 off load	0 days	7FS+2 da	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
9				Boiler 1 Cool down	4 days	7,4	Wed 03/05/23 07:00	Fri 05/05/23 03:00		
10				Boiler 2 Cool down	4 days	8,4	Fri 05/05/23 09:00	Sun 07/05/23 05:00		
11				Boiler 1 - Wash & Clean	0 days	9,4	Fri 05/05/23 03:00	Fri 05/05/23 03:00		
12				Boiler 2 - Wash & Clean	0 days	10,4	Sun 07/05/23 05:00	Sun 07/05/23 05:00		
13				Boiler Plant common - Access	0 days	7,4	Wed 03/05/23 07:00	Wed 03/05/23 07:00		
14				Turbine - Access	0 days	9,10,4	Sun 07/05/23 05:00	Sun 07/05/23 05:00		
15				Water treatment Plant - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
16				MEA Plant - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
17				Compressed Air - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
18				Solar Ponds access	0 days	20SS	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
19				Steam and Condensate - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
20				Coal plant - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
21				Flue Gas Desulphurisation - Access	0 days	8,4	Fri 05/05/23 09:00	Fri 05/05/23 09:00		
22				Electrical - Access	0 days	11,12,4	Sun 07/05/23 05:00	Sun 07/05/23 05:00		
23				Instrumentation - Access	0 days	11,12,4	Sun 07/05/23 05:00	Sun 07/05/23 05:00		
24				Completion dates	39.75 hrs		Thu 18/05/23 17:45	Mon 22/05/23 17:30		
25				Boiler 1 Mech complete	0 days	877,901,	Sat 20/05/23 17:45	Sat 20/05/23 17:45		
26				Boiler 2 Mech complete	0 days	1843,186	Mon 22/05/23 17:30	Mon 22/05/23 17:30		
27				Boiler 1 - Fires in and start up	0 days	25,31,34	Sat 20/05/23 17:45	Sat 20/05/23 17:45		
28				Boiler 2 - Fires in and start up	0 days	25,26,31	Mon 22/05/23 17:30	Mon 22/05/23 17:30		
29				Boier Plant common - Ready for production	0 days	2652,266	Fri 19/05/23 09:15	Fri 19/05/23 09:15		
30				Turbine - On Barring and ready for load	0 days	29,3499,	Mon 22/05/23 16:15	Mon 22/05/23 16:15		
31				Water treatment Plant - Ready for operation	0 days	2875,288	Fri 19/05/23 15:30	Fri 19/05/23 15:30		
32				MEA Plant - Ready for operation	0 days	431,435,	Sat 20/05/23 16:30	Sat 20/05/23 16:30		
33				Steam and Condensate - On pressure	0 days	3259,327	Fri 19/05/23 09:15	Fri 19/05/23 09:15		
34				Coal plant - Ready for distribution to Boiler	0 days	2609,261	Fri 19/05/23 16:45	Fri 19/05/23 16:45		
35				Flue Gas Desulphurisation - Ready for operation	0 days	66,72,91	Sat 20/05/23 15:30	Sat 20/05/23 15:30		
36				Solar Ponds Coolind Water lines - ready for operation	0 days	47,54	Sat 20/05/23 17:30	Sat 20/05/23 17:30		
37				Electrical - FAT and commissioned	0 days	4548,455	Thu 18/05/23 17:45	Thu 18/05/23 17:45		
38				Instrumentation - FAT and Commissioned	0 days	177,201,	Mon 22/05/23 15:15	Mon 22/05/23 15:15		
39				SOLAR PONDS COOLING WATER LINE	157.5 hrs		Fri 05/05/23 09:00	Sat 20/05/23 17:30		
40				MECHANICAL	157.5 hrs		Fri 05/05/23 09:00	Sat 20/05/23 17:30		
41			R359722	BASHUT-0001 - Cooling Water line - replace phase 2 of 3	108.75 hrs		Fri 05/05/23 09:00	Tue 16/05/23 07:45		
42			R359722	Make out permit	0.25 hrs	20,18	Fri 05/05/23 09:00	Fri 05/05/23 09:15		
43			R359722	Accept permit	0.25 hrs	42	Fri 05/05/23 09:15	Fri 05/05/23 09:30		
44			R359722	Remove existing pipes	36 hrs	43	Fri 05/05/23 09:30	Mon 08/05/23 16:30		
45			R359722	Rig new HDPE lines into position	72 hrs	44	Mon 08/05/23 16:30	Tue 16/05/23 07:30		
46			R359722	Connect flanges on line	36 hrs	45FF	Fri 12/05/23 11:30	Tue 16/05/23 07:30		
47			R359722	Clear permit	0.25 hrs	46	Tue 16/05/23 07:30	Tue 16/05/23 07:45		
48			R359723	BASHUT-0002 - Lake cooling water pumps - Replace Isolation valves	48.75 hrs		Tue 16/05/23 07:45	Sat 20/05/23 17:30		
49			R359723	Make out permit	0.25 hrs	42,47	Tue 16/05/23 07:45	Tue 16/05/23 08:00		
50			R359723	Accept permit	0.25 hrs	49	Tue 16/05/23 08:00	Tue 16/05/23 08:15		
51			R359723	Remove existing valves	12 hrs	50	Tue 16/05/23 08:15	Wed 17/05/23 10:15		
52			R359723	Rig new valves into position	24 hrs	51	Wed 17/05/23 10:15	Fri 19/05/23 15:15		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
53			R359723	Connect & tighten flanges on line	12 hrs	52	Fri 19/05/23 15:15	Sat 20/05/23 17:15	
54			R359723	Clear permit	0.25 hrs	53	Sat 20/05/23 17:15	Sat 20/05/23 17:30	
55		AREA 30A		FLUE GAS DESULPHURISATION	177.5 hrs		Wed 03/05/23 07:00	Sat 20/05/23 15:30	
56				OPERATIONS	55.75 hrs		Wed 03/05/23 07:00	Mon 08/05/23 13:45	
57				BASHUT-0003 - SO2 SODA ASH SUMP - Clean	55.75 hrs		Wed 03/05/23 07:00	Mon 08/05/23 13:45	
58				Make out permit	0.25 hrs	7	Wed 03/05/23 07:00	Wed 03/05/23 07:15	Operations
59				Accept permit	0.25 hrs	58	Wed 03/05/23 07:15	Wed 03/05/23 07:30	Operations
60				Pump sump empty	13 hrs	61	Wed 03/05/23 08:30	Thu 04/05/23 11:30	Operations
61				Carry out risk assessment	1 hr	59	Wed 03/05/23 07:30	Wed 03/05/23 08:30	Operations
62				Open sump cover	4 hrs	60	Thu 04/05/23 11:30	Thu 04/05/23 16:30	Operations
63				Pump out last bit of liquid	8 hrs	62	Thu 04/05/23 16:30	Fri 05/05/23 14:30	Operations
64				Wash sump with clean water	4 hrs	63	Fri 05/05/23 14:30	Sat 06/05/23 07:30	Operations
65				Remove all solids from the sump	25 hrs	64	Sat 06/05/23 07:30	Mon 08/05/23 13:30	Operations
66				Clear permit	0.25 hrs	65	Mon 08/05/23 13:30	Mon 08/05/23 13:45	Operations
67				BASHUT-0004 - FLUE GAS BOOSTER FANS	29.75 hrs		Wed 03/05/23 07:15	Fri 05/05/23 18:00	
68				Make out permit	0.25 hrs	58	Wed 03/05/23 07:15	Wed 03/05/23 07:30	Operations
69				Accept permit	0.25 hrs	68	Wed 03/05/23 07:30	Wed 03/05/23 07:45	Operations
70				Remove all the ash around the Flue Gas Booster fans	4 hrs	69	Wed 03/05/23 07:45	Wed 03/05/23 11:45	Operations
71				Wash out with water	25 hrs	70	Wed 03/05/23 11:45	Fri 05/05/23 17:45	Operations
72				Clear permit	0.25 hrs	71	Fri 05/05/23 17:45	Fri 05/05/23 18:00	Operations
73				MECHANICAL	166.5 hrs	57SS+1 d	Thu 04/05/23 08:00	Sat 20/05/23 15:30	
74		30A2DK01	R359072	BASHUT-0005 - SO2 ABSORBER - Inspection	166.5 hrs		Thu 04/05/23 08:00	Sat 20/05/23 15:30	
75			R359072	Make out permit	0.25 hrs	58	Thu 04/05/23 08:00	Thu 04/05/23 08:15	Operations
76			R359072	Accept permit	0.25 hrs	75	Thu 04/05/23 08:15	Thu 04/05/23 08:30	FT-Util7
77			R359072	Disconnect& remove Instruments	2.5 hrs	76	Thu 04/05/23 08:30	Thu 04/05/23 11:00	INS-Util5
78			R359072	Drain	1 hr	77	Thu 04/05/23 11:00	Thu 04/05/23 12:00	Operations
79			R359072	Open& allow to cool	36 hrs	78	Thu 04/05/23 13:00	Mon 08/05/23 08:00	FT-Util7
80			R359072	Erect internal scaffold	12 hrs	79	Mon 08/05/23 08:00	Tue 09/05/23 10:00	RSC Scaffold
81			R359072	Install vent fans& lighting	1 hr	80	Tue 09/05/23 10:00	Tue 09/05/23 11:00	EL-Util1,FT-Util7,T Mmatli,J Mosenya
82			R359072	Clean So2 Absorber& discale bubble caps	44 hrs	81	Tue 09/05/23 11:00	Sat 13/05/23 16:00	Operations
83			R359072	Inspect demister pad	2 hrs	82	Sat 13/05/23 16:00	Sat 13/05/23 18:00	Inspector,FT-Util7
84			R359072	Remove& clear manifold	24 hrs	83	Sun 14/05/23 07:00	Tue 16/05/23 11:00	FT-Util7
85			R359072	Inspect So2 Absorber for defects on trays	20 hrs	84	Tue 16/05/23 11:00	Thu 18/05/23 11:00	Inspector,FT-Util7
86			R359072	Carry out mechanical repairs	12 hrs	85	Thu 18/05/23 11:00	Fri 19/05/23 14:00	FT-Util7
87			R359072	Remove vent fans & lighting	1 hr	86	Fri 19/05/23 14:00	Fri 19/05/23 15:00	7.5Tcrane,EL-Util1,T Mmatli,J Mosenya
88			R359072	Remove Internal scaffold	10 hrs	87	Fri 19/05/23 15:00	Sat 20/05/23 15:00	RSC Scaffold
89			R359072	Sign off vessel entry permit	0.25 hrs	88	Sat 20/05/23 15:00	Sat 20/05/23 15:15	Foreman
90			R359072	Pre-start checks	0 hrs	89	Sat 20/05/23 15:15	Sat 20/05/23 15:15	Operations
91			R359072	Clear permit	0.25 hrs	90	Sat 20/05/23 15:15	Sat 20/05/23 15:30	FT-Util7
92		30A2GB01	R359073	BASHUT-0006 - # A FLUE GAS BOOSTER FAN - Repair Silencer flanges	39.25 hrs		Mon 08/05/23 08:00	Fri 12/05/23 07:15	
93			R359073	Cut gaskets prior	1 hr	79	Mon 08/05/23 08:00	Mon 08/05/23 09:00	
94			R359073	Make out permit	0.25 hrs	93	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations
95			R359073	Accept permit	0.25 hrs	94	Mon 08/05/23 09:15	Mon 08/05/23 09:30	BM-Util1
96			R359073	Remove all the bolts on the silencer and the casing	4 hrs	95	Mon 08/05/23 09:30	Mon 08/05/23 14:30	FT-Util13
97			R359073	Secure the bellow not to break	1 hr	96	Mon 08/05/23 14:30	Mon 08/05/23 15:30	T Mmatli,J Mosenya
98			R359073	Rig out the silencer	2.5 hrs	97	Mon 08/05/23 15:30	Mon 08/05/23 18:00	T Mmatli,J Mosenya
99			R359073	Install new gasket on the flanges	22 hrs	98	Tue 09/05/23 07:00	Thu 11/05/23 09:00	FT-Util13
100			R359073	Rig in the silencer	4 hrs	99	Thu 11/05/23 09:00	Thu 11/05/23 14:00	T Mmatli,J Mosenya
101			R359073	Box up the silencer	4 hrs	100	Thu 11/05/23 14:00	Thu 11/05/23 18:00	FT-Util13
102			R359073	Clear permit	0.25 hrs	101	Thu 11/05/23 18:00	Fri 12/05/23 07:15	FT-Util13
103		30A2GB02	R359074	BASHUT-0007 - # B FLUE GAS BOOSTER FAN - Repair Silencer flanges	48.25 hrs		Mon 08/05/23 09:30	Sat 13/05/23 07:45	
104			R359074	Cut gaskets prior	1 hr	95	Mon 08/05/23 09:30	Mon 08/05/23 10:30	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
105			R359074	Make out permit	0.25 hrs	104	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Operations	
106			R359074	Accept permit	0.25 hrs	105	Mon 08/05/23 10:45	Mon 08/05/23 11:00	BM-Util1	
107			R359074	Remove all the bolts on the silencer and the casing	1 hr	106	Mon 08/05/23 11:00	Mon 08/05/23 12:00	L Jabane,C Lithemba	
108			R359074	Secure the bellow not to break	1 hr	107	Mon 08/05/23 12:00	Mon 08/05/23 14:00	T Mmatli,J Mosenya	
109			R359074	Rig out the silencer	1 hr	108	Mon 08/05/23 14:00	Mon 08/05/23 15:00	T Mmatli,J Mosenya	
110			R359074	Install new gasket on the flanges	2.5 hrs	109	Mon 08/05/23 15:00	Mon 08/05/23 17:30	L Jabane,C Lithemba	
111			R359074	Rig in the silencer	24 hrs	110	Mon 08/05/23 17:30	Thu 11/05/23 10:30	T Mmatli,J Mosenya	
112			R359074	Box up the silencer	17 hrs	111	Thu 11/05/23 10:30	Sat 13/05/23 07:30	L Jabane,C Lithemba	
113			R359074	Clear permit	0.25 hrs	112	Sat 13/05/23 07:30	Sat 13/05/23 07:45	L Jabane,C Lithemba	
114		30A2GB01	R359540	BASHUT-0008 - # A FLUE GAS BOOSTER FAN - expansion bellows Inspection	27.75 hrs		Sat 13/05/23 07:45	Mon 15/05/23 16:30		
115			R359540	Make out permit	0.25 hrs	113	Sat 13/05/23 07:45	Sat 13/05/23 08:00	Operations	
116			R359540	Accept permit	0.25 hrs	115	Sat 13/05/23 08:00	Sat 13/05/23 08:15	BM-Util1	
117			R359540	Inspect expansion bellow	1 hr	116	Sat 13/05/23 08:15	Sat 13/05/23 09:15	BM-Util1	
118			R359540	Repair expansion below if needed	26 hrs	117	Sat 13/05/23 09:15	Mon 15/05/23 16:15	BM-Util1	
119			R359540	Clear permit	0.25 hrs	118	Mon 15/05/23 16:15	Mon 15/05/23 16:30	BM-Util1	
120		30A2GB02	R359541	BASHUT-0009 - # B FLUE GAS BOOSTER FAN - expansion bellows inspection	9 hrs		Mon 15/05/23 16:30	Tue 16/05/23 15:30		
121			R359541	Make out permit	3.5 hrs	119	Mon 15/05/23 16:30	Tue 16/05/23 09:00	Operations	
122			R359541	Accept permit	0.25 hrs	121	Tue 16/05/23 09:00	Tue 16/05/23 09:15	BM-Util5	
123			R359541	Inspect expansion bellow	1 hr	122	Tue 16/05/23 09:15	Tue 16/05/23 10:15	BM-Util5	
124			R359541	Repair expansion bellow if needed	4 hrs	123	Tue 16/05/23 10:15	Tue 16/05/23 15:15	BM-Util5	
125			R359541	Clear permit	0.25 hrs	124	Tue 16/05/23 15:15	Tue 16/05/23 15:30		
126		30A2GB02	R359542	BASHUT-0010 - #A FLUE GAS BOOSTER FAN - Repair leaks discharge valve (inspection)	7.75 hrs		Tue 16/05/23 15:15	Wed 17/05/23 12:00		
127			R359542	Make out permit	0.25 hrs	124	Tue 16/05/23 15:15	Tue 16/05/23 15:30	Operations	
128			R359542	Accept permit	0.25 hrs	127	Tue 16/05/23 15:30	Tue 16/05/23 15:45	L Jabane,C Lithemba	
129			R359542	Carry out cosmetic repairs	6 hrs	128	Tue 16/05/23 15:45	Wed 17/05/23 10:45	BM-Util2,L Jabane,C Lithemba	
130			R359542	Box up	1 hr	129	Wed 17/05/23 10:45	Wed 17/05/23 11:45	L Jabane,C Lithemba	
131			R359542	Clear permit	0.25 hrs	130	Wed 17/05/23 11:45	Wed 17/05/23 12:00	L Jabane,C Lithemba	
132		30A2GB02	R359543	BASHUT-0011 - # B FLUE GAS BOOSTER FAN - Repair leaks discharge valve (inspection)	27.75 hrs		Wed 17/05/23 12:00	Sat 20/05/23 09:45		
133			R359543	Make out permit	0.25 hrs	131	Wed 17/05/23 12:00	Wed 17/05/23 13:15	Operations	
134			R359543	Accept permit	0.25 hrs	133	Wed 17/05/23 13:15	Wed 17/05/23 13:30	L Jabane,C Lithemba	
135			R359543	Carry out cosmetic repairs	6 hrs	134	Wed 17/05/23 13:30	Thu 18/05/23 08:30	BM-Util2,L Jabane,C Lithemba	
136			R359543	Box up	21 hrs	135	Thu 18/05/23 08:30	Sat 20/05/23 09:30	L Jabane,C Lithemba	
137			R359543	Clear permit	0.25 hrs	136	Sat 20/05/23 09:30	Sat 20/05/23 09:45	L Jabane,C Lithemba	
138		30A2GB02	R359544	BASHUT-0012 - # B FLUE GAS BOOSTER FAN - Replace suction valve	21.25 hrs		Thu 04/05/23 08:00	Sat 06/05/23 09:15		
139			R359544	Make out permit	0.25 hrs		Thu 04/05/23 08:00	Thu 04/05/23 08:15	Operations	
140			R359544	Accept permit	0.25 hrs	139	Thu 04/05/23 08:15	Thu 04/05/23 08:30	L Jabane,C Lithemba	
141			R359544	Loosen / cut out existing suction valve	4 hrs	140	Thu 04/05/23 08:30	Thu 04/05/23 13:30	BM-Util2,L Jabane,C Lithemba	
142			R359544	Remove existing valve	2.5 hrs	141	Thu 04/05/23 13:30	Thu 04/05/23 16:00	BM-Util2,L Jabane,C Lithemba	
143			R359544	Lift and position new valve	8 hrs	142	Thu 04/05/23 16:00	Fri 05/05/23 14:00	BM-Util2,L Jabane,C Lithemba	
144			R359544	Tighten and Box up	6 hrs	143	Fri 05/05/23 14:00	Sat 06/05/23 09:00	L Jabane,C Lithemba	
145			R359544	Clear permit	0.25 hrs	144	Sat 06/05/23 09:00	Sat 06/05/23 09:15	L Jabane,C Lithemba	
146		30A2GB02	R359545	BASHUT-0013 - # B FLUE GAS BOOSTER FAN - Replace suction valve bellow	116.75 hrs		Thu 04/05/23 08:15	Mon 15/05/23 16:00		
147			R359545	Make out permit	18.25 hrs	139	Thu 04/05/23 08:15	Fri 05/05/23 17:30	Operations	
148			R359545	Accept permit	0.25 hrs	147	Fri 05/05/23 17:30	Fri 05/05/23 17:45	L Jabane,C Lithemba	
149			R359545	Loosen / cut out existing suction bellow	23.25 hrs	148	Fri 05/05/23 17:45	Mon 08/05/23 10:00	BM-Util2,L Jabane,C Lithemba	
150			R359545	Remove existing bellow	24 hrs	149	Mon 08/05/23 10:00	Wed 10/05/23 15:00	BM-Util2,L Jabane,C Lithemba	
151			R359545	Lift and position new bellow	23 hrs	150	Wed 10/05/23 15:00	Fri 12/05/23 18:00	BM-Util2,L Jabane,C Lithemba	
152			R359545	Weld new bellow into position	23.75 hrs	151	Sat 13/05/23 07:00	Mon 15/05/23 10:45	L Jabane,C Lithemba	
153			R359545	NDT	4 hrs	152	Mon 15/05/23 10:45	Mon 15/05/23 15:45	L Jabane,C Lithemba	
154			R359545	Clear permit	0.25 hrs	153	Mon 15/05/23 15:45	Mon 15/05/23 16:00	L Jabane,C Lithemba	
155		30A2GB01	R359546	BASHUT-0014 - # A FLUE GAS BOOSTER FAN - Replace rotating assembly & casing	72.75 hrs		Thu 04/05/23 08:00	Thu 11/05/23 10:45		
156			R359546	Make out permit	0.25 hrs		Thu 04/05/23 08:00	Thu 04/05/23 08:15	Operations	



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157			R359546	Accept permit	0.25 hrs	156	Thu 04/05/23 08:15	Thu 04/05/23 08:30	L Jabane,C Lithemba	
158			R359546	Remove Instruments	1 hr	157	Thu 04/05/23 08:30	Thu 04/05/23 09:30	INS-Util1	
159			R359546	Loosen cross over duct	1 hr	158	Thu 04/05/23 09:30	Thu 04/05/23 10:30	L Jabane,C Lithemba	
160			R359546	Loosen top half casing	1 hr	159	Thu 04/05/23 10:30	Thu 04/05/23 11:30	L Jabane,C Lithemba	
161			R359546	Remove Inlet cones	1 hr	160	Thu 04/05/23 11:30	Thu 04/05/23 13:30	BM-Util1,L Jabane,C Lithemba	
162			R359546	Uncouple Rotating assembly	1 hr	161	Thu 04/05/23 13:30	Thu 04/05/23 14:30	L Jabane,C Lithemba	
163			R359546	Rig out cross over duct	23 hrs	162	Thu 04/05/23 14:30	Sat 06/05/23 17:30	L Jabane,C Lithemba,T Mmatli,J Mosenya	
164			R359546	Rig out top half casing	21 hrs	163	Sat 06/05/23 17:30	Tue 09/05/23 07:30	L Jabane,C Lithemba,T Mmatli,J Mosenya	
165			R359546	Rig out rotating assembly	1 hr	164	Tue 09/05/23 07:30	Tue 09/05/23 08:30	L Jabane,C Lithemba,T Mmatli,J Mosenya	
166			R359546	Rig out Bottom casing	1 hr	165	Tue 09/05/23 08:30	Tue 09/05/23 09:30	L Jabane,C Lithemba,T Mmatli,J Mosenya	
167			R359546	Clean base	2.5 hrs	166	Tue 09/05/23 09:30	Tue 09/05/23 12:00	Operations	
168			R359546	Rig in new bottom casing	1 hr	167	Tue 09/05/23 12:00	Tue 09/05/23 14:00	L Jabane,C Lithemba,T Mmatli,J Mosenya	
169			R359546	Rig in rotating assembly	1 hr	168	Tue 09/05/23 14:00	Tue 09/05/23 15:00	L Jabane,C Lithemba,T Mmatli,J Mosenya	
170			R359546	Box up rotating assembly	4 hrs	169	Tue 09/05/23 15:00	Wed 10/05/23 08:00	L Jabane,C Lithemba	
171			R359546	Align bottom casing to assembly and dowel	1 hr	170	Wed 10/05/23 08:00	Wed 10/05/23 09:00	L Jabane,C Lithemba	
172			R359546	Rig in new casing top half	1 hr	171	Wed 10/05/23 09:00	Wed 10/05/23 10:00	L Jabane,C Lithemba,T Mmatli,J Mosenya	
173			R359546	Rig in cross overduct	1 hr	172	Wed 10/05/23 10:00	Wed 10/05/23 11:00	L Jabane,C Lithemba,T Mmatli,J Mosenya	
174			R359546	Box up casing	1 hr	173	Wed 10/05/23 11:00	Wed 10/05/23 12:00	L Jabane,C Lithemba	
175			R359546	Box up inlet cones	1 hr	174	Wed 10/05/23 13:00	Wed 10/05/23 14:00	L Jabane,C Lithemba	
176			R359546	Reassemble coupling & align	2.5 hrs	175	Wed 10/05/23 14:00	Wed 10/05/23 16:30	L Jabane,C Lithemba	
177			R359546	Refit instrumentation	5 hrs	176	Wed 10/05/23 16:30	Thu 11/05/23 10:30	INS-Util3	
178			R359546	Clear permit	0.25 hrs	177	Thu 11/05/23 10:30	Thu 11/05/23 10:45	L Jabane,C Lithemba	
179		30A2GB02	R359547	BASHUT-0015 - # B FLUE GAS BOOSTER FAN - Replace rotating assembly & casing	78 hrs		Thu 04/05/23 08:00	Thu 11/05/23 17:00		
180			R359547	Make out permit	0.25 hrs	156SS	Thu 04/05/23 08:00	Thu 04/05/23 08:15	Operations	
181			R359547	Accept permit	0.25 hrs	180	Thu 04/05/23 08:15	Thu 04/05/23 08:30	L Jabane,C Lithemba	
182			R359547	Remove Instruments	1 hr	181	Thu 04/05/23 08:30	Thu 04/05/23 09:30	INS-Util1	
183			R359547	Loosen cross over duct	2.75 hrs	182	Thu 04/05/23 09:30	Thu 04/05/23 13:15	L Jabane,C Lithemba	
184			R359547	Loosen top half casing	1 hr	183	Thu 04/05/23 13:15	Thu 04/05/23 14:15	L Jabane,C Lithemba	
185			R359547	Remove Inlet cones	1 hr	184	Thu 04/05/23 14:15	Thu 04/05/23 15:15	BM-Util5,L Jabane,C Lithemba	
186			R359547	Uncouple Rotating assembly	1 hr	185	Thu 04/05/23 15:15	Thu 04/05/23 16:15	L Jabane,C Lithemba	
187			R359547	Rig out cross over duct	23 hrs	186	Thu 04/05/23 16:15	Sun 07/05/23 08:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
188			R359547	Rig out top half casing	21 hrs	187	Sun 07/05/23 08:15	Tue 09/05/23 09:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
189			R359547	Rig out rotating assembly	1 hr	188	Tue 09/05/23 09:15	Tue 09/05/23 10:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
190			R359547	Rig out Bottom casing	1 hr	189	Tue 09/05/23 10:15	Tue 09/05/23 11:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
191			R359547	Clean base	2.5 hrs	190	Tue 09/05/23 11:15	Tue 09/05/23 14:45	Operations	
192			R359547	Rig in new bottom casing	1 hr	191	Tue 09/05/23 14:45	Tue 09/05/23 15:45	L Jabane,C Lithemba,T Mmatli,J Mosenya	
193			R359547	Rig in rotating assembly	1 hr	192	Tue 09/05/23 15:45	Tue 09/05/23 16:45	L Jabane,C Lithemba,T Mmatli,J Mosenya	
194			R359547	Box up rotating assembly	2.5 hrs	193	Tue 09/05/23 16:45	Wed 10/05/23 08:15	L Jabane,C Lithemba	
195			R359547	Align bottom casing to assembly and dowl	4 hrs	194	Wed 10/05/23 08:15	Wed 10/05/23 13:15	L Jabane,C Lithemba	
196			R359547	Rig in new casing top half	1 hr	195	Wed 10/05/23 13:15	Wed 10/05/23 14:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
197			R359547	Rig in cross overduct	1 hr	196	Wed 10/05/23 14:15	Wed 10/05/23 15:15	L Jabane,C Lithemba,T Mmatli,J Mosenya	
198			R359547	Box up casing	1 hr	197	Wed 10/05/23 15:15	Wed 10/05/23 16:15	L Jabane,C Lithemba	
199			R359547	Box up inlet cones	3 hrs	198	Wed 10/05/23 16:15	Thu 11/05/23 08:15	L Jabane,C Lithemba	
200			R359547	Reassemble coupling & align	2.5 hrs	199	Thu 11/05/23 08:15	Thu 11/05/23 10:45	L Jabane,C Lithemba	
201			R359547	Refit instrumentation	5 hrs	200	Thu 11/05/23 10:45	Thu 11/05/23 16:45	INS-Util1	
202			R359547	Clear permit	0.25 hrs	201	Thu 11/05/23 16:45	Thu 11/05/23 17:00	L Jabane,C Lithemba	
203		30A2GB01	R359548	BASHUT-0016 - # A FLUE GAS BOOSTER FAN MOTOR - Change oil and clean air vents	10.25 hrs		Mon 08/05/23 09:00	Tue 09/05/23 09:15		
204			R359548	Make out permit	0.25 hrs	94SS	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
205			R359548	Accept permit	0.25 hrs	204	Mon 08/05/23 09:15	Mon 08/05/23 09:30	L Jabane,C Lithemba	
206			R359548	Open oil coolers for inspection/cleaning	1 hr	205	Mon 08/05/23 09:30	Mon 08/05/23 10:30	L Jabane,C Lithemba	
207			R359548	Drain flush and change oil	1 hr	206	Mon 08/05/23 10:30	Mon 08/05/23 11:30	L Jabane,C Lithemba	
208			R359548	Loosen motor covers	1 hr	207	Mon 08/05/23 11:30	Mon 08/05/23 13:30	L Jabane,C Lithemba	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
209			R359548	Remove covers	2.5 hrs	208	Mon 08/05/23 13:30	Mon 08/05/23 16:00	7.5Tcrane,T Mmatli,J Mosenya	
210			R359548	Close covers& box up	4 hrs	209	Mon 08/05/23 16:00	Tue 09/05/23 09:00	7.5Tcrane,L Jabane,C Lithemba,T Mmatli,J Mosenya	
211			R359548	Clear permit	0.25 hrs	210	Tue 09/05/23 09:00	Tue 09/05/23 09:15	L Jabane,C Lithemba	
212		30A2GB02	R359549	BASHUT-0017 - # B FLUE GAS BOOSTER FAN MOTOR - Change oil and clean air vents	5.75 hrs		Mon 08/05/23 10:30	Mon 08/05/23 17:15		
213			R359549	Make out permit	0.25 hrs	105SS	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Operations	
214			R359549	Accept permit	0.25 hrs	213	Mon 08/05/23 10:45	Mon 08/05/23 11:00	L Jabane,C Lithemba	
215			R359549	Open oil coolers for inspection/cleaning	1 hr	214	Mon 08/05/23 11:00	Mon 08/05/23 12:00	L Jabane,C Lithemba	
216			R359549	Drain flush and change oil	1 hr	215	Mon 08/05/23 12:00	Mon 08/05/23 14:00	L Jabane,C Lithemba	
217			R359549	Loosen motor covers	1 hr	216	Mon 08/05/23 14:00	Mon 08/05/23 15:00	L Jabane,C Lithemba	
218			R359549	Remove covers	1 hr	217	Mon 08/05/23 15:00	Mon 08/05/23 16:00	7.5Tcrane,T Mmatli,J Mosenya	
219			R359549	Close covers& box up	1 hr	218	Mon 08/05/23 16:00	Mon 08/05/23 17:00	7.5Tcrane,L Jabane,C Lithemba,T Mmatli,J Mosenya	
220			R359549	Clear permit	0.25 hrs	219	Mon 08/05/23 17:00	Mon 08/05/23 17:15	L Jabane,C Lithemba	
221		30A2GB01	R359550	BASHUT-0018 - # A FLUE GAS BOOSTER FAN - Change oil	105 hrs		Mon 08/05/23 09:00	Thu 18/05/23 15:00		
222			R359550	Make out permit	0.25 hrs	204SS	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
223			R359550	Accept permit	16.25 hrs	222	Mon 08/05/23 09:15	Tue 09/05/23 16:30	L Jabane,C Lithemba	
224			R359550	Open oil coolers for inspection/cleaning	15.75 hrs	223	Tue 09/05/23 16:30	Thu 11/05/23 11:15	L Jabane,C Lithemba	
225			R359550	Drain flush and change oil	24 hrs	224	Thu 11/05/23 11:15	Sat 13/05/23 16:15	L Jabane,C Lithemba	
226			R359550	Clean oil tanks	27 hrs	225	Sat 13/05/23 16:15	Tue 16/05/23 13:15	L Jabane,C Lithemba	
227			R359550	Refill oil	17.5 hrs	226	Tue 16/05/23 13:15	Thu 18/05/23 09:45	L Jabane,C Lithemba	
228			R359550	Close covers & box up	4 hrs	227	Thu 18/05/23 09:45	Thu 18/05/23 14:45	7.5Tcrane,L Jabane,C Lithemba,T Mmatli,J Mosenya	
229			R359550	Clear permit	0.25 hrs	228	Thu 18/05/23 14:45	Thu 18/05/23 15:00	L Jabane,C Lithemba	
230		30A2GB02	R359551	BASHUT-0019 - # B FLUE GAS BOOSTER FAN - Change oil	72.5 hrs		Mon 08/05/23 10:30	Mon 15/05/23 14:00		
231			R359551	Make out permit	0.25 hrs	213SS	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Operations	
232			R359551	Accept permit	0.25 hrs	231	Mon 08/05/23 10:45	Mon 08/05/23 11:00	L Jabane,C Lithemba	
233			R359551	Open oil coolers for inspection/cleaning	2.5 hrs	232,224	Thu 11/05/23 11:15	Thu 11/05/23 14:45	L Jabane,C Lithemba	
234			R359551	Drain flush and change oil	4 hrs	233	Thu 11/05/23 14:45	Fri 12/05/23 07:45	L Jabane,C Lithemba	
235			R359551	Clean oil tanks	27 hrs	234	Fri 12/05/23 07:45	Sun 14/05/23 15:45	L Jabane,C Lithemba	
236			R359551	Refill oil	4 hrs	235	Sun 14/05/23 15:45	Mon 15/05/23 08:45	7.5Tcrane,T Mmatli,J Mosenya	
237			R359551	Close covers& box up	4 hrs	236	Mon 15/05/23 08:45	Mon 15/05/23 13:45	7.5Tcrane,L Jabane,C Lithemba,T Mmatli,J Mosenya	
238			R359551	Clear permit	0.25 hrs	237	Mon 15/05/23 13:45	Mon 15/05/23 14:00	L Jabane,C Lithemba	
239			R359552	BASHUT-0020 - BAGHOUSE COMPRESSOR #2 - Replace compressor	80.75 hrs		Fri 05/05/23 18:00	Sun 14/05/23 07:45		
240			R359552	Make out permit	0.25 hrs	72	Fri 05/05/23 18:00	Sat 06/05/23 07:15	Operations	
241			R359552	Accept permit	0.25 hrs	240	Sat 06/05/23 07:15	Sat 06/05/23 07:30	FT-Util4	
242			R359552	Uncouple electrical components from Compressor	3 hrs	241	Sat 06/05/23 07:30	Sat 06/05/23 10:30	FT-Util4	
243			R359552	Loosen old compressor	4 hrs	242	Sat 06/05/23 10:30	Sat 06/05/23 15:30	FT-Util4	
244			R359552	Uncouple connection lines	4 hrs	243	Sat 06/05/23 15:30	Sun 07/05/23 08:30		
245			R359552	Remove old compressor	13 hrs	244	Sun 07/05/23 08:30	Mon 08/05/23 11:30	FT-Util4	
246			R359552	Clean base and install new compressor	50 hrs	245	Mon 08/05/23 11:30	Sat 13/05/23 11:30	FT-Util4	
247			R359552	Pipe installations (Modify to suite)	4 hrs	246	Sat 13/05/23 11:30	Sat 13/05/23 16:30	FT-Util4	
248			R359552	Connect electrical supply	1 hr	247	Sat 13/05/23 16:30	Sat 13/05/23 17:30	FT-Util4	
249			R359552	DCS functional checks and direction runs	1 hr	248	Sat 13/05/23 17:30	Sun 14/05/23 07:30	FT-Util4	
250			R359552	Clear permit	0.25 hrs	249	Sun 14/05/23 07:30	Sun 14/05/23 07:45	FT-Util4	
251				ELECTRICAL	76.5 hrs	57SS+1 d	Mon 08/05/23 09:15	Mon 15/05/23 16:45		
252		30A2GB01	R359724	BASHUT-0021 - # A FLUE GAS BOOSTER FAN - Services electric motors and panel componer	20.75 hrs		Mon 08/05/23 09:15	Wed 10/05/23 10:00		
253			R359724	Make out permit	0.25 hrs	222	Mon 08/05/23 09:15	Mon 08/05/23 09:30	Operations	
254			R359724	Accept permit	0.25 hrs	253	Mon 08/05/23 09:30	Mon 08/05/23 09:45	O Galeboe,O Chakama	
255			R359724	Risk assessment	0.25 hrs	254	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Galeboe,O Chakama	
256			R359724	Carry out electric isolation/elec clearance certificate	0.25 hrs	255	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Galeboe,O Chakama	
257			R359724	Drain oil and open fan cover	2 hrs	256	Mon 08/05/23 10:15	Mon 08/05/23 13:15	T Mmatli,G moiseraela,J Mosenya,L Jabane,C Lithemba	
258			R359724	Service field control panel	1 hr	257	Mon 08/05/23 13:15	Mon 08/05/23 14:15	O Galeboe,O Chakama	
259			R359724	Clean motor air vents	4 hrs	258	Mon 08/05/23 14:15	Tue 09/05/23 07:15	O Galeboe,O Chakama	
260			R359724	Check cable terminal leads for over heating	0.25 hrs	259	Tue 09/05/23 07:15	Tue 09/05/23 07:30	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
261			R359724	Tighten motor connections& gland intergrity	0.25 hrs	260	Tue 09/05/23 07:30	Tue 09/05/23 07:45	O Galeboe,O Chakama	
262			R359724	Check motor fans condition	4 hrs	261	Tue 09/05/23 07:45	Tue 09/05/23 11:45	O Galeboe,O Chakama	
263			R359724	Service auxiliary drives& their control panels	4 hrs	262	Tue 09/05/23 11:45	Tue 09/05/23 16:45	O Galeboe,O Chakama	
264			R359724	Close fan cover and fill oil	2 hrs	263	Tue 09/05/23 16:45	Wed 10/05/23 07:45	T Mmatli,G moiseraela,J Mosenya,L Jabane,C Lithemba	
265			R359724	Seal for moisture and dust.	1 hr	264	Wed 10/05/23 07:45	Wed 10/05/23 08:45	O Galeboe,O Chakama	
266			R359724	Confirm auxiliary drives protection settings	0.5 hrs	265	Wed 10/05/23 08:45	Wed 10/05/23 09:15	O Galeboe,O Chakama	
267			R359724	Housekeeping	0.5 hrs	266	Wed 10/05/23 09:15	Wed 10/05/23 09:45	O Galeboe,O Chakama	
268			R359724	Clear permit	0.25 hrs	267	Wed 10/05/23 09:45	Wed 10/05/23 10:00	O Galeboe,O Chakama	
269		30A2GB02	R359725	BASHUT-0023 - # B FLUE GAS BOOSTER FAN - Services electric motors and panel componer	20.75 hrs		Mon 08/05/23 09:30	Wed 10/05/23 10:15		
270			R359725	Make out permit	0.25 hrs	253	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Operations	
271			R359725	Risk assessment	0.25 hrs	270	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Galeboe,O Chakama	
272			R359725	Accept permit	0.25 hrs	271	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Galeboe,O Chakama	
273			R359725	Carry out electrical isolation/clearance certificate	0.25 hrs	272	Mon 08/05/23 10:15	Mon 08/05/23 10:30	O Galeboe,O Chakama	
274			R359725	Drain oil and open cover	2 hrs	273	Mon 08/05/23 10:30	Mon 08/05/23 13:30	T Mmatli,G moiseraela,J Mosenya,L Jabane,C Lithemba	
275			R359725	Service field control panel	1 hr	274	Mon 08/05/23 13:30	Mon 08/05/23 14:30	O Galeboe,O Chakama	
276			R359725	Clean motor air vents	4 hrs	275	Mon 08/05/23 14:30	Tue 09/05/23 07:30	O Galeboe,O Chakama	
277			R359725	Check cable terminal leads for over heating	0.25 hrs	276	Tue 09/05/23 07:30	Tue 09/05/23 07:45	O Galeboe,O Chakama	
278			R359725	Tighten motor connections& gland intergrity	0.25 hrs	277	Tue 09/05/23 07:45	Tue 09/05/23 08:00	O Galeboe,O Chakama	
279			R359725	Check motor fans condition	4 hrs	278	Tue 09/05/23 08:00	Tue 09/05/23 12:00	O Galeboe,O Chakama	
280			R359725	Service auxiliary drives& their control panels	4 hrs	279	Tue 09/05/23 12:00	Tue 09/05/23 17:00	O Galeboe,O Chakama	
281			R359725	Close fan cover and fill coil	2 hrs	280	Tue 09/05/23 17:00	Wed 10/05/23 08:00	T Mmatli,G moiseraela,J Mosenya,L Jabane,C Lithemba	
282			R359725	Seal for moisture and dust.	1 hr	281	Wed 10/05/23 08:00	Wed 10/05/23 09:00	O Galeboe,O Chakama	
283			R359725	Confirm auxiliary drives protection settings	0.5 hrs	282	Wed 10/05/23 09:00	Wed 10/05/23 09:30	O Galeboe,O Chakama	
284			R359725	Housekeeping	0.5 hrs	283	Wed 10/05/23 09:30	Wed 10/05/23 10:00	O Galeboe,O Chakama	
285			R359725	Clear permit	0.25 hrs	284	Wed 10/05/23 10:00	Wed 10/05/23 10:15	O Galeboe,O Chakama	
286		30A2GA01	R359726	BASHUT-0023 - SODA ASH SOLUTION RECYCLE PUMP - Services electric motors and panel c	5 hrs		Mon 08/05/23 09:45	Mon 08/05/23 15:45		
287			R359726	Make out permit	0.25 hrs	270	Mon 08/05/23 09:45	Mon 08/05/23 10:00	Operations	
288			R359726	Accept permit	0.25 hrs	287	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Galeboe,O Chakama	
289			R359726	Risk assessment	0.25 hrs	288	Mon 08/05/23 10:15	Mon 08/05/23 10:30	O Galeboe,O Chakama	
290			R359726	Carry out electrical isolation	0.25 hrs	289	Mon 08/05/23 10:30	Mon 08/05/23 10:45	O Galeboe,O Chakama	
291			R359726	Check loose connections in the panel	0.25 hrs	290	Mon 08/05/23 10:45	Mon 08/05/23 11:00	O Galeboe,O Chakama	
292			R359726	Service panel components& clear Dust	0.5 hrs	291	Mon 08/05/23 11:00	Mon 08/05/23 11:30	O Galeboe,O Chakama	
293			R359726	Service stop/start	0.25 hrs	292	Mon 08/05/23 11:30	Mon 08/05/23 11:45	O Galeboe,O Chakama	
294			R359726	Check motor fan condition	0.25 hrs	293	Mon 08/05/23 11:45	Mon 08/05/23 12:00	O Galeboe,O Chakama	
295			R359726	Check cable terminal leads for over heating	0.25 hrs	294	Mon 08/05/23 12:00	Mon 08/05/23 13:15	O Galeboe,O Chakama	
296			R359726	Tighten motor connections& gland intergrity	0.25 hrs	295	Mon 08/05/23 13:15	Mon 08/05/23 13:30	O Galeboe,O Chakama	
297			R359726	Seal for moisture and dust.	1 hr	296	Mon 08/05/23 13:30	Mon 08/05/23 14:30	O Galeboe,O Chakama	
298			R359726	Confirm correct protection settings	0.5 hrs	297	Mon 08/05/23 14:30	Mon 08/05/23 15:00	O Galeboe,O Chakama	
299			R359726	Housekeeping	0.5 hrs	298	Mon 08/05/23 15:00	Mon 08/05/23 15:30	O Galeboe,O Chakama	
300			R359726	Clear permit	0.25 hrs	299	Mon 08/05/23 15:30	Mon 08/05/23 15:45	O Galeboe,O Chakama	
301		30A2GA02	R359727	BASHUT-0024 - SODA ASH SOLUTION SUMP PUMP - Services electric motors and panel con	60.25 hrs		Mon 08/05/23 10:00	Sun 14/05/23 10:15		
302			R359727	Make out permit	0.25 hrs	287	Mon 08/05/23 10:00	Mon 08/05/23 10:15	Operations	
303			R359727	Accept permit	0.25 hrs	302	Mon 08/05/23 10:15	Mon 08/05/23 10:30	O Galeboe,O Chakama	
304			R359727	Risk assessment	0.25 hrs	303	Mon 08/05/23 10:30	Mon 08/05/23 10:45	O Galeboe,O Chakama	
305			R359727	Carry out electrical isolation	0.25 hrs	304	Mon 08/05/23 10:45	Mon 08/05/23 11:00	O Galeboe,O Chakama	
306			R359727	Fabricate stop/start canopy	24 hrs	305	Mon 08/05/23 11:00	Wed 10/05/23 16:00	K Keaketswe,K Raphiri	
307			R359727	Remove old start/start canopy	4 hrs	306	Wed 10/05/23 16:00	Thu 11/05/23 09:00	K Keaketswe,K Raphiri	
308			R359727	Replace with new canopy	23 hrs	307	Thu 11/05/23 09:00	Sat 13/05/23 12:00	K Keaketswe,K Raphiri	
309			R359727	Mount stop/start canopy	4 hrs	308	Sat 13/05/23 12:00	Sat 13/05/23 17:00	K Keaketswe,K Raphiri	
310			R359727	Check loose connections in the panel	0.25 hrs	309	Sat 13/05/23 17:00	Sat 13/05/23 17:15	O Galeboe,O Chakama	
311			R359727	Service panel components& clear Dust	0.5 hrs	310	Sat 13/05/23 17:15	Sat 13/05/23 17:45	O Galeboe,O Chakama	
312			R359727	Mount stop / start box and make connections	0.5 hrs	311	Sat 13/05/23 17:45	Sun 14/05/23 07:15	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
313			R359727	Check motor fan condition	0.25 hrs	312	Sun 14/05/23 07:15	Sun 14/05/23 07:30	O Galeboe,O Chakama	
314			R359727	Check cable terminal leads for over heating	0.25 hrs	313	Sun 14/05/23 07:30	Sun 14/05/23 07:45	O Galeboe,O Chakama	
315			R359727	Tighten motor connections& gland intergrity	0.25 hrs	314	Sun 14/05/23 07:45	Sun 14/05/23 08:00	O Galeboe,O Chakama	
316			R359727	Seal for moisture and dust.	1 hr	315	Sun 14/05/23 08:00	Sun 14/05/23 09:00	O Galeboe,O Chakama	
317			R359727	Confirm correct protection settings	0.5 hrs	316	Sun 14/05/23 09:00	Sun 14/05/23 09:30	O Galeboe,O Chakama	
318			R359727	Housekeeping	0.5 hrs	317	Sun 14/05/23 09:30	Sun 14/05/23 10:00	O Galeboe,O Chakama	
319			R359727	Clear permit	0.25 hrs	318	Sun 14/05/23 10:00	Sun 14/05/23 10:15	O Galeboe,O Chakama	
320		30A2GK01	R359728	BASHUT-0025 - SODA ASH SUMP AGITATOR - Services electric motors and panel componer	63.75 hrs		Mon 08/05/23 10:30	Sun 14/05/23 15:15		
321			R359728	Make out permit	0.25 hrs	303	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Operations	
322			R359728	Accept permit	0.25 hrs	321	Mon 08/05/23 10:45	Mon 08/05/23 11:00	O Galeboe,O Chakama	
323			R359728	Risk assessment	0.25 hrs	322	Mon 08/05/23 11:00	Mon 08/05/23 11:15	O Galeboe,O Chakama	
324			R359728	Fabricate stop/start canopy	1 hr	323	Mon 08/05/23 11:15	Mon 08/05/23 13:15	K Keaketswe,K Raphiri	
325			R359728	Remove old start/start canopy	24 hrs	324	Mon 08/05/23 13:15	Wed 10/05/23 17:15	K Keaketswe,K Raphiri	
326			R359728	Replace with new canopy	20 hrs	325	Wed 10/05/23 17:15	Fri 12/05/23 17:15	K Keaketswe,K Raphiri	
327			R359728	Mount stop/start canopy	13 hrs	326	Fri 12/05/23 17:15	Sun 14/05/23 09:15	K Keaketswe,K Raphiri	
328			R359728	Carry out electrical isolation	0.25 hrs	327	Sun 14/05/23 09:15	Sun 14/05/23 09:30	O Galeboe,O Chakama	
329			R359728	Check loose connections in the panel	0.25 hrs	328	Sun 14/05/23 09:30	Sun 14/05/23 09:45	O Galeboe,O Chakama	
330			R359728	Service panel components& clear dust	0.5 hrs	329	Sun 14/05/23 09:45	Sun 14/05/23 10:15	O Galeboe,O Chakama	
331			R359728	Mount stop / start and make connections	1 hr	330	Sun 14/05/23 10:15	Sun 14/05/23 11:15	O Galeboe,O Chakama	
332			R359728	Check motor cooling fan condition	0.25 hrs	331	Sun 14/05/23 11:15	Sun 14/05/23 11:30	O Galeboe,O Chakama	
333			R359728	Check cable terminal leads for over heating	0.25 hrs	332	Sun 14/05/23 11:30	Sun 14/05/23 11:45	O Galeboe,O Chakama	
334			R359728	Tighten motor connections& gland intergrity	0.25 hrs	333	Sun 14/05/23 11:45	Sun 14/05/23 12:00	O Galeboe,O Chakama	
335			R359728	Seal for moisture and dust	1 hr	334	Sun 14/05/23 12:00	Sun 14/05/23 14:00	O Galeboe,O Chakama	
336			R359728	Confirm correct protection settings	0.5 hrs	335	Sun 14/05/23 14:00	Sun 14/05/23 14:30	O Galeboe,O Chakama	
337			R359728	Housekeeping	0.5 hrs	336	Sun 14/05/23 14:30	Sun 14/05/23 15:00	O Galeboe,O Chakama	
338			R359728	Clear permit	0.25 hrs	337	Sun 14/05/23 15:00	Sun 14/05/23 15:15	O Galeboe,O Chakama	
339		30A2GA03	R359729	BASHUT-0026 - WATER CIRCULATION PUMP - Services electric motors and panel compone	75.25 hrs		Mon 08/05/23 10:30	Mon 15/05/23 16:45		
340			R359729	Make out permit	0.25 hrs	321SS	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Operations	
341			R359729	Accept permit	0.25 hrs	340	Mon 08/05/23 10:45	Mon 08/05/23 11:00	O Galeboe,O Chakama	
342			R359729	Risk assessment	0.25 hrs	341	Mon 08/05/23 11:00	Mon 08/05/23 11:15	O Galeboe,O Chakama	
343			R359729	Fabricate stop/start canopy	24 hrs	342	Mon 08/05/23 11:15	Wed 10/05/23 16:15	K Keaketswe,K Raphiri	
344			R359729	Remove old start/start canopy	4 hrs	343	Wed 10/05/23 16:15	Thu 11/05/23 09:15	K Keaketswe,K Raphiri	
345			R359729	Replace with new canopy	21 hrs	344	Thu 11/05/23 09:15	Sat 13/05/23 10:15	K Keaketswe,K Raphiri	
346			R359729	Mount stop/start canopy	21 hrs	345	Sat 13/05/23 10:15	Mon 15/05/23 11:15	K Keaketswe,K Raphiri	
347			R359729	Carry out electrical isolation	0.25 hrs	346	Mon 15/05/23 11:15	Mon 15/05/23 11:30	O Galeboe,O Chakama	
348			R359729	Check loose connections in the panel	0.25 hrs	347	Mon 15/05/23 11:30	Mon 15/05/23 11:45	O Galeboe,O Chakama	
349			R359729	Service panel components& clear dust	0.5 hrs	348	Mon 15/05/23 11:45	Mon 15/05/23 13:15	O Galeboe,O Chakama	
350			R359729	Mount stop / start nox & make connections	0.5 hrs	349	Mon 15/05/23 13:15	Mon 15/05/23 13:45	O Galeboe,O Chakama	
351			R359729	Check motor fan condition	0.25 hrs	350	Mon 15/05/23 13:45	Mon 15/05/23 14:00	O Galeboe,O Chakama	
352			R359729	Check cable terminal leads for over heating	0.25 hrs	351	Mon 15/05/23 14:00	Mon 15/05/23 14:15	O Galeboe,O Chakama	
353			R359729	Tighten motor connections& gland intergrity	0.25 hrs	352	Mon 15/05/23 14:15	Mon 15/05/23 14:30	O Galeboe,O Chakama	
354			R359729	Seal for moisture and dust	1 hr	353	Mon 15/05/23 14:30	Mon 15/05/23 15:30	O Galeboe,O Chakama	
355			R359729	Confirm correct protection settings	0.5 hrs	354	Mon 15/05/23 15:30	Mon 15/05/23 16:00	O Galeboe,O Chakama	
356			R359729	Housekeeping	0.5 hrs	355	Mon 15/05/23 16:00	Mon 15/05/23 16:30	O Galeboe,O Chakama	
357			R359729	Clear permit	0.25 hrs	356	Mon 15/05/23 16:30	Mon 15/05/23 16:45	O Galeboe,O Chakama	
358				INSTRUMENTATION	153 hrs	57SS+1 d	Thu 04/05/23 11:00	Fri 19/05/23 15:00		
359		30ZI301	R359730	BASHUT-0027 - # A FLUE GAS BOOSTER FAN - Vanes Actuator Overhaul	38.25 hrs		Thu 04/05/23 11:00	Mon 08/05/23 09:15		
360			R359730	Make out permit	0.25 hrs	77	Thu 04/05/23 11:00	Thu 04/05/23 11:15	Operations	
361			R359730	Accept permit	0.25 hrs	360	Thu 04/05/23 11:15	Thu 04/05/23 11:30	K Ntatane,O Gobotswang	
362			R359730	Risk assessment	1 hr	361	Thu 04/05/23 11:30	Thu 04/05/23 13:30	K Ntatane,O Gobotswang	
363			R359730	Remove actuator	4 hrs	362	Thu 04/05/23 13:30	Thu 04/05/23 17:30	K Ntatane,O Gobotswang,L Jabane,C Lithemba	
364			R359730	Overhaul actuator	8 hrs	363	Thu 04/05/23 17:30	Fri 05/05/23 15:30	K Ntatane,O Gobotswang	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
365			R359730	Install actuator	6 hrs	364	Fri 05/05/23 15:30	Sat 06/05/23 10:30	K Ntatane,O Gobotswang,L Jabane,C Lithemba	
366			R359730	Carry out inspection	4 hrs	365	Sat 06/05/23 10:30	Sat 06/05/23 15:30	J Baaisi	
367			R359730	Housekeeping	13.75 hrs	366	Sat 06/05/23 15:30	Mon 08/05/23 08:15	K Ntatane,O Gobotswang	
368			R359730	Clear permit	1 hr	367	Mon 08/05/23 08:15	Mon 08/05/23 09:15	K Ntatane,O Gobotswang	
369		30ZI401	R359731	BASHUT-0028 - # B FLUE GAS BOOSTER FAN - Vanes Actuator - Overhaul	36.75 hrs		Thu 04/05/23 13:30	Mon 08/05/23 09:15		
370			R359731	Make out permit	0.75 hrs	362	Thu 04/05/23 13:30	Thu 04/05/23 14:15	Operations	
371			R359731	Accept permit	0.5 hrs	370	Thu 04/05/23 14:15	Thu 04/05/23 14:45	K Ntatane,O Gobotswang	
372			R359731	Risk assessment	1 hr	371	Thu 04/05/23 14:45	Thu 04/05/23 15:45	K Ntatane,O Gobotswang	
373			R359731	Remove actuator	4 hrs	372	Thu 04/05/23 15:45	Fri 05/05/23 08:45	K Ntatane,O Gobotswang,L Jabane,C Lithemba	
374			R359731	Overhaul actuator	6 hrs	373	Fri 05/05/23 08:45	Fri 05/05/23 15:45	K Ntatane,O Gobotswang	
375			R359731	Install actuator	4 hrs	374	Fri 05/05/23 15:45	Sat 06/05/23 08:45	K Ntatane,O Gobotswang,L Jabane,C Lithemba	
376			R359731	Carry out inspection	4 hrs	375	Sat 06/05/23 08:45	Sat 06/05/23 13:45	J Baaisi	
377			R359731	Housekeeping	15.5 hrs	376	Sat 06/05/23 13:45	Mon 08/05/23 08:15	K Ntatane,O Gobotswang	
378			R359731	Clear permit	1 hr	377	Mon 08/05/23 08:15	Mon 08/05/23 09:15	K Ntatane,O Gobotswang	
379		30A2GB01	R359732	BASHUT-0029 - # A FLUE GAS BOOSTER FAN - Service all instruments & trip check	34.75 hrs		Fri 05/05/23 08:45	Mon 08/05/23 14:30		
380			R359732	Make out permit	0.75 hrs	373	Fri 05/05/23 08:45	Fri 05/05/23 09:30	Operations	
381			R359732	Accept permit	0.5 hrs	380	Fri 05/05/23 09:30	Fri 05/05/23 10:00	K Ntatane,O Gobotswang	
382			R359732	Risk assessment	1 hr	381	Fri 05/05/23 10:00	Fri 05/05/23 11:00	K Ntatane,O Gobotswang	
383			R359732	Clean out panel	4 hrs	382	Fri 05/05/23 11:00	Fri 05/05/23 16:00	K Ntatane,O Gobotswang	
384			R359732	Function/trip check	2 hrs	383	Fri 05/05/23 16:00	Fri 05/05/23 18:00	K Ntatane,O Gobotswang	
385			R359732	Carry out inspection	21.5 hrs	384	Sat 06/05/23 07:00	Mon 08/05/23 08:30	K Ntatane,O Gobotswang	
386			R359732	Housekeeping	4 hrs	385	Mon 08/05/23 08:30	Mon 08/05/23 13:30	K Ntatane,O Gobotswang	
387			R359732	Clear permit	1 hr	386	Mon 08/05/23 13:30	Mon 08/05/23 14:30	K Ntatane,O Gobotswang	
388		30A2GB02	R359733	BASHUT-0030 - # B FLUE GAS BOOSTER FAN - Service all instruments & trip check	35.25 hrs		Mon 08/05/23 13:30	Fri 12/05/23 07:45		
389			R359733	Make out permit	0.75 hrs	382,386	Mon 08/05/23 13:30	Mon 08/05/23 14:15	Operations	
390			R359733	Risk assessment	1 hr	389	Mon 08/05/23 14:15	Mon 08/05/23 15:15	K Ntatane,O Gobotswang	
391			R359733	Accept permit	0.5 hrs	390	Mon 08/05/23 15:15	Mon 08/05/23 15:45	K Ntatane,O Gobotswang	
392			R359733	Clean out panel	4 hrs	391	Mon 08/05/23 15:45	Tue 09/05/23 08:45	K Ntatane,O Gobotswang	
393			R359733	Function/trip check	2 hrs	392	Tue 09/05/23 08:45	Tue 09/05/23 10:45	K Ntatane,O Gobotswang	
394			R359733	Carry out inspection	4 hrs	393	Tue 09/05/23 10:45	Tue 09/05/23 15:45	K Ntatane,O Gobotswang	
395			R359733	Housekeeping	22 hrs	394	Tue 09/05/23 15:45	Thu 11/05/23 17:45	K Ntatane,O Gobotswang	
396			R359733	Clear permit	1 hr	395	Thu 11/05/23 17:45	Fri 12/05/23 07:45	K Ntatane,O Gobotswang	
397		30ZI401	R359734	BASHUT-0031 - SOFTENED WATER TO So2 PLANT - Replace flow meter	29.75 hrs		Fri 12/05/23 07:45	Mon 15/05/23 07:30		
398			R359734	Make out permit	0.75 hrs	396	Fri 12/05/23 07:45	Fri 12/05/23 08:30	Operations	
399			R359734	Accept permit	0.5 hrs	398	Fri 12/05/23 08:30	Fri 12/05/23 09:00	L Jabane,C Lithemba	
400			R359734	Risk assessment	2.5 hrs	399	Fri 12/05/23 09:00	Fri 12/05/23 11:30	L Jabane,C Lithemba	
401			R359734	Remove old valves	6 hrs	400	Fri 12/05/23 11:30	Sat 13/05/23 07:30	L Jabane,C Lithemba	
402			R359734	Replace valves	8 hrs	401	Sat 13/05/23 07:30	Sat 13/05/23 16:30	L Jabane,C Lithemba	
403			R359734	Replace meter	4 hrs	402	Sat 13/05/23 16:30	Sun 14/05/23 09:30	L Jabane,C Lithemba	
404			R359734	Box up	6 hrs	403	Sun 14/05/23 09:30	Sun 14/05/23 16:30	L Jabane,C Lithemba	
405			R359734	Housekeeping	1 hr	404	Sun 14/05/23 16:30	Sun 14/05/23 17:30	L Jabane,C Lithemba	
406			R359734	Clear permit	1 hr	405	Sun 14/05/23 17:30	Mon 15/05/23 07:30	L Jabane,C Lithemba	
407		30A6J01-M01	R359735	BASHUT-0032 - SODA ASH SOLUTION SUMP BOX - Replace soda ash solution sump enclosure	75.5 hrs		Fri 12/05/23 08:30	Fri 19/05/23 15:00		
408			R359735	Make out permit	0.75 hrs	398	Fri 12/05/23 08:30	Fri 12/05/23 09:15	Operations	
409			R359735	Accept permit	0.5 hrs	408	Fri 12/05/23 09:15	Fri 12/05/23 09:45	K Ntatane,O Gobotswang	
410			R359735	Risk assessment	1 hr	409	Fri 12/05/23 09:45	Fri 12/05/23 10:45	K Ntatane,O Gobotswang	
411			R359735	Mark instrument signal cables	8 hrs	410	Fri 12/05/23 10:45	Sat 13/05/23 08:45	K Ntatane,O Gobotswang	
412			R359735	Remove old junction box	6 hrs	411	Sat 13/05/23 08:45	Sat 13/05/23 15:45	K Ntatane,O Gobotswang	
413			R359735	Repair Junction box stand and bracket	12 hrs	412	Sat 13/05/23 15:45	Sun 14/05/23 17:45	K Raphiri,K Keaketswe	
414			R359735	Install Cable glands,DIN rail,connector blocks for new enclosure	24 hrs	413	Sun 14/05/23 17:45	Wed 17/05/23 10:45	K Ntatane,O Gobotswang	
415			R359735	Mount new enclosure	12 hrs	414	Wed 17/05/23 10:45	Thu 18/05/23 13:45	K Ntatane,O Gobotswang	
416			R359735	Reterminate Signal Cables	8 hrs	415	Thu 18/05/23 13:45	Fri 19/05/23 10:45	K Ntatane,O Gobotswang	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
417			R359735	Check all connections	2 hrs	416	Fri 19/05/23 10:45	Fri 19/05/23 13:45	K Ntatane,O Gobotswang	
418			R359735	Housekeeping	1 hr	417	Fri 19/05/23 13:45	Fri 19/05/23 14:45	K Ntatane,O Gobotswang	
419			R359735	Clear permit	0.25 hrs	418	Fri 19/05/23 14:45	Fri 19/05/23 15:00	K Ntatane,O Gobotswang	
420		AREA 30B		MEA SYSTEM ABSORBTION	156.5 hrs		Fri 05/05/23 09:00	Sat 20/05/23 16:30		
421				OPERATIONS	39.75 hrs		Fri 05/05/23 09:00	Tue 09/05/23 08:45		
422		30DFT01		BASHUT-0033 - SLOP SUMP - Clean (clean prior to cleaning)	39.75 hrs		Fri 05/05/23 09:00	Tue 09/05/23 08:45		
423				Make out permit	0.75 hrs	16	Fri 05/05/23 09:00	Fri 05/05/23 09:45	Operations	
424				Accept permit	0.5 hrs	423	Fri 05/05/23 09:45	Fri 05/05/23 10:15	Operations	
425				Pump sump empty	15 hrs	424	Fri 05/05/23 10:15	Sat 06/05/23 16:15	Operations	
426				Carry out risk assessment	2.5 hrs	425	Sat 06/05/23 16:15	Sun 07/05/23 07:45	Operations	
427				Open sump cover	4 hrs	426	Sun 07/05/23 07:45	Sun 07/05/23 11:45	Operations	
428				Pump out last bit of liquid	4 hrs	427	Sun 07/05/23 11:45	Sun 07/05/23 16:45	Operations	
429				Wash sump with clean water	4 hrs	428	Sun 07/05/23 16:45	Mon 08/05/23 09:45	Operations	
430				Remove all solids from the sump	8 hrs	429	Mon 08/05/23 09:45	Tue 09/05/23 07:45	Operations	
431				Clear permit	1 hr	430	Tue 09/05/23 07:45	Tue 09/05/23 08:45	Operations	
432				BASHUT-0034 - MEA CIRCULATION - (MEA circul & cooling water)	30 hrs		Fri 05/05/23 09:00	Mon 08/05/23 09:00		
433				Stop MEA plant	0 hrs	16	Fri 05/05/23 09:00	Fri 05/05/23 09:00	Operations	
434				Circulate MEA and cooling water	15 hrs	433	Fri 05/05/23 09:00	Sat 06/05/23 15:00	Operations	
435				Open MEA column doors for draught cooling	30 hrs	434SS	Fri 05/05/23 09:00	Mon 08/05/23 09:00	Operations	
436				MECHANICAL	126.5 hrs	4SS+3 da	Mon 08/05/23 09:00	Sat 20/05/23 16:30		
437		30B2DK01	R359736	BASHUT-0035 - CO2 ABSORBER - Inspection (High pressure wash - clean parking)	123.5 hrs		Mon 08/05/23 09:00	Sat 20/05/23 13:30		
438			R359736	Make out permit	0.75 hrs	435	Mon 08/05/23 09:00	Mon 08/05/23 09:45	Operations	
439			R359736	Accept permit	0.5 hrs	438	Mon 08/05/23 09:45	Mon 08/05/23 10:15	FT-Util15	
440			R359736	Open top and bottom manhole	6 hrs	439	Mon 08/05/23 10:15	Mon 08/05/23 17:15	FT-Util15	
441			R359736	Remove and clean packings	20 hrs	440	Mon 08/05/23 17:15	Wed 10/05/23 17:15	Operations	
442			R359736	Sign vessel entry permit	1 hr	441	Wed 10/05/23 17:15	Thu 11/05/23 07:15	Foreman	
443			R359736	Remove bottom tray to demister	10 hrs	442	Thu 11/05/23 07:15	Fri 12/05/23 07:15	FT-Util15	
444			R359736	Inspect demister pad	4 hrs	443	Fri 12/05/23 07:15	Fri 12/05/23 11:15	FT-Util15	
445			R359736	Box up botom tray to demister	28 hrs	444	Fri 12/05/23 11:15	Mon 15/05/23 09:15	FT-Util15	
446			R359736	Clean internals of absorber	14 hrs	445	Mon 15/05/23 09:15	Tue 16/05/23 14:15	Operations	
447			R359736	Replace packings	8 hrs	446	Tue 16/05/23 14:15	Wed 17/05/23 11:15	Operations	
448			R359736	Inspect and repair internals	30 hrs	447	Wed 17/05/23 11:15	Sat 20/05/23 11:15	Inspector	
449			R359736	Calibrate pressure gauges	1 hr	448	Sat 20/05/23 11:15	Sat 20/05/23 13:15	INS-Util4	
450			R359736	Clear permit	0.25 hrs	449	Sat 20/05/23 13:15	Sat 20/05/23 13:30	FT-Util15	
451		30B2EA01	R359737	BASHUT-0036 - LEAN RICH SOLUTION HEAT EXCHANGER - Change plates and gasket (back wash pip	82.25 hrs		Thu 11/05/23 07:15	Fri 19/05/23 09:30		
452			R359737	Make out permit	0.25 hrs	442	Thu 11/05/23 07:15	Thu 11/05/23 07:30	Operations	
453			R359737	Accept permit	0.25 hrs	452	Thu 11/05/23 07:30	Thu 11/05/23 07:45	FT-Util12	
454			R359737	Drain & isolate	1 hr	453	Thu 11/05/23 07:45	Thu 11/05/23 08:45	FT-Util12	
455			R359737	Open heat exchanger	2 hrs	454	Thu 11/05/23 08:45	Thu 11/05/23 10:45	FT-Util12	
456			R359737	Remove old plates	12 hrs	455	Thu 11/05/23 10:45	Fri 12/05/23 13:45	FT-Util12	
457			R359737	Clean end covers	16 hrs	456	Fri 12/05/23 13:45	Sun 14/05/23 08:45	FT-Util12	
458			R359737	Clean/wash plates (ensure right flow order(short and long])	14 hrs	457	Sun 14/05/23 08:45	Mon 15/05/23 13:45	FT-Util12	
459			R359737	Install new gaskets	14 hrs	458	Mon 15/05/23 13:45	Tue 16/05/23 17:45	FT-Util12	
460			R359737	Push plates into position	4 hrs	459	Tue 16/05/23 17:45	Wed 17/05/23 10:45	FT-Util12	
461			R359737	Push back end cover	10.5 hrs	460	Wed 17/05/23 10:45	Thu 18/05/23 11:15	FT-Util12	
462			R359737	Box up heat exchanger (compress to the right thickness)	8 hrs	461	Thu 18/05/23 11:15	Fri 19/05/23 09:15	FT-Util12	
463			R359737	Clear permitt	0.25 hrs	462	Fri 19/05/23 09:15	Fri 19/05/23 09:30	FT-Util12	
464		30B2EA01	R359738	BASHUT-0037 - LEAN COOLER HEAT EXCHANGER - Change plates and gasket (back wash pip	38.75 hrs		Tue 16/05/23 17:45	Sat 20/05/23 16:30		
465			R359738	Make out permit	0.25 hrs	459	Tue 16/05/23 17:45	Tue 16/05/23 18:00	Operations	
466			R359738	Accept permit	0.25 hrs	465	Tue 16/05/23 18:00	Wed 17/05/23 07:15	FT-Util12	
467			R359738	Drain & isolate	1 hr	466	Wed 17/05/23 07:15	Wed 17/05/23 08:15	FT-Util12	
468			R359738	Open heat exchanger	6 hrs	467	Wed 17/05/23 08:15	Wed 17/05/23 15:15	FT-Util12	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
469			R359738	Remove old plates	1 hr	468	Wed 17/05/23 15:15	Wed 17/05/23 16:15	FT-Util12	
470			R359738	Clean end covers	6 hrs	469	Wed 17/05/23 16:15	Thu 18/05/23 11:15	FT-Util12	
471			R359738	Clean/wash plates (ensure right flow order(short and long))	8 hrs	470	Thu 18/05/23 11:15	Fri 19/05/23 09:15	FT-Util12	
472			R359738	Install new gaskets	12 hrs	471	Fri 19/05/23 09:15	Sat 20/05/23 11:15	FT-Util12	
473			R359738	Push plates into position	1 hr	472	Sat 20/05/23 11:15	Sat 20/05/23 13:15	FT-Util12	
474			R359738	Push back end cover	1 hr	473	Sat 20/05/23 13:15	Sat 20/05/23 14:15	FT-Util12	
475			R359738	Box up heat exchanger (compress to the right thickness)	2 hrs	474	Sat 20/05/23 14:15	Sat 20/05/23 16:15	FT-Util12	
476			R359738	Clear permitt	0.25 hrs	475	Sat 20/05/23 16:15	Sat 20/05/23 16:30	FT-Util12	
477		30B2EA01	R359739	BASHUT-0038 - LAKE WATER COOLING LINE - Repair leak	122.25 hrs		Mon 08/05/23 09:45	Sat 20/05/23 12:00		
478			R359739	Make out permit	0.75 hrs	438	Mon 08/05/23 09:45	Mon 08/05/23 10:30	Operations	
479			R359739	Accept permit	0.5 hrs	478	Mon 08/05/23 10:30	Mon 08/05/23 11:00	FT-Util12	
480			R359739	Drain & isolate	4 hrs	479	Mon 08/05/23 11:00	Mon 08/05/23 16:00	FT-Util12	
481			R359739	Excavate to to expose leaking pipe	23 hrs	480	Mon 08/05/23 16:00	Thu 11/05/23 08:00	Civils	
482			R359739	Remove damaged line	14 hrs	481	Thu 11/05/23 08:00	Fri 12/05/23 12:00	FT-Util12,30Tcrane,T Mmatli	
483			R359739	Make up / repair leaking pipe	50 hrs	482	Fri 12/05/23 13:00	Wed 17/05/23 12:00	BM-Util1	
484			R359739	Replace repaired line	20 hrs	483	Wed 17/05/23 13:00	Fri 19/05/23 12:00	30Tcrane,T Mmatli,BM-Util1	
485			R359739	Commission line prior to close up.	4 hrs	484	Fri 19/05/23 13:00	Fri 19/05/23 17:00	FT-Util12	
486			R359739	Close excavated area after clearance has been given	5 hrs	485	Fri 19/05/23 17:00	Sat 20/05/23 11:00	FT-Util12	
487			R359739	Clear permitt	1 hr	486	Sat 20/05/23 11:00	Sat 20/05/23 12:00	FT-Util12	
488		30B2EA01	R359740	BASHUT-0039 - LEAN SOLUTION TANK- Replace Isolation valve	66.25 hrs		Fri 12/05/23 13:00	Fri 19/05/23 08:15		
489			R359740	Make out permit	0.75 hrs	482	Fri 12/05/23 13:00	Fri 12/05/23 13:45	Operations	
490			R359740	Accept permit	0.5 hrs	489	Fri 12/05/23 13:45	Fri 12/05/23 14:15	FT-Util12	
491			R359740	Drain & isolate	24 hrs	490	Fri 12/05/23 14:15	Mon 15/05/23 07:15	FT-Util12	
492			R359740	Loosen and remove Isolation Valve	14 hrs	491	Mon 15/05/23 07:15	Tue 16/05/23 11:15	FT-Util12	
493			R359740	Install new Isolation Valve	26 hrs	492	Tue 16/05/23 11:15	Fri 19/05/23 07:15	FT-Util12	
494			R359740	Clear permitt	1 hr	493	Fri 19/05/23 07:15	Fri 19/05/23 08:15	FT-Util12	
495		30B2EA01	R359741	BASHUT-0040 - LEAN SOLUTION TANK- Replace leaking roof	85.25 hrs		Mon 08/05/23 16:00	Wed 17/05/23 10:15		
496			R359741	Make out permit	0.25 hrs	480	Mon 08/05/23 16:00	Mon 08/05/23 16:15	Operations	
497			R359741	Accept permit	0.25 hrs	496	Mon 08/05/23 16:15	Mon 08/05/23 16:30	FT-Util12	
498			R359741	Pre-Fabricate Roof	0 hrs	496FF	Mon 08/05/23 16:15	Mon 08/05/23 16:15	FT-Util12	
499			R359741	Erect scaffold to remove leaking roof	10 hrs	498,497	Mon 08/05/23 16:30	Tue 09/05/23 16:30	FT-Util12	
500			R359741	Rig out old roof	4 hrs	499	Tue 09/05/23 16:30	Wed 10/05/23 09:30	FT-Util12	
501			R359741	Clean tank connection to roof prior to welding of new roof	8 hrs	500	Wed 10/05/23 09:30	Thu 11/05/23 07:30	FT-Util12	
502			R359741	Rig into position new roof	20.5 hrs	501	Thu 11/05/23 07:30	Sat 13/05/23 08:00	FT-Util12	
503			R359741	Align and weld into position new roof	42 hrs	502	Sat 13/05/23 08:00	Wed 17/05/23 10:00	FT-Util12	
504			R359741	NDT welds	20 hrs	503FF	Mon 15/05/23 10:00	Wed 17/05/23 10:00	FT-Util12	
505			R359741	Clear permitt	0.25 hrs	500,501,	Wed 17/05/23 10:00	Wed 17/05/23 10:15	FT-Util12	
506		30B2EA01	R359742	BASHUT-0041 - MEA CONCENTRATION PUMP - Repair base	101.5 hrs		Mon 08/05/23 09:00	Thu 18/05/23 10:30		
507			R359742	Make out permit	0.25 hrs	435	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
508			R359742	Accept permit	0.25 hrs	507	Mon 08/05/23 09:15	Mon 08/05/23 09:30	FT-Util12	
509			R359742	Pre-Fabricate new base frame	0 hrs	508	Mon 08/05/23 09:30	Mon 08/05/23 09:30	FT-Util12	
510			R359742	Disconnect and remove existing pump	4 hrs	509	Mon 08/05/23 09:30	Mon 08/05/23 14:30	FT-Util12	
511			R359742	Repair existing concrete base	50 hrs	510	Mon 08/05/23 14:30	Sat 13/05/23 14:30	FT-Util12	
512			R359742	Replace new pump base frame	17.75 hrs	511	Sat 13/05/23 14:30	Mon 15/05/23 11:15	FT-Util12	
513			R359742	Lift and install new pump	26 hrs	512	Mon 15/05/23 11:15	Thu 18/05/23 07:15	FT-Util12	
514			R359742	Connect pump to motor	1 hr	513	Thu 18/05/23 07:15	Thu 18/05/23 08:15	FT-Util12	
515			R359742	Direction test.	2 hrs	514	Thu 18/05/23 08:15	Thu 18/05/23 10:15	FT-Util12	
516			R359742	Clear permitt	0.25 hrs	515	Thu 18/05/23 10:15	Thu 18/05/23 10:30	FT-Util12	
517				ELECTRICAL	19.25 hrs	45S+3 da	Sat 06/05/23 10:00	Mon 08/05/23 09:15		
518		30B2GA07	R359743	BASHUT-0042 - DISPOSAL PUMP - Carry out electrical maintenance	5 hrs		Sat 06/05/23 10:00	Sat 06/05/23 16:00		
519			R359743	Make Out Permit	0.25 hrs	433	Sat 06/05/23 10:00	Sat 06/05/23 10:15	Operations	
520			R359743	Accept Permit	0.25 hrs	519	Sat 06/05/23 10:15	Sat 06/05/23 10:30	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
521			R359743	Risk assessment	0.25 hrs	520	Sat 06/05/23 10:30	Sat 06/05/23 10:45	O Galeboe,O Chakama	
522			R359743	Carry Out Electrical Isolation	0.25 hrs	521	Sat 06/05/23 10:45	Sat 06/05/23 11:00	O Galeboe,O Chakama	
523			R359743	Check Loose Connections In The Panel	0.25 hrs	522	Sat 06/05/23 11:00	Sat 06/05/23 11:15	O Galeboe,O Chakama	
524			R359743	Service Panel Components& Clear Dust	0.5 hrs	523	Sat 06/05/23 11:15	Sat 06/05/23 11:45	O Galeboe,O Chakama	
525			R359743	Service Stop/Start	0.25 hrs	524	Sat 06/05/23 11:45	Sat 06/05/23 12:00	O Galeboe,O Chakama	
526			R359743	Check Motor Fan Condition	0.25 hrs	525	Sat 06/05/23 12:00	Sat 06/05/23 13:15	O Galeboe,O Chakama	
527			R359743	Check Cable Terminal Leads For Over Heating	0.25 hrs	526	Sat 06/05/23 13:15	Sat 06/05/23 13:30	O Galeboe,O Chakama	
528			R359743	Tighten Motor Connections& Gland Intergrity	0.25 hrs	527	Sat 06/05/23 13:30	Sat 06/05/23 13:45	O Galeboe,O Chakama	
529			R359743	Seal For Moisture And Dust.	1 hr	528	Sat 06/05/23 13:45	Sat 06/05/23 14:45	O Galeboe,O Chakama	
530			R359743	Confirm Correct Protection Settings	0.5 hrs	529	Sat 06/05/23 14:45	Sat 06/05/23 15:15	O Galeboe,O Chakama	
531			R359743	Housekeeping	0.5 hrs	530	Sat 06/05/23 15:15	Sat 06/05/23 15:45	O Galeboe,O Chakama	
532			R359743	Clear Permit	0.25 hrs	531	Sat 06/05/23 15:45	Sat 06/05/23 16:00	O Galeboe,O Chakama	
533		30B2GA06	R359744	BASHUT-0043 - FILTER FEED PUMP - Carry out electrical maintenance	5 hrs		Sat 06/05/23 16:00	Sun 07/05/23 10:00		
534			R359744	Make Out Permit	0.25 hrs	532	Sat 06/05/23 16:00	Sat 06/05/23 16:15	Operations	
535			R359744	Accept Permit	0.25 hrs	534	Sat 06/05/23 16:15	Sat 06/05/23 16:30	O Galeboe,O Chakama	
536			R359744	Risk assessment	0.25 hrs	535	Sat 06/05/23 16:30	Sat 06/05/23 16:45	O Galeboe,O Chakama	
537			R359744	Carry Out Electrical Isolation	0.25 hrs	536	Sat 06/05/23 16:45	Sat 06/05/23 17:00	O Galeboe,O Chakama	
538			R359744	Check Loose Connections In The Panel	0.25 hrs	537	Sat 06/05/23 17:00	Sat 06/05/23 17:15	O Galeboe,O Chakama	
539			R359744	Service Panel Components & Clear Dust	0.5 hrs	538	Sat 06/05/23 17:15	Sat 06/05/23 17:45	O Galeboe,O Chakama	
540			R359744	Service Stop/Start	0.25 hrs	539	Sat 06/05/23 17:45	Sat 06/05/23 18:00	O Galeboe,O Chakama	
541			R359744	Check Motor Fan Condition	0.25 hrs	540	Sat 06/05/23 18:00	Sun 07/05/23 07:15	O Galeboe,O Chakama	
542			R359744	Check Cable Terminal Leads For Over Heating	0.25 hrs	541	Sun 07/05/23 07:15	Sun 07/05/23 07:30	O Galeboe,O Chakama	
543			R359744	Tighten Motor Connections& Gland Intergrity	0.25 hrs	542	Sun 07/05/23 07:30	Sun 07/05/23 07:45	O Galeboe,O Chakama	
544			R359744	Seal For Moisture And Dust.	1 hr	543	Sun 07/05/23 07:45	Sun 07/05/23 08:45	O Galeboe,O Chakama	
545			R359744	Confirm Correct Protection Settings	0.5 hrs	544	Sun 07/05/23 08:45	Sun 07/05/23 09:15	O Galeboe,O Chakama	
546			R359744	Housekeeping	0.5 hrs	545	Sun 07/05/23 09:15	Sun 07/05/23 09:45	O Galeboe,O Chakama	
547			R359744	Clear Permit	0.25 hrs	546	Sun 07/05/23 09:45	Sun 07/05/23 10:00	O Galeboe,O Chakama	
548		30B2GA01	R359745	BASHUT-0044 - LEAN SOLUTION PUMP A - Carry out electrical maintenance	5 hrs		Sat 06/05/23 16:15	Sun 07/05/23 10:15		
549			R359745	Services Electric Motor And Panel Components	0 hrs	534	Sat 06/05/23 16:15	Sat 06/05/23 16:15		
550			R359745	Make Out Permit	0.25 hrs	549	Sat 06/05/23 16:15	Sat 06/05/23 16:30	Operations	
551			R359745	Accept Permit	0.25 hrs	550	Sat 06/05/23 16:30	Sat 06/05/23 16:45	O Galeboe,O Chakama	
552			R359745	Risk assessment	0.25 hrs	551	Sat 06/05/23 16:45	Sat 06/05/23 17:00	O Galeboe,O Chakama	
553			R359745	Carry Out Electrical Isolation	0.25 hrs	552	Sat 06/05/23 17:00	Sat 06/05/23 17:15	O Galeboe,O Chakama	
554			R359745	Check Loose Connections In The Panel	0.25 hrs	553	Sat 06/05/23 17:15	Sat 06/05/23 17:30	O Galeboe,O Chakama	
555			R359745	Service Panel Components& Clear Dust	0.5 hrs	554	Sat 06/05/23 17:30	Sat 06/05/23 18:00	O Galeboe,O Chakama	
556			R359745	Service Stop/Start	0.25 hrs	555	Sat 06/05/23 18:00	Sun 07/05/23 07:15	O Galeboe,O Chakama	
557			R359745	Check Motor Fan Condition	0.25 hrs	556	Sun 07/05/23 07:15	Sun 07/05/23 07:30	O Galeboe,O Chakama	
558			R359745	Check Cable Terminal Leads For Over Heating	0.25 hrs	557	Sun 07/05/23 07:30	Sun 07/05/23 07:45	O Galeboe,O Chakama	
559			R359745	Tighten Motor Connections& Gland Intergrity	0.25 hrs	558	Sun 07/05/23 07:45	Sun 07/05/23 08:00	O Galeboe,O Chakama	
560			R359745	Seal For Moisture And Dust.	1 hr	559	Sun 07/05/23 08:00	Sun 07/05/23 09:00	O Galeboe,O Chakama	
561			R359745	Confirm Correct Protection Settings	0.5 hrs	560	Sun 07/05/23 09:00	Sun 07/05/23 09:30	O Galeboe,O Chakama	
562			R359745	Housekeeping	0.5 hrs	561	Sun 07/05/23 09:30	Sun 07/05/23 10:00	O Galeboe,O Chakama	
563			R359745	Clear Permit	0.25 hrs	562	Sun 07/05/23 10:00	Sun 07/05/23 10:15	O Galeboe,O Chakama	
564		30B2GA02	R359746	BASHUT-0045 - RICH SOLUTION PUMP A - Carry out electrical maintenance	5 hrs		Sun 07/05/23 10:00	Sun 07/05/23 16:00		
565			R359746	Make Out Permit	0.25 hrs	562	Sun 07/05/23 10:00	Sun 07/05/23 10:15	Operations	
566			R359746	Accept Permit	0.25 hrs	565	Sun 07/05/23 10:15	Sun 07/05/23 10:30	O Galeboe,O Chakama	
567			R359746	Risk assessment	0.25 hrs	566	Sun 07/05/23 10:30	Sun 07/05/23 10:45	O Galeboe,O Chakama	
568			R359746	Carry Out Electrical Isolation	0.25 hrs	567	Sun 07/05/23 10:45	Sun 07/05/23 11:00	O Galeboe,O Chakama	
569			R359746	Check Loose Connections In The Panel	0.25 hrs	568	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Galeboe,O Chakama	
570			R359746	Service Panel Components& Clear Dust	0.5 hrs	569	Sun 07/05/23 11:15	Sun 07/05/23 11:45	O Galeboe,O Chakama	
571			R359746	Service Stop/Start	0.25 hrs	570	Sun 07/05/23 11:45	Sun 07/05/23 12:00	O Galeboe,O Chakama	
572			R359746	Check Motor Fan Condition	0.25 hrs	571	Sun 07/05/23 12:00	Sun 07/05/23 13:15	O Galeboe,O Chakama	

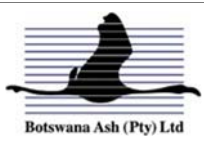


ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
573			R359746	Check Cable Terminal Leads For Over Heating	0.25 hrs	572	Sun 07/05/23 13:15	Sun 07/05/23 13:30	O Galeboe,O Chakama	
574			R359746	Tighten Motor Connections& Gland Intergrity	0.25 hrs	573	Sun 07/05/23 13:30	Sun 07/05/23 13:45	O Galeboe,O Chakama	
575			R359746	Seal For Moisture And Dust.	1 hr	574	Sun 07/05/23 13:45	Sun 07/05/23 14:45	O Galeboe,O Chakama	
576			R359746	Confirm Correct Protection Settings	0.5 hrs	575	Sun 07/05/23 14:45	Sun 07/05/23 15:15	O Galeboe,O Chakama	
577			R359746	Housekeeping	0.5 hrs	576	Sun 07/05/23 15:15	Sun 07/05/23 15:45	O Galeboe,O Chakama	
578			R359746	Clear Permit	0.25 hrs	577	Sun 07/05/23 15:45	Sun 07/05/23 16:00	O Galeboe,O Chakama	
579		30B2GA01B	R359747	BASHUT-0046 - LEAN SOLUTION PUMP B - Services electric motor and panel components	5 hrs		Sun 07/05/23 15:15	Mon 08/05/23 09:15		
580			R359747	Make out permit	0.25 hrs	576	Sun 07/05/23 15:15	Sun 07/05/23 15:30	Operations	
581			R359747	Accept permit	0.25 hrs	580	Sun 07/05/23 15:30	Sun 07/05/23 15:45	O Galeboe,O Chakama	
582			R359747	Risk assessment	0.25 hrs	581	Sun 07/05/23 15:45	Sun 07/05/23 16:00	O Galeboe,O Chakama	
583			R359747	Carry out electrical isolation	0.25 hrs	582	Sun 07/05/23 16:00	Sun 07/05/23 16:15	O Galeboe,O Chakama	
584			R359747	Check loose connections in the panel	0.25 hrs	583	Sun 07/05/23 16:15	Sun 07/05/23 16:30	O Galeboe,O Chakama	
585			R359747	Service panel components& Clear dust	0.5 hrs	584	Sun 07/05/23 16:30	Sun 07/05/23 17:00	O Galeboe,O Chakama	
586			R359747	Service Stop/start	0.25 hrs	585	Sun 07/05/23 17:00	Sun 07/05/23 17:15	O Galeboe,O Chakama	
587			R359747	Check motor fan condition	0.25 hrs	586	Sun 07/05/23 17:15	Sun 07/05/23 17:30	O Galeboe,O Chakama	
588			R359747	Check cable terminal leads for over heating	0.25 hrs	587	Sun 07/05/23 17:30	Sun 07/05/23 17:45	O Galeboe,O Chakama	
589			R359747	Tighten Motor connections& Gland intergrity	0.25 hrs	588	Sun 07/05/23 17:45	Sun 07/05/23 18:00	O Galeboe,O Chakama	
590			R359747	Seal for Moisture and dust.	1 hr	589	Sun 07/05/23 18:00	Mon 08/05/23 08:00	O Galeboe,O Chakama	
591			R359747	Confirm correct protection settings	0.5 hrs	590	Mon 08/05/23 08:00	Mon 08/05/23 08:30	O Galeboe,O Chakama	
592			R359747	Housekeeping	0.5 hrs	591	Mon 08/05/23 08:30	Mon 08/05/23 09:00	O Galeboe,O Chakama	
593			R359747	Clear permit	0.25 hrs	592	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Galeboe,O Chakama	
594		30B2GA02B	R359748	BASHUT-0047 - RICH SOLUTION PUMP B - Services electric motor and panel components	5 hrs		Sun 07/05/23 10:15	Sun 07/05/23 16:15		
595			R359748	Make out permit	0.25 hrs	565	Sun 07/05/23 10:15	Sun 07/05/23 10:30	Operations	
596			R359748	Accept permit	0.25 hrs	595	Sun 07/05/23 10:30	Sun 07/05/23 10:45	O Galeboe,O Chakama	
597			R359748	Risk assessment	0.25 hrs	596	Sun 07/05/23 10:45	Sun 07/05/23 11:00	O Galeboe,O Chakama	
598			R359748	Carry out electrical isolation	0.25 hrs	597	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Galeboe,O Chakama	
599			R359748	Check loose connections in the panel	0.25 hrs	598	Sun 07/05/23 11:15	Sun 07/05/23 11:30	O Galeboe,O Chakama	
600			R359748	Service panel components& Clear dust	0.5 hrs	599	Sun 07/05/23 11:30	Sun 07/05/23 12:00	O Galeboe,O Chakama	
601			R359748	Service Stop/start	0.25 hrs	600	Sun 07/05/23 12:00	Sun 07/05/23 13:15	O Galeboe,O Chakama	
602			R359748	Check motor fan condition	0.25 hrs	601	Sun 07/05/23 13:15	Sun 07/05/23 13:30	O Galeboe,O Chakama	
603			R359748	Check cable terminal leads for over heating	0.25 hrs	602	Sun 07/05/23 13:30	Sun 07/05/23 13:45	O Galeboe,O Chakama	
604			R359748	Tighten Motor connections& Gland intergrity	0.25 hrs	603	Sun 07/05/23 13:45	Sun 07/05/23 14:00	O Galeboe,O Chakama	
605			R359748	Seal for Moisture and dust.	1 hr	604	Sun 07/05/23 14:00	Sun 07/05/23 15:00	O Galeboe,O Chakama	
606			R359748	Confirm correct protection settings	0.5 hrs	605	Sun 07/05/23 15:00	Sun 07/05/23 15:30	O Galeboe,O Chakama	
607			R359748	Housekeeping	0.5 hrs	606	Sun 07/05/23 15:30	Sun 07/05/23 16:00	O Galeboe,O Chakama	
608			R359748	Clear permit	0.25 hrs	607	Sun 07/05/23 16:00	Sun 07/05/23 16:15	O Galeboe,O Chakama	
609		AREA 30C		MEA SYSTEM STRIPPING	141.25 hrs		Sat 06/05/23 10:00	Sat 20/05/23 11:15		
610				OPERATIONS	39.75 hrs		Mon 08/05/23 09:00	Fri 12/05/23 08:45		
611				BASHUT-0048 - PROCESS CONDENSATE SUMP - Clean	39.75 hrs		Mon 08/05/23 09:00	Fri 12/05/23 08:45		
612				Make out permit	0.75 hrs	435	Mon 08/05/23 09:00	Mon 08/05/23 09:45	Operations	
613				Accept permit	0.5 hrs	612	Mon 08/05/23 09:45	Mon 08/05/23 10:15	Operations	
614				Pump sump empty	15 hrs	613	Mon 08/05/23 10:15	Tue 09/05/23 16:15	Operations	
615				Carry out risk assessment	2.5 hrs	614	Tue 09/05/23 16:15	Wed 10/05/23 07:45	Operations	
616				Open sump cover	4 hrs	615	Wed 10/05/23 07:45	Wed 10/05/23 11:45	Operations	
617				Pump out last bit of liquid	4 hrs	616	Wed 10/05/23 11:45	Wed 10/05/23 16:45	Operations	
618				Wash sump with clean water	4 hrs	617	Wed 10/05/23 16:45	Thu 11/05/23 09:45	Operations	
619				Remove all solids from the sump	8 hrs	618	Thu 11/05/23 09:45	Fri 12/05/23 07:45	Operations	
620				Clear permit	1 hr	619	Fri 12/05/23 07:45	Fri 12/05/23 08:45	Operations	
621				MECHANICAL	141.25 hrs	4SS+3 da	Sat 06/05/23 10:00	Sat 20/05/23 11:15		
622		30C2DB01	R359749	BASHUT-0049 - CO2 STRIPPER - Inspection ,repairs	110.5 hrs		Mon 08/05/23 09:45	Fri 19/05/23 10:15		
623			R359749	Make out permit	0.25 hrs	612	Mon 08/05/23 09:45	Mon 08/05/23 10:00	Operations	
624			R359749	Accept permit	0.25 hrs	623	Mon 08/05/23 10:00	Mon 08/05/23 10:15	FT-Util2	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
625			R359749	Open tray manholes and inspect	6 hrs	624	Mon 08/05/23 10:15	Mon 08/05/23 17:15	FT-Util2	
626			R359749	Test for O2	0.5 hrs	625	Mon 08/05/23 17:15	Mon 08/05/23 17:45	Laboratory	
627			R359749	Install lights & vent fans	2 hrs	626	Mon 08/05/23 17:45	Tue 09/05/23 08:45	EL-Util3,T Mmatli,J Mosenya	
628			R359749	Get vessel vessel entry permit	0.25 hrs	627	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Foreman	
629			R359749	Enter vessel& open all internal manholes	2 hrs	628	Tue 09/05/23 09:00	Tue 09/05/23 11:00	FT-Util2	
630			R359749	Clean as required	6 hrs	629	Tue 09/05/23 11:00	Tue 09/05/23 18:00	Operations	
631			R359749	Inspect 20 trays of stripe	10 hrs	630	Wed 10/05/23 07:00	Wed 10/05/23 18:00	Inspector,Engineer	
632			R359749	Remove damaged trays plates	20 hrs	631SS	Wed 10/05/23 07:00	Thu 11/05/23 18:00	FT-Util2,BM-Util5	
633			R359749	Repair supports	36 hrs	632	Fri 12/05/23 07:00	Mon 15/05/23 14:00	BM-Util1	
634			R359749	Carry out repairs on damaged trays	24 hrs	632	Fri 12/05/23 07:00	Sun 14/05/23 11:00	BM-Util1	
635			R359749	Box up all internal manholes	16 hrs	634FF+1	Mon 15/05/23 14:00	Wed 17/05/23 09:00	FT-Util2	
636			R359749	Box up all external manholes	16 hrs	635	Wed 17/05/23 09:00	Thu 18/05/23 16:00	FT-Util2	
637			R359749	Remove lights and vent fans	1 hr	636	Thu 18/05/23 16:00	Thu 18/05/23 17:00	30Tcrane,EL-Util3,T Mmatli,J Mosenya	
638			R359749	Carry out pre start checks	4 hrs	637	Thu 18/05/23 17:00	Fri 19/05/23 10:00	Operations,FT-Util2	
639			R359749	Clear permit	0.25 hrs	638	Fri 19/05/23 10:00	Fri 19/05/23 10:15	FT-Util2	
640		30C2DB01	R359750	BASHUT-0050 - CO2 STRIPPER - Corrosion protection	90.75 hrs		Mon 08/05/23 10:00	Wed 17/05/23 10:45		
641			R359750	Make out permit	0.25 hrs	623	Mon 08/05/23 10:00	Mon 08/05/23 10:15	Operations	
642			R359750	Accept permit	0.25 hrs	641	Mon 08/05/23 10:15	Mon 08/05/23 10:30	FT-Util2	
643			R359750	Erect scaffold	6 hrs	642	Mon 08/05/23 10:30	Mon 08/05/23 17:30	FT-Util2	
644			R359750	Remove lagging	10 hrs	643	Mon 08/05/23 17:30	Tue 09/05/23 17:30	FT-Util2	
645			R359750	Clean surfaces	10 hrs	644	Tue 09/05/23 17:30	Wed 10/05/23 17:30	Laboratory	
646			R359750	Apply chemical protection (Corrosion protection)	30 hrs	645	Wed 10/05/23 17:30	Sat 13/05/23 17:30	EL-Util3,T Mmatli,J Mosenya	
647			R359750	Curing period	36 hrs	646	Sat 13/05/23 17:30	Mon 15/05/23 05:30	Foreman	
648			R359750	Re-install lagging	24 hrs	647SS	Sat 13/05/23 17:30	Tue 16/05/23 10:30	Operations	
649			R359750	Remove scaffolding	10 hrs	648	Tue 16/05/23 10:30	Wed 17/05/23 10:30	Inspector,Engineer	
650			R359750	Clear permit	0.25 hrs	649	Wed 17/05/23 10:30	Wed 17/05/23 10:45	FT-Util2	
651		30C2FF01	R359751	BASHUT-0051 - CO2 SEPARATOR - Inspection	103.5 hrs		Mon 08/05/23 09:00	Thu 18/05/23 13:30		
652			R359751	Erect scaffold (Prior)	2 hrs	612SS	Mon 08/05/23 09:00	Mon 08/05/23 11:00	RSC Scaffold	
653			R359751	Make out permit	0.75 hrs	652,620	Fri 12/05/23 08:45	Fri 12/05/23 09:30	Operations	
654			R359751	Accept permit	0.5 hrs	653	Fri 12/05/23 09:30	Fri 12/05/23 10:00	FT-Util4	
655			R359751	Sign vessel entry permit	2.5 hrs	654	Fri 12/05/23 10:00	Fri 12/05/23 13:30	Foreman	
656			R359751	Open inspection door	23 hrs	655	Fri 12/05/23 13:30	Sun 14/05/23 16:30	FT-Util4	
657			R359751	Inspect Demister	26 hrs	656	Sun 14/05/23 16:30	Wed 17/05/23 11:30	Reliability,FT-Util4	
658			R359751	Box up	4 hrs	657	Wed 17/05/23 11:30	Wed 17/05/23 16:30	FT-Util4	
659			R359751	Carry out prestart checks	4 hrs	658	Wed 17/05/23 16:30	Thu 18/05/23 09:30	Operations	
660			R359751	Clear permits	1 hr	659	Thu 18/05/23 09:30	Thu 18/05/23 10:30	FT-Util4	
661			R359751	Remove scaffold	2 hrs	660	Thu 18/05/23 10:30	Thu 18/05/23 13:30	RSC Scaffold	
662		30C2FB03	R359752	BASHUT-0052 - CO2 CONDENSATE COLLECTING TANK - Carry out inspection	129 hrs		Sun 07/05/23 13:15	Sat 20/05/23 11:15		
663			R359752	Erect scaffold (prior)	0 hrs	652	Mon 08/05/23 11:00	Mon 08/05/23 11:00	RSC Scaffold	
664			R359752	Remove Lagging (prior)	0 hrs	663	Mon 08/05/23 11:00	Mon 08/05/23 11:00		
665			R359752	Make out permit	0.25 hrs	664SS,66	Thu 18/05/23 10:30	Thu 18/05/23 10:45	Operations	
666			R359752	Accept permit	0.25 hrs	665	Thu 18/05/23 10:45	Thu 18/05/23 11:00	FT-Util4	
667			R359752	Remove instruments	16 hrs	666	Thu 18/05/23 11:00	Fri 19/05/23 18:00	INS-Util5	
668			R359752	Clean	24 hrs	572	Sun 07/05/23 13:15	Tue 09/05/23 17:15	Operations	
669			R359752	Inspect as per procedure	20 hrs	668	Tue 09/05/23 17:15	Thu 11/05/23 17:15	Inspector	
670			R359752	Repair if required	20 hrs	669	Thu 11/05/23 17:15	Sat 13/05/23 17:15	BM-Util1	
671			R359752	Weld repairs	20 hrs	670SS+1	Sat 13/05/23 07:15	Mon 15/05/23 07:15	BM-Util1	
672			R359752	Reservation checks	20 hrs	671	Mon 15/05/23 07:15	Wed 17/05/23 07:15	Operations	
673			R359752	Replace instruments	4 hrs	672,667	Fri 19/05/23 18:00	Sat 20/05/23 11:00	INS-Util5	
674			R359752	Clear permit	0.25 hrs	673	Sat 20/05/23 11:00	Sat 20/05/23 11:15	FT-Util4	
675			R359752	Replace lagging	0 hrs	674	Sat 20/05/23 11:15	Sat 20/05/23 11:15		
676			R359752	Remove scaffolding	0 hrs	675	Sat 20/05/23 11:15	Sat 20/05/23 11:15	RSC Scaffold	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										FINAL EXECUTION DOCUMENT
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
677		30C2FB03	R359754	BASHUT- 0054 - CONDENSATE WATER LINES - Repair water lines	117.25 hrs		Sat 06/05/23 10:00	Thu 18/05/23 07:15		
678			R359754	Pre-Manufacture water lines	0 hrs	7SS	Sat 06/05/23 10:00	Sat 06/05/23 10:00	Operations	
679			R359754	Make out permit	0.75 hrs	678	Sat 06/05/23 10:00	Sat 06/05/23 10:45	Operations	
680			R359754	Accept permit	17.5 hrs	679	Sat 06/05/23 10:45	Mon 08/05/23 08:15	FT-Util4	
681			R359754	Inspect lines for leaks	2 hrs	680	Mon 08/05/23 08:15	Mon 08/05/23 10:15	INS-Util5	
682			R359754	Replace water lines	96 hrs	680,678,	Mon 08/05/23 10:15	Wed 17/05/23 17:15	Operations	
683			R359754	Clear permit	1 hr	682	Wed 17/05/23 17:15	Thu 18/05/23 07:15	FT-Util4	
684		30C2EA01	R359755	BASHUT-0054 - # A REBOILER - Inspection & Cleaning	124.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 15:45		
685			R359755	Erect scaffold (prior)	0 hrs	7	Sat 06/05/23 10:00	Sat 06/05/23 10:00	RSC Scaffold	
686			R359755	Remove lagging prior	0 hrs	685	Sat 06/05/23 10:00	Sat 06/05/23 10:00		
687			R359755	Allow to cool and drain	36 hrs	686	Sat 06/05/23 10:00	Sun 07/05/23 22:00	Operations	
688			R359755	Make out permit	0.25 hrs	687	Sun 07/05/23 22:00	Mon 08/05/23 07:15	Operations	
689			R359755	Accept permit	0.25 hrs	688	Mon 08/05/23 07:15	Mon 08/05/23 07:30	FT-Util13	
690			R359755	Remove instruments	1 hr	689	Mon 08/05/23 07:30	Mon 08/05/23 08:30	INS-Util4	
691			R359755	Open manhole	12 hrs	690	Mon 08/05/23 08:30	Tue 09/05/23 10:30	FT-Util13	
692			R359755	Inspect tube bundle and clean if necessary	40 hrs	691	Tue 09/05/23 10:30	Sat 13/05/23 10:30	Operations,FT-Util13	
693			R359755	Clean faces and replace gaskets	3 hrs	692	Sat 13/05/23 10:30	Sat 13/05/23 14:30	FT-Util13	
694			R359755	Inspect as per procedure	1 hr	693	Sat 13/05/23 14:30	Sat 13/05/23 15:30	Inspector	
695			R359755	Repair as required	4 hrs	694	Sat 13/05/23 15:30	Sun 14/05/23 08:30	WD-Boil1,BM-Util2	
696			R359755	Weld repairs	20 hrs	695	Sun 14/05/23 08:30	Tue 16/05/23 08:30	WD-Boil1	
697			R359755	Final box up	24 hrs	696	Tue 16/05/23 08:30	Thu 18/05/23 13:30	FT-Util13	
698			R359755	Install instruments	1 hr	697	Thu 18/05/23 13:30	Thu 18/05/23 14:30	INS-Util1	
699			R359755	Reservation checks	1 hr	698	Thu 18/05/23 14:30	Thu 18/05/23 15:30	FT-Util13	
700			R359755	Clear permit	0.25 hrs	699	Thu 18/05/23 15:30	Thu 18/05/23 15:45	FT-Util13	
701			R359755	Remove scaffolding	0 hrs	699,700	Thu 18/05/23 15:45	Thu 18/05/23 15:45	RSC Scaffold	
702		30C2EA02	R359756	BASHUT-0056 - # B REBOILER - Inspection & Cleaning	124.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 15:45		
703			R359756	Erect scaffold (prior)	0 hrs	685SS	Sat 06/05/23 10:00	Sat 06/05/23 10:00	RSC Scaffold	
704			R359756	Remove lagging prior	0 hrs	703	Sat 06/05/23 10:00	Sat 06/05/23 10:00	FT-Util1	
705			R359756	Allow to cool and drain	36 hrs	704	Sat 06/05/23 10:00	Sun 07/05/23 22:00	Operations	
706			R359756	Make out permit	0.25 hrs	705	Sun 07/05/23 22:00	Mon 08/05/23 07:15	Operations	
707			R359756	Accept permit	0.25 hrs	706	Mon 08/05/23 07:15	Mon 08/05/23 07:30	FT-Util1	
708			R359756	Remove instruments	1 hr	707	Mon 08/05/23 07:30	Mon 08/05/23 08:30	INS-Util5	
709			R359756	Open manhole	12 hrs	708	Mon 08/05/23 08:30	Tue 09/05/23 10:30	FT-Util1	
710			R359756	Inspect tube bundle and clean if necessary	40 hrs	709	Tue 09/05/23 10:30	Sat 13/05/23 10:30	FT-Util6,Operations	
711			R359756	Clean faces and replace gaskets	3 hrs	710	Sat 13/05/23 10:30	Sat 13/05/23 14:30	FT-Util1	
712			R359756	Inspect as per procedure	1 hr	711	Sat 13/05/23 14:30	Sat 13/05/23 15:30	Inspector	
713			R359756	Repair as required	4 hrs	712	Sat 13/05/23 15:30	Sun 14/05/23 08:30	WD-Boil1,BM-Util1	
714			R359756	Weld repairs	20 hrs	713	Sun 14/05/23 08:30	Tue 16/05/23 08:30	WD-Boil1	
715			R359756	Final box up	24 hrs	714	Tue 16/05/23 08:30	Thu 18/05/23 13:30	FT-Util1	
716			R359756	Install instruments	1 hr	715	Thu 18/05/23 13:30	Thu 18/05/23 14:30	INS-Util5	
717			R359756	Reservation checks	1 hr	716	Thu 18/05/23 14:30	Thu 18/05/23 15:30	FT-Util1	
718			R359756	Clear permit	0.25 hrs	717	Thu 18/05/23 15:30	Thu 18/05/23 15:45	FT-Util1	
719			R359756	Remove scaffolding	0 hrs	718	Thu 18/05/23 15:45	Thu 18/05/23 15:45	RSC Scaffold	
720		30C2FB03	R359757	BASHUT- 0056 - MEA CONDENSATE ISOLATING VALVES - Replace	15.25 hrs		Thu 18/05/23 15:45	Sat 20/05/23 10:00		
721			R359757	Make out permit	0.75 hrs	718	Thu 18/05/23 15:45	Thu 18/05/23 16:30	Operations	
722			R359757	Accept permit	0.5 hrs	721	Thu 18/05/23 16:30	Thu 18/05/23 17:00	FT-Util4	
723			R359757	Remove existing isolating valves	6 hrs	722	Thu 18/05/23 17:00	Fri 19/05/23 12:00	T Mmatli	
724			R359757	Install new valves	7 hrs	723	Fri 19/05/23 12:00	Sat 20/05/23 09:00	Operations	
725			R359757	Clear permit	1 hr	724	Sat 20/05/23 09:00	Sat 20/05/23 10:00	FT-Util4	
726		30C2GB01	R359758	BASHUT-0057 - MEA C02 COMPRESSOR MOTOR - Clean air vents	9.25 hrs		Sat 06/05/23 10:00	Sun 07/05/23 09:15		
727			R359758	Make out permit	0.75 hrs	685	Sat 06/05/23 10:00	Sat 06/05/23 10:45	Operations	
728			R359758	Accept permit	0.5 hrs	727	Sat 06/05/23 10:45	Sat 06/05/23 11:15	EL-Util3	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
729			R359758	Clean air vents	6 hrs	728	Sat 06/05/23 11:15	Sun 07/05/23 07:15	EL-Util3	
730			R359758	Replace& box up covers	1 hr	729	Sun 07/05/23 07:15	Sun 07/05/23 08:15	FT-Util9,T Mmatli,J Mosenya	
731			R359758	Clear permit	1 hr	730	Sun 07/05/23 08:15	Sun 07/05/23 09:15	FT-Util9	
732		30C2GB01	R359759	BASHUT- 0058 - CO2 COMPRESSOR DISCHARGE - Inspect NRV	34.75 hrs		Sat 06/05/23 10:00	Tue 09/05/23 15:45		
733			R359759	Scaffold prior	6 hrs	685	Sat 06/05/23 10:00	Sat 06/05/23 17:00	T Mmatli,J Mosenya	
734			R359759	Make out permit	0.75 hrs	733	Sat 06/05/23 17:00	Sat 06/05/23 17:45	Operations	
735			R359759	Accept permit	0.5 hrs	734	Sat 06/05/23 17:45	Sun 07/05/23 07:15	EL-Util3	
736			R359759	Remove NRV	2.5 hrs	735	Sun 07/05/23 07:15	Sun 07/05/23 09:45	FT-Util5,T Mmatli,J Mosenya	
737			R359759	Inspect NRV	1 hr	736	Sun 07/05/23 09:45	Sun 07/05/23 10:45	Direct Engineering,Foreman	
738			R359759	Replace NRV (If required)	23 hrs	737	Sun 07/05/23 10:45	Tue 09/05/23 14:45	FT-Util5	
739			R359759	Clear permit	1 hr	738	Tue 09/05/23 14:45	Tue 09/05/23 15:45	FT-Util5,T Mmatli,J Mosenya	
740		30C2GB01	R359760	BASHUT - 0059 - MEA CO2 COMPRESSOR - Oil change	31.25 hrs		Sat 06/05/23 10:00	Tue 09/05/23 11:15		
741			R359760	Make out permit	0.75 hrs	733SS	Sat 06/05/23 10:00	Sat 06/05/23 10:45	Operations	
742			R359760	Accept permit	0.5 hrs	741	Sat 06/05/23 10:45	Sat 06/05/23 11:15	FT-Util1	
743			R359760	Oil change	28 hrs	742	Sat 06/05/23 11:15	Tue 09/05/23 09:15	Reliability	
744			R359760	Box up covers	1 hr	743	Tue 09/05/23 09:15	Tue 09/05/23 10:15	FT-Util1	
745			R359760	Clear permit	1 hr	744	Tue 09/05/23 10:15	Tue 09/05/23 11:15	FT-Util1	
746		30C2GB01	R359761	BASHUT-0060 - CO2 COMPRESSOR DISCHARGE SILENCER - Inspection	42 hrs		Sat 06/05/23 10:45	Wed 10/05/23 13:45		
747			R359761	Erect scaffolding (Prior)	6 hrs	741	Sat 06/05/23 10:45	Sat 06/05/23 17:45	RSC Scaffold	
748			R359761	Make out permit	0.75 hrs	747	Sat 06/05/23 17:45	Sun 07/05/23 07:30	Operations	
749			R359761	Accept permit	0.25 hrs	748	Sun 07/05/23 07:30	Sun 07/05/23 07:45	FT-Util7	
750			R359761	Remove discharge end compensator	2.5 hrs	749	Sun 07/05/23 07:45	Sun 07/05/23 10:15	30Tcrane,FT-Util7,T Mmatli,J Mosenya	
751			R359761	Inspect silencer internals	23 hrs	750	Sun 07/05/23 10:15	Tue 09/05/23 14:15	Inspector,FT-Util7	
752			R359761	Replace compensator	2.5 hrs	751	Tue 09/05/23 14:15	Tue 09/05/23 16:45	FT-Util7	
753			R359761	Clear permit	1 hr	752	Tue 09/05/23 16:45	Tue 09/05/23 17:45	FT-Util7	
754			R359761	Remove scaffolding	6 hrs	753	Tue 09/05/23 17:45	Wed 10/05/23 13:45	RSC Scaffold	
755		30C2GB01	R359762	BASHUT-0061 - CO2 COMPRESSOR SUCTION SILENCER - Inspection	26.5 hrs		Sat 06/05/23 17:45	Tue 09/05/23 14:15		
756			R359762	Erect scaffolding (Prior)	2 hrs	747	Sat 06/05/23 17:45	Sun 07/05/23 08:45	RSC Scaffold	
757			R359762	Make out permit	0.75 hrs	756	Sun 07/05/23 08:45	Sun 07/05/23 09:30	Operations	
758			R359762	Accept permit	0.5 hrs	757	Sun 07/05/23 09:30	Sun 07/05/23 10:00	FT-Util7	
759			R359762	Remove suction end compensator	9 hrs	758	Sun 07/05/23 10:00	Mon 08/05/23 09:00	30Tcrane,FT-Util7,T Mmatli,J Mosenya	
760			R359762	Inspect silencer internals	1 hr	759	Mon 08/05/23 09:00	Mon 08/05/23 10:00	Inspector,FT-Util7	
761			R359762	Replace compensator	4 hrs	760	Mon 08/05/23 10:00	Mon 08/05/23 15:00	FT-Util7	
762			R359762	Clear permit	1 hr	761	Mon 08/05/23 15:00	Mon 08/05/23 16:00	FT-Util7	
763			R359762	Remove scaffolding	8.25 hrs	762	Mon 08/05/23 16:00	Tue 09/05/23 14:15	RSC Scaffold	
764		AREA 30D		MEA SYSTEM RECLAIMER	95.25 hrs		Sun 07/05/23 05:00	Tue 16/05/23 13:15		
765				INSTRUMENTATION	95.25 hrs	4SS+3 da	Sun 07/05/23 05:00	Tue 16/05/23 13:15		
766		30D6LY006	R359914	BASUT-0062 - Co2 STRIPPER LEVEL CONTROL VALVE - Overhaul	95.25 hrs		Sun 07/05/23 05:00	Tue 16/05/23 13:15		
767			R359914	Make Out Permit	0.75 hrs	13,23SS	Sun 07/05/23 05:00	Sun 07/05/23 07:45	Operations	
768			R359914	Accept Permit	0.5 hrs	767	Sun 07/05/23 07:45	Sun 07/05/23 08:15	K Ntatane,O Gobotswang	
769			R359914	Risk assessment	1 hr	768	Sun 07/05/23 08:15	Sun 07/05/23 09:15	K Ntatane,O Gobotswang	
770			R359914	Disconnect Valve Instruments	8 hrs	769	Sun 07/05/23 09:15	Mon 08/05/23 07:15	K Ntatane,O Gobotswang	
771			R359914	Remove Valve	3 hrs	770	Mon 08/05/23 07:15	Mon 08/05/23 10:15	K Raphiri,K Keaketswe,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mos	
772			R359914	Transport To Workshop	1 hr	771	Mon 08/05/23 10:15	Mon 08/05/23 11:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
773			R359914	Overhaul Valve	30 hrs	772	Mon 08/05/23 11:15	Thu 11/05/23 11:15	K Ntatane,O Gobotswang	
774			R359914	Transport To Plant	1 hr	773	Thu 11/05/23 11:15	Thu 11/05/23 13:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
775			R359914	Install Valve	3 hrs	774	Thu 11/05/23 13:15	Thu 11/05/23 16:15	K Raphiri,K Keaketswe,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mos	
776			R359914	Reconnect Valve Instruments	13 hrs	775	Thu 11/05/23 16:15	Sat 13/05/23 08:15	K Ntatane,O Gobotswang	
777			R359914	Stroke Check Valve To Dcs	8 hrs	776	Sat 13/05/23 08:15	Sat 13/05/23 17:15	K Ntatane,O Gobotswang	
778			R359914	Carry Out Inspection	21 hrs	777	Sat 13/05/23 17:15	Tue 16/05/23 07:15	J Baaisi	
779			R359914	Housekeeping	4 hrs	778	Tue 16/05/23 07:15	Tue 16/05/23 11:15	K Ntatane,O Gobotswang	
780			R359914	Clear Permit	1 hr	779	Tue 16/05/23 11:15	Tue 16/05/23 13:15	K Ntatane,O Gobotswang	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
781				ELECTRICAL	10.75 hrs	4SS+3 da	Tue 09/05/23 08:45	Wed 10/05/23 09:30		
782		30D2GA01	R359915	BASHUT-0063 - MEA SLOP PUMP - Carry out electrical maintenance	5.25 hrs		Tue 09/05/23 08:45	Tue 09/05/23 15:00		
783			R359915	Make Out Permit	0.25 hrs	431	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Operations	
784			R359915	Accept Permit	0.25 hrs	783	Tue 09/05/23 09:00	Tue 09/05/23 09:15	O Chakama,O Galeboe	
785			R359915	Risk assessment	0.25 hrs	784	Tue 09/05/23 09:15	Tue 09/05/23 09:30	O Chakama,O Galeboe	
786			R359915	Carry Out Electrical Isolation	0.25 hrs	785	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Chakama,O Galeboe	
787			R359915	Check Loose Connections In The Panel	0.5 hrs	786	Tue 09/05/23 09:45	Tue 09/05/23 10:15	O Chakama,O Galeboe	
788			R359915	Service Panel Components& Clear Dust	0.5 hrs	787	Tue 09/05/23 10:15	Tue 09/05/23 10:45	O Chakama,O Galeboe	
789			R359915	Service Stop/Start	0.25 hrs	788	Tue 09/05/23 10:45	Tue 09/05/23 11:00	O Chakama,O Galeboe	
790			R359915	Check Motor Fan Condition	0.25 hrs	789	Tue 09/05/23 11:00	Tue 09/05/23 11:15	O Chakama,O Galeboe	
791			R359915	Check Cable Terminal Leads For Over Heating	0.25 hrs	790	Tue 09/05/23 11:15	Tue 09/05/23 11:30	O Chakama,O Galeboe	
792			R359915	Tighten Motor Connections& Gland Intergrity	0.25 hrs	791	Tue 09/05/23 11:30	Tue 09/05/23 11:45	O Chakama,O Galeboe	
793			R359915	Seal For Moisture And Dust.	1 hr	792	Tue 09/05/23 11:45	Tue 09/05/23 13:45	O Chakama,O Galeboe	
794			R359915	Confirm Correct Protection Settings	0.5 hrs	793	Tue 09/05/23 13:45	Tue 09/05/23 14:15	O Chakama,O Galeboe	
795			R359915	Housekeeping	0.5 hrs	794	Tue 09/05/23 14:15	Tue 09/05/23 14:45	O Chakama,O Galeboe	
796			R359915	Clear Permit	0.25 hrs	795	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Chakama,O Galeboe	
797		30D2GA02	R359918	BASHUT-0064 - MEA CONCENTRATED PUMP - Carry out electrical maintenance	5.25 hrs		Tue 09/05/23 09:45	Tue 09/05/23 16:00		
798			R359918	Make Out Permit	0.25 hrs	786	Tue 09/05/23 09:45	Tue 09/05/23 10:00	Operations	
799			R359918	Accept Permit	0.25 hrs	798	Tue 09/05/23 10:00	Tue 09/05/23 10:15	O Galeboe,O Chakama	
800			R359918	Risk assessment	0.25 hrs	799	Tue 09/05/23 10:15	Tue 09/05/23 10:30	O Galeboe,O Chakama	
801			R359918	Carry Out Electrical Isolation	0.25 hrs	800	Tue 09/05/23 10:30	Tue 09/05/23 10:45	O Galeboe,O Chakama	
802			R359918	Check Loose Connections In The Panel	0.5 hrs	801	Tue 09/05/23 10:45	Tue 09/05/23 11:15	O Galeboe,O Chakama	
803			R359918	Service Panel Components& Clear Dust	0.5 hrs	802	Tue 09/05/23 11:15	Tue 09/05/23 11:45	O Galeboe,O Chakama	
804			R359918	Service Stop/Start	0.25 hrs	803	Tue 09/05/23 11:45	Tue 09/05/23 12:00	O Galeboe,O Chakama	
805			R359918	Check Motor Fan Condition	0.25 hrs	804	Tue 09/05/23 12:00	Tue 09/05/23 13:15	O Galeboe,O Chakama	
806			R359918	Check Cable Terminal Leads For Over Heating	0.25 hrs	805	Tue 09/05/23 13:15	Tue 09/05/23 13:30	O Galeboe,O Chakama	
807			R359918	Tighten Motor Connections& Gland Intergrity	0.25 hrs	806	Tue 09/05/23 13:30	Tue 09/05/23 13:45	O Galeboe,O Chakama	
808			R359918	Seal For Moisture And Dust.	1 hr	807	Tue 09/05/23 13:45	Tue 09/05/23 14:45	O Galeboe,O Chakama	
809			R359918	Confirm Correct Protection Settings	0.5 hrs	808	Tue 09/05/23 14:45	Tue 09/05/23 15:15	O Galeboe,O Chakama	
810			R359918	Housekeeping	0.5 hrs	809	Tue 09/05/23 15:15	Tue 09/05/23 15:45	O Galeboe,O Chakama	
811			R359918	Clear Permit	0.25 hrs	810	Tue 09/05/23 15:45	Tue 09/05/23 16:00	O Galeboe,O Chakama	
812		30D2GA03	R359921	BASHUT-0065 - RECLAIMER BOTTOM PUMP - Carry out electrical maintenance	5.25 hrs		Tue 09/05/23 11:15	Tue 09/05/23 17:30		
813			R359921	Make Out Permit	0.25 hrs	802	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
814			R359921	Accept Permit	0.25 hrs	813	Tue 09/05/23 11:30	Tue 09/05/23 11:45	O Galeboe,O Chakama	
815			R359921	Risk assessment	0.25 hrs	814	Tue 09/05/23 11:45	Tue 09/05/23 12:00	O Galeboe,O Chakama	
816			R359921	Carry Out Electrical Isolation	0.25 hrs	815	Tue 09/05/23 12:00	Tue 09/05/23 13:15	O Galeboe,O Chakama	
817			R359921	Check Loose Connections In The Panel	0.5 hrs	816	Tue 09/05/23 13:15	Tue 09/05/23 13:45	O Galeboe,O Chakama	
818			R359921	Service Panel Components& Clear Dust	0.5 hrs	817	Tue 09/05/23 13:45	Tue 09/05/23 14:15	O Galeboe,O Chakama	
819			R359921	Service Stop/Start	0.25 hrs	818	Tue 09/05/23 14:15	Tue 09/05/23 14:30	O Galeboe,O Chakama	
820			R359921	Check Motor Fan Condition	0.25 hrs	819	Tue 09/05/23 14:30	Tue 09/05/23 14:45	O Galeboe,O Chakama	
821			R359921	Check Cable Terminal Leads For Over Heating	0.25 hrs	820	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Galeboe,O Chakama	
822			R359921	Tighten Motor Connections & Gland Intergrity	0.25 hrs	821	Tue 09/05/23 15:00	Tue 09/05/23 15:15	O Galeboe,O Chakama	
823			R359921	Seal For Moisture And Dust.	1 hr	822	Tue 09/05/23 15:15	Tue 09/05/23 16:15	O Galeboe,O Chakama	
824			R359921	Confirm Correct Protection Settings	0.5 hrs	823	Tue 09/05/23 16:15	Tue 09/05/23 16:45	O Galeboe,O Chakama	
825			R359921	Housekeeping	0.5 hrs	824	Tue 09/05/23 16:45	Tue 09/05/23 17:15	O Galeboe,O Chakama	
826			R359921	Clear Permit	0.25 hrs	825	Tue 09/05/23 17:15	Tue 09/05/23 17:30	O Galeboe,O Chakama	
827		30D2GA06	R359922	BASHUT-0066 - MEA DRUM PUMP - Carry out electrical maintenance	5.25 hrs		Tue 09/05/23 13:15	Wed 10/05/23 07:30		
828			R359922	Make Out Permit	0.25 hrs	816	Tue 09/05/23 13:15	Tue 09/05/23 13:30	Operations	
829			R359922	Accept Permit	0.25 hrs	828	Tue 09/05/23 13:30	Tue 09/05/23 13:45	O Galeboe,O Chakama	
830			R359922	Risk assessment	0.25 hrs	829	Tue 09/05/23 13:45	Tue 09/05/23 14:00	O Galeboe,O Chakama	
831			R359922	Carry Out Electrical Isolation	0.25 hrs	830	Tue 09/05/23 14:00	Tue 09/05/23 14:15	O Galeboe,O Chakama	
832			R359922	Check Loose Connections In The Panel	0.5 hrs	831	Tue 09/05/23 14:15	Tue 09/05/23 14:45	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
833			R359922	Service Panel Components& Clear Dust	0.5 hrs	832	Tue 09/05/23 14:45	Tue 09/05/23 15:15	O Galeboe,O Chakama	
834			R359922	Service Stop/Start	0.25 hrs	833	Tue 09/05/23 15:15	Tue 09/05/23 15:30	O Galeboe,O Chakama	
835			R359922	Check Motor Fan Condition	0.25 hrs	834	Tue 09/05/23 15:30	Tue 09/05/23 15:45	O Galeboe,O Chakama	
836			R359922	Check Cable Terminal Leads For Over Heating	0.25 hrs	835	Tue 09/05/23 15:45	Tue 09/05/23 16:00	O Galeboe,O Chakama	
837			R359922	Tighten Motor Connections& Gland Intergrity	0.25 hrs	836	Tue 09/05/23 16:00	Tue 09/05/23 16:15	O Galeboe,O Chakama	
838			R359922	Seal For Moisture And Dust.	1 hr	837	Tue 09/05/23 16:15	Tue 09/05/23 17:15	O Galeboe,O Chakama	
839			R359922	Confirm Correct Protection Settings	0.5 hrs	838	Tue 09/05/23 17:15	Tue 09/05/23 17:45	O Galeboe,O Chakama	
840			R359922	Housekeeping	0.5 hrs	839	Tue 09/05/23 17:45	Wed 10/05/23 07:15	O Galeboe,O Chakama	
841			R359922	Clear Permit	0.25 hrs	840	Wed 10/05/23 07:15	Wed 10/05/23 07:30	O Galeboe,O Chakama	
842		30D2GK01	R359923	BASHUT-0067 - SODA ASH AGITATOR - Soda ash agitator electrical services	5.25 hrs		Tue 09/05/23 14:15	Wed 10/05/23 08:30		
843			R359923	Make out permit	0.25 hrs	831	Tue 09/05/23 14:15	Tue 09/05/23 14:30	Operations	
844			R359923	Accept permit	0.25 hrs	843	Tue 09/05/23 14:30	Tue 09/05/23 14:45	O Galeboe,O Chakama	
845			R359923	Risk assessment	0.25 hrs	844	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Galeboe,O Chakama	
846			R359923	Carry out electrical isolation	0.25 hrs	845	Tue 09/05/23 15:00	Tue 09/05/23 15:15	O Galeboe,O Chakama	
847			R359923	Check loose connections in the panel	0.5 hrs	846	Tue 09/05/23 15:15	Tue 09/05/23 15:45	O Galeboe,O Chakama	
848			R359923	Check Contactor contacts	0.5 hrs	847	Tue 09/05/23 15:45	Tue 09/05/23 16:15	O Galeboe,O Chakama	
849			R359923	Service Stop/start	0.25 hrs	848	Tue 09/05/23 16:15	Tue 09/05/23 16:30	O Galeboe,O Chakama	
850			R359923	Check motor fan condition	0.25 hrs	849	Tue 09/05/23 16:30	Tue 09/05/23 16:45	O Galeboe,O Chakama	
851			R359923	Check cable terminal leads for over heating	0.25 hrs	850	Tue 09/05/23 16:45	Tue 09/05/23 17:00	O Galeboe,O Chakama	
852			R359923	Tighten Motor connections& Gland intergrity	0.25 hrs	851	Tue 09/05/23 17:00	Tue 09/05/23 17:15	O Galeboe,O Chakama	
853			R359923	Seal for Moisture and dust.	1 hr	852	Tue 09/05/23 17:15	Wed 10/05/23 07:15	O Galeboe,O Chakama	
854			R359923	Confirm correct protection settings	0.5 hrs	853	Wed 10/05/23 07:15	Wed 10/05/23 07:45	O Galeboe,O Chakama	
855			R359923	Housekeeping	0.5 hrs	854	Wed 10/05/23 07:45	Wed 10/05/23 08:15	O Galeboe,O Chakama	
856			R359923	Clear permit	0.25 hrs	855	Wed 10/05/23 08:15	Wed 10/05/23 08:30	O Galeboe,O Chakama	
857		30D2GA04	R359924	BASHUT-0068 - SODA ASH PUMP - Soda ash pump electrical services	5.25 hrs		Tue 09/05/23 15:15	Wed 10/05/23 09:30		
858			R359924	Make out permit	0.25 hrs	846	Tue 09/05/23 15:15	Tue 09/05/23 15:30	Operations	
859			R359924	Accept permit	0.25 hrs	858	Tue 09/05/23 15:30	Tue 09/05/23 15:45	O Galeboe,O Chakama	
860			R359924	Risk assessment	0.25 hrs	859	Tue 09/05/23 15:45	Tue 09/05/23 16:00	O Galeboe,O Chakama	
861			R359924	Carry out electrical isolation	0.25 hrs	860	Tue 09/05/23 16:00	Tue 09/05/23 16:15	O Galeboe,O Chakama	
862			R359924	Check loose connections in the panel	0.5 hrs	861	Tue 09/05/23 16:15	Tue 09/05/23 16:45	O Galeboe,O Chakama	
863			R359924	Check Contactor contacts	0.5 hrs	862	Tue 09/05/23 16:45	Tue 09/05/23 17:15	O Galeboe,O Chakama	
864			R359924	Service Stop/start	0.25 hrs	863	Tue 09/05/23 17:15	Tue 09/05/23 17:30	O Galeboe,O Chakama	
865			R359924	Check motor fan condition	0.25 hrs	864	Tue 09/05/23 17:30	Tue 09/05/23 17:45	O Galeboe,O Chakama	
866			R359924	Check cable terminal leads for over heating	0.25 hrs	865	Tue 09/05/23 17:45	Tue 09/05/23 18:00	O Galeboe,O Chakama	
867			R359924	Tighten Motor connections& Gland intergrity	0.25 hrs	866	Tue 09/05/23 18:00	Wed 10/05/23 07:15	O Galeboe,O Chakama	
868			R359924	Seal for Moisture and dust.	1 hr	867	Wed 10/05/23 07:15	Wed 10/05/23 08:15	O Galeboe,O Chakama	
869			R359924	Confirm correct protection settings	0.5 hrs	868	Wed 10/05/23 08:15	Wed 10/05/23 08:45	O Galeboe,O Chakama	
870			R359924	Housekeeping	0.5 hrs	869	Wed 10/05/23 08:45	Wed 10/05/23 09:15	O Galeboe,O Chakama	
871			R359924	Clear permit	0.25 hrs	870	Wed 10/05/23 09:15	Wed 10/05/23 09:30	O Galeboe,O Chakama	
872		AREA 53A		# 1 BOILER	179.75 hrs		Wed 03/05/23 07:00	Sat 20/05/23 17:45		
873			R359553	BASHUT-0060 - #1 BOILER - LAGGING AND CLADDING	140 hrs		Fri 05/05/23 10:00	Fri 19/05/23 10:00		
874			R359553	Repair lagging and cladding left hand side wall	140 hrs	890SS+2	Fri 05/05/23 10:00	Fri 19/05/23 10:00		
875			R359553	Repair lagging and cladding right hand side wall	140 hrs	874SS	Fri 05/05/23 10:00	Fri 19/05/23 10:00		
876			R359553	Repair lagging and cladding front wall	140 hrs	875SS	Fri 05/05/23 10:00	Fri 19/05/23 10:00		
877			R359553	Repair lagging and cladding frear wall	140 hrs	876SS	Fri 05/05/23 10:00	Fri 19/05/23 10:00		
878				OPERATIONS	163 hrs		Wed 03/05/23 07:00	Fri 19/05/23 10:00		
879		53A2BB01A01		BASHUT-0070 - SHUTDOWN # 1 BOILER	163 hrs		Wed 03/05/23 07:00	Fri 19/05/23 10:00		
880				Stop Coal Feed	1 hr	7	Wed 03/05/23 07:00	Wed 03/05/23 08:00	Operations	
881				Close Feed Station Valve	1 hr	880	Wed 03/05/23 08:00	Wed 03/05/23 09:00	Operations	
882				Force Cool& Depressurise	33 hrs	881SS	Wed 03/05/23 08:00	Sat 06/05/23 11:00	Operations	
883				Drain Sand	22 hrs	882	Sat 06/05/23 11:00	Mon 08/05/23 14:00	Operations	
884				Make out vessel entry permit	0.75 hrs	883	Mon 08/05/23 14:00	Mon 08/05/23 14:45	Operations	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
885				Accept vessel entry permit	1 hr	884	Mon 08/05/23 14:45	Mon 08/05/23 15:45	Foreman	
886				Open boiler, Blowdown, Steam drum, Economiser and Plenums doors	4 hrs	880	Wed 03/05/23 08:00	Wed 03/05/23 12:00	FT-Util3	
887				Wash down sparge pipes+superheaters	18 hrs	884,886	Mon 08/05/23 14:45	Wed 10/05/23 11:45	Operations	
888				High pressure wash Economizer	32 hrs	882	Sat 06/05/23 11:00	Tue 09/05/23 14:00	Operations	
889				Remove sand from underneath the Boiler	16 hrs	883,888	Tue 09/05/23 14:00	Thu 11/05/23 09:00	Operations	
890				Erect scaffold around Boiler as required	0 hrs	880	Wed 03/05/23 08:00	Wed 03/05/23 08:00	RSC Scaffold	
891				Remove scaffold around Boilers	0 hrs	874,875,	Fri 19/05/23 10:00	Fri 19/05/23 10:00	RSC Scaffold	
892				MECHANICAL	159.25 hrs	9	Fri 05/05/23 03:00	Sat 20/05/23 17:15		
893		53A UTIL STRUCT	R362833	BASHUT-0071 - SPARGE PIPES - Change sparge pipes	154.75 hrs		Fri 05/05/23 03:00	Sat 20/05/23 11:45		
894				Make out permit	0.25 hrs	11	Fri 05/05/23 03:00	Fri 05/05/23 07:15	Operations	
895				Accept permit	0.25 hrs	894	Fri 05/05/23 07:15	Fri 05/05/23 07:30	FT-Util9,Operations	
896				Carry out inspection & identify sparge to be removed	2 hrs	895	Fri 05/05/23 07:30	Fri 05/05/23 09:30	Operations	
897				Remove sparge pipes inside the boiler	36 hrs	896	Fri 05/05/23 09:30	Mon 08/05/23 16:30	Foreman	
898				Repair the sparge pipes	50 hrs	897	Mon 08/05/23 16:30	Sat 13/05/23 16:30	FT-Util9	
899				Inspect clamps & repack seals	30 hrs	898	Sat 13/05/23 16:30	Tue 16/05/23 16:30	BM-Util5	
900				Install the sparge pipes	36 hrs	899	Tue 16/05/23 16:30	Sat 20/05/23 11:30	FT-Util3	
901				Clear permit	0.25 hrs	900	Sat 20/05/23 11:30	Sat 20/05/23 11:45	FT-Util9	
902		53A2RM03A01	R362837	BASHUT-0072 - # 1 BOILER # 1 COAL FLINGER - Recondition housing	101.5 hrs		Fri 05/05/23 07:15	Mon 15/05/23 08:45		
903				Make out permit	1 hr	894	Fri 05/05/23 07:15	Fri 05/05/23 08:15	FT-Util9	
904				Accept permit	0.5 hrs	903	Fri 05/05/23 08:15	Fri 05/05/23 08:45	FT-Util9	
905				Remove housing	13 hrs	904	Fri 05/05/23 08:45	Sat 06/05/23 11:45	FT-Util9	
906				Inspect holding bolts & replace if necessary	13 hrs	905	Sat 06/05/23 11:45	Sun 07/05/23 15:45	FT-Util9	
907				Replace blades	30 hrs	906	Sun 07/05/23 15:45	Wed 10/05/23 15:45	Operations	
908				Recondition housing	13 hrs	907	Wed 10/05/23 15:45	Fri 12/05/23 07:45	FT-Util9	
909				Install housing	30 hrs	908	Fri 12/05/23 07:45	Mon 15/05/23 07:45	FT-Util9	
910				Clear permit	1 hr	909	Mon 15/05/23 07:45	Mon 15/05/23 08:45	FT-Util9	
911		53A2RM05A01	R362838	BASHUT-0073 - # 1 BOILER # 2 COAL FLINGER - Recondition housing	132.25 hrs		Sat 06/05/23 11:45	Fri 19/05/23 15:00		
912				Make out permit	0.75 hrs	905	Sat 06/05/23 11:45	Sat 06/05/23 13:30	FT-Util3	
913				Accept permit	0.5 hrs	912	Sat 06/05/23 13:30	Sat 06/05/23 14:00	FT-Util3	
914				Remove housing	30 hrs	913	Sat 06/05/23 14:00	Tue 09/05/23 14:00	FT-Util3	
915				Inspect holding bolts& replace if necessary	30 hrs	914	Tue 09/05/23 14:00	Fri 12/05/23 14:00	FT-Util3	
916				Replace blades	30 hrs	915	Fri 12/05/23 14:00	Mon 15/05/23 14:00	Operations	
917				Recondition housing	10 hrs	916	Mon 15/05/23 14:00	Tue 16/05/23 14:00	FT-Util3	
918				Install housing	30 hrs	917	Tue 16/05/23 14:00	Fri 19/05/23 14:00	FT-Util3	
919				Clear permit	1 hr	918	Fri 19/05/23 14:00	Fri 19/05/23 15:00	FT-Util3	
920		53A2RM05A01	R362840	BASHUT-0074 - # 1 BOILER # 3 COAL FLINGER - Recondition housing	133 hrs		Sat 06/05/23 14:00	Fri 19/05/23 17:00		
921				Make out permit	0.25 hrs	913	Sat 06/05/23 14:00	Sat 06/05/23 14:15	FT-Util1	
922				Accept permit	0.5 hrs	921	Sat 06/05/23 14:15	Sat 06/05/23 14:45	FT-Util1	
923				Remove housing	24 hrs	922	Sat 06/05/23 14:45	Tue 09/05/23 07:45	FT-Util1	
924				Inspect holding bolts& replace if necessary	24 hrs	923	Tue 09/05/23 07:45	Thu 11/05/23 11:45	FT-Util1	
925				Replace blades	24 hrs	924	Thu 11/05/23 11:45	Sat 13/05/23 16:45	Operations	
926				Recondition housing	30 hrs	925	Sat 13/05/23 16:45	Tue 16/05/23 16:45	FT-Util1	
927				Install housing	30 hrs	926	Tue 16/05/23 16:45	Fri 19/05/23 16:45	FT-Util1	
928				Clear permit	0.25 hrs	927	Fri 19/05/23 16:45	Fri 19/05/23 17:00	FT-Util1	
929		53A2RM05A01	R362841	BASHUT-0075 - # 1 BOILER # 4 COAL FLINGER - Recondition housing	133 hrs		Sat 06/05/23 14:45	Fri 19/05/23 17:45		
930				Make out permit	0.25 hrs	923SS	Sat 06/05/23 14:45	Sat 06/05/23 15:00	FT-Util2	
931				Accept permit	0.5 hrs	930	Sat 06/05/23 15:00	Sat 06/05/23 15:30	FT-Util2	
932				Remove housing	24 hrs	931	Sat 06/05/23 15:30	Tue 09/05/23 08:30	FT-Util2	
933				Inspect holding bolts& replace if necessary	24 hrs	932	Tue 09/05/23 08:30	Thu 11/05/23 13:30	FT-Util2	
934				Replace blades	24 hrs	933	Thu 11/05/23 13:30	Sat 13/05/23 17:30	Operations	
935				Recondition housing	30 hrs	934	Sat 13/05/23 17:30	Tue 16/05/23 17:30	FT-Util2	
936				Install housing	30 hrs	935	Tue 16/05/23 17:30	Fri 19/05/23 17:30	FT-Util2	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
937				Clear permit	0.25 hrs	936	Fri 19/05/23 17:30	Fri 19/05/23 17:45	FT-Util2	
938		53A2FB01A01	R362843	BASHUT-0076 - # 1 BOILER - STEAM DRUM - Carry out inspection	149.75 hrs		Fri 05/05/23 03:00	Fri 19/05/23 17:45		
939				Make out permit	0.25 hrs	955	Fri 05/05/23 03:00	Fri 05/05/23 07:15	FT-Util2	
940				Accept permit	0.25 hrs	939	Fri 05/05/23 07:15	Fri 05/05/23 07:30	FT-Util2	
941				Open drum doors	1 hr	940	Fri 05/05/23 07:30	Fri 05/05/23 08:30	FT-Util2	
942				Make out vessel entry permit	0.75 hrs	941	Fri 05/05/23 08:30	Fri 05/05/23 09:15	Operations	
943				Accept vessel entry permit	1 hr	942	Fri 05/05/23 09:15	Fri 05/05/23 10:15	FT-Util2	
944				Allow drum to cool	34 hrs	943	Fri 05/05/23 10:15	Mon 08/05/23 15:15	Operations	
945				Remove relief valves	1 hr	944	Mon 08/05/23 15:15	Mon 08/05/23 16:15	30Tcrane,FT-Util2,T Mmatli,J Mosenya	
946				Transport relief valves to workshop	13.75 hrs	945	Mon 08/05/23 16:15	Wed 10/05/23 09:00	30Tcrane,FT-Util2,T Mmatli,J Mosenya	
947				Overhaul RVs	16 hrs	946	Wed 10/05/23 09:00	Thu 11/05/23 16:00	Direct Engineering	
948				Remove and clean phosphate pipe	8 hrs	947	Thu 11/05/23 16:00	Fri 12/05/23 14:00	FT-Util2	
949				Refit pipes	26 hrs	948	Fri 12/05/23 14:00	Mon 15/05/23 09:00	FT-Util2	
950				Seal the door properly	4 hrs	949	Mon 15/05/23 09:00	Mon 15/05/23 14:00	FT-Util2	
951				Transport RVs to plant	16 hrs	950	Mon 15/05/23 14:00	Wed 17/05/23 09:00	30Tcrane,FT-Util2,T Mmatli,J Mosenya	
952				Install RVs	25 hrs	951	Wed 17/05/23 09:00	Fri 19/05/23 15:00	FT-Util2	
953				Box doors	2.5 hrs	952	Fri 19/05/23 15:00	Fri 19/05/23 17:30	FT-Util2	
954				Clear vessel entry permit & Works permit	0.25 hrs	953	Fri 19/05/23 17:30	Fri 19/05/23 17:45	FT-Util2	
955		53A2FB01A01	R362844	BASHUT-0077 - # 1 BOILER - STEAM DRUM - Replace Isolation valves	57 hrs		Fri 05/05/23 07:30	Wed 10/05/23 15:30		
956				Make out permit	0.75 hrs	940	Fri 05/05/23 07:30	Fri 05/05/23 08:15	FT-Util2	
957				Accept permit	0.5 hrs	956	Fri 05/05/23 08:15	Fri 05/05/23 08:45	FT-Util2	
958				Cut out isolation valve	8 hrs	957	Fri 05/05/23 08:45	Fri 05/05/23 17:45	FT-Util2	
959				Weld new valves	42.75 hrs	958	Fri 05/05/23 17:45	Wed 10/05/23 09:30	FT-Util2	
960				Carry out NDT	40 hrs	959FF+4	Sat 06/05/23 14:30	Wed 10/05/23 14:30	FT-Util2	
961				Clear Permit	1 hr	960	Wed 10/05/23 14:30	Wed 10/05/23 15:30	FT-Util2	
962		53A2FB01A01	R362845	BASHUT-0078 - # 1 BOILER - STEAM DRUM - Overhaul pressure relief valves	95.25 hrs		Fri 05/05/23 08:15	Sun 14/05/23 14:30		
963				Make out permit	0.75 hrs	956	Fri 05/05/23 08:15	Fri 05/05/23 09:00	FT-Util2	
964				Accept permit	0.5 hrs	963	Fri 05/05/23 09:00	Fri 05/05/23 09:30	FT-Util2	
965				Remove valves	20 hrs	964	Fri 05/05/23 09:30	Sun 07/05/23 09:30	FT-Util2	
966				Overhaul valves (Lap / seats)	42 hrs	965	Sun 07/05/23 09:30	Thu 11/05/23 11:30	FT-Util2	
967				Pressure test	23 hrs	966	Thu 11/05/23 11:30	Sat 13/05/23 15:30	FT-Util2	
968				Re-install valves	8 hrs	967,960	Sat 13/05/23 15:30	Sun 14/05/23 13:30	FT-Util2	
969				Clear Permit	1 hr	968	Sun 14/05/23 13:30	Sun 14/05/23 14:30	FT-Util2	
970		53A2GB01A01	R362846	BASHUT-0079 - # 1 BOILER # 1 FORCED DRAUGHT (fd fan) - Change oil and clean air vents	17.25 hrs		Fri 05/05/23 09:00	Sat 06/05/23 17:15		
971				Make out permit	0.75 hrs	21	Fri 05/05/23 09:00	Fri 05/05/23 09:45	Operations	
972				Accept permit	0.5 hrs	971	Fri 05/05/23 09:45	Fri 05/05/23 10:15	EL-Util4	
973				Loosen & remove motor ND covers	4 hrs	972	Fri 05/05/23 10:15	Fri 05/05/23 15:15	FT-Util4,T Mmatli,J Mosenya	
974				Clean flush and drain oil on both motor & fan	1 hr	973	Fri 05/05/23 15:15	Fri 05/05/23 16:15	FT-Util4	
975				Clean air vents	6 hrs	974	Fri 05/05/23 16:15	Sat 06/05/23 11:15	EL-Util4	
976				Replace & box up covers	3 hrs	975	Sat 06/05/23 11:15	Sat 06/05/23 15:15	7.5Tcrane,FT-Util4,T Mmatli,J Mosenya	
977				Carry out inspection	1 hr	976	Sat 06/05/23 15:15	Sat 06/05/23 16:15	FT-Util4,BM-Util4	
978				Clear permit	1 hr	977	Sat 06/05/23 16:15	Sat 06/05/23 17:15	FT-Util4	
979		53A2GB01A01	R362847	BASHUT-0080 - # 1 BOILER # 2 FORCED DRAUGHT (fd fan) - Change Oil and clean air vents	35.75 hrs		Sat 06/05/23 15:15	Wed 10/05/23 10:00		
980				Make out permit	0.75 hrs	976	Sat 06/05/23 15:15	Sat 06/05/23 16:00	Operations	
981				Accept permit	0.5 hrs	980	Sat 06/05/23 16:00	Sat 06/05/23 16:30	EL-Util1	
982				Loosen & remove motor ND covers	2.5 hrs	981	Sat 06/05/23 16:30	Sun 07/05/23 08:00	FT-Util5,T Mmatli,J Mosenya	
983				Clean flush and drain oil on both motor & fan	1 hr	982	Sun 07/05/23 08:00	Sun 07/05/23 09:00	FT-Util5	
984				Clean air vents	26 hrs	983	Sun 07/05/23 09:00	Tue 09/05/23 16:00	EL-Util1	
985				Replace & box up covers	3 hrs	984	Tue 09/05/23 16:00	Wed 10/05/23 08:00	7.5Tcrane,FT-Util5,T Mmatli,J Mosenya	
986				Carry out inspection	1 hr	985	Wed 10/05/23 08:00	Wed 10/05/23 09:00	BM-Util3,FT-Util5	
987				Clear permit	1 hr	986	Wed 10/05/23 09:00	Wed 10/05/23 10:00	FT-Util5	
988		53A2GB01A01	R362848	BASHUT-0081 - # 1 BOILER # 1 FORCED DRAUGHT FAN (fd fan) - Clean Air ducts	37.25 hrs		Sat 06/05/23 15:15	Wed 10/05/23 11:30		

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
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ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
989				Make out permit	0.75 hrs	976	Sat 06/05/23 15:15	Sat 06/05/23 16:00	Operations	
990				Accept permit	0.5 hrs	989	Sat 06/05/23 16:00	Sat 06/05/23 16:30	FT-Util14	
991				Open inspection covers	2.5 hrs	990	Sat 06/05/23 16:30	Sun 07/05/23 08:00	FT-Util14	
992				Clean all air ducts	2.5 hrs	991	Sun 07/05/23 08:00	Sun 07/05/23 10:30	Operations	
993				Repair holes on the air ducts	28 hrs	992	Sun 07/05/23 10:30	Wed 10/05/23 08:30	BM-Util4	
994				Blow out ducting before start	1 hr	993	Wed 10/05/23 08:30	Wed 10/05/23 09:30	Operations	
995				Box up covers	1 hr	994	Wed 10/05/23 09:30	Wed 10/05/23 10:30	FT-Util14	
996				Clear permit	1 hr	995	Wed 10/05/23 10:30	Wed 10/05/23 11:30	FT-Util14	
997		53A2GB01A01	R362849	BASHUT-0082 - # 1 BOILER # 2 FORCED DRAUGHT FAN(fd fan) - Clean Air ducts	37.25 hrs		Wed 10/05/23 11:30	Sun 14/05/23 08:45		
998				Make out permit	0.75 hrs	996	Wed 10/05/23 11:30	Wed 10/05/23 13:15	Operations	
999				Accept permit	0.5 hrs	998	Wed 10/05/23 13:15	Wed 10/05/23 13:45	FT-Util2	
1000				Open all inspection doors	1 hr	999	Wed 10/05/23 13:45	Wed 10/05/23 14:45	FT-Util2	
1001				Clean all air ducts	24 hrs	1000	Wed 10/05/23 14:45	Sat 13/05/23 07:45		
1002				Repair holes on the air duct	8 hrs	1001	Sat 13/05/23 07:45	Sat 13/05/23 16:45	BM-Util2	
1003				Blow out ducting before start	1 hr	1002	Sat 13/05/23 16:45	Sat 13/05/23 17:45	Operations	
1004				Box up doors	1 hr	1003	Sat 13/05/23 17:45	Sun 14/05/23 07:45	FT-Util2	
1005				Clear permit	1 hr	1004	Sun 14/05/23 07:45	Sun 14/05/23 08:45	FT-Util2	
1006		53A2GB01A01	R362850	BASHUT-0083 - # 1 BOILER # 1 FORCED DRAUGHT FAN (fd fan) - Overhaul dumper mechani	39.75 hrs		Sun 14/05/23 07:45	Thu 18/05/23 07:30		
1007				Make out permit	0.75 hrs	1004	Sun 14/05/23 07:45	Sun 14/05/23 08:30	Operations	
1008				Accept permit	0.5 hrs	1007	Sun 14/05/23 08:30	Sun 14/05/23 09:00	FT-Util2	
1009				Delink turnbuckles from dumper	1 hr	1008	Sun 14/05/23 09:00	Sun 14/05/23 10:00	FT-Util2	
1010				Remove bolts from pillow blocks	1 hr	1009	Sun 14/05/23 10:00	Sun 14/05/23 11:00	FT-Util2	
1011				Take the assembly to workshop	2.5 hrs	1010	Sun 14/05/23 11:00	Sun 14/05/23 14:30	FT-Util2	
1012				Separate turnbuckles from transfer bar	21 hrs	1011	Sun 14/05/23 14:30	Tue 16/05/23 15:30	FT-Util2	
1013				Replace pillow blocks with new ones	2.5 hrs	1012	Tue 16/05/23 15:30	Tue 16/05/23 18:00	FT-Util2	
1014				Exercise turnbuckles & lock nuts	2.5 hrs	1013	Tue 16/05/23 18:00	Wed 17/05/23 09:30	FT-Util2	
1015				Connect turnbuckles to transfer bar	1 hr	1014	Wed 17/05/23 09:30	Wed 17/05/23 10:30	FT-Util2	
1016				Tranport assembly & link with dumper	2.5 hrs	1015	Wed 17/05/23 10:30	Wed 17/05/23 14:00	FT-Util2	
1017				Install assembly & link with dumper	2.5 hrs	1016	Wed 17/05/23 14:00	Wed 17/05/23 16:30	FT-Util2	
1018				Apply penetrating oil to dumper links	1 hr	1017	Wed 17/05/23 16:30	Wed 17/05/23 17:30	FT-Util2	
1019				Operate cylinder to exercise dumper mechanism	1 hr	1018	Wed 17/05/23 17:30	Thu 18/05/23 07:30	FT-Util2	
1020		53A2GB01A01	R362852	BASHUT-0084 - # 1 BOILER # 2 FORCED DRAUGHT FAN (fd fan) - Overhaul dumper mechani	39.75 hrs		Sun 14/05/23 08:30	Thu 18/05/23 08:15		
1021				Make out permit	0.75 hrs	1007	Sun 14/05/23 08:30	Sun 14/05/23 09:15	Operations	
1022				Accept permit	0.5 hrs	1021	Sun 14/05/23 09:15	Sun 14/05/23 09:45	FT-Util1	
1023				Delink turnbuckles from dumper	1 hr	1022	Sun 14/05/23 09:45	Sun 14/05/23 10:45	FT-Util1	
1024				Remove bolts from pillow blocks	1 hr	1023	Sun 14/05/23 10:45	Sun 14/05/23 11:45	FT-Util1	
1025				Take the assembly to workshop	2.5 hrs	1024	Sun 14/05/23 11:45	Sun 14/05/23 15:15	FT-Util1	
1026				Separate turnbuckles from transfer bar	21 hrs	1025	Sun 14/05/23 15:15	Tue 16/05/23 16:15	FT-Util1	
1027				Replace pillow blocks with new ones	2.5 hrs	1026	Tue 16/05/23 16:15	Wed 17/05/23 07:45	FT-Util1	
1028				Exercise turnbuckles & lock nuts	2.5 hrs	1027	Wed 17/05/23 07:45	Wed 17/05/23 10:15	FT-Util1	
1029				Connect turnbuckles to transfer bar	1 hr	1028	Wed 17/05/23 10:15	Wed 17/05/23 11:15	FT-Util1	
1030				tranport assembly & link with dumper	2.5 hrs	1029	Wed 17/05/23 11:15	Wed 17/05/23 14:45	FT-Util1	
1031				Install assembly & link with dumper	2.5 hrs	1030	Wed 17/05/23 14:45	Wed 17/05/23 17:15	FT-Util1	
1032				Apply penetrating oil to dumper links	1 hr	1031	Wed 17/05/23 17:15	Thu 18/05/23 07:15	FT-Util1	
1033				Operate cylinder to exercise dumper mechanism	1 hr	1032	Thu 18/05/23 07:15	Thu 18/05/23 08:15	FT-Util1	
1034		53A2GB01A01	R362853	BASHUT-0085 - # 1 BOILER # INDUCED FAN (ID fan) - Inspection	48.25 hrs		Sat 06/05/23 15:15	Thu 11/05/23 13:30		
1035				Make out permit	0.75 hrs	976	Sat 06/05/23 15:15	Sat 06/05/23 16:00	Operations	
1036				Accept permit	0.5 hrs	1035	Sat 06/05/23 16:00	Sat 06/05/23 16:30	FT-Util14	
1037				Open inspection & carry out inspection	4 hrs	1036	Sat 06/05/23 16:30	Sun 07/05/23 09:30	FT-Util14	
1038				Repair / replace if necessary	36 hrs	1037	Sun 07/05/23 09:30	Wed 10/05/23 16:30	Operations	
1039				Box up covers	6 hrs	1038	Wed 10/05/23 16:30	Thu 11/05/23 11:30	FT-Util14	
1040				Clear permit	1 hr	1039	Thu 11/05/23 11:30	Thu 11/05/23 13:30	FT-Util14	

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ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1041		53A2FK01A01	R362854	BASHUT-0086 - # 1 BOILER BAGHOUSE - Carry out inspection	123.25 hrs		Sat 06/05/23 15:15	Fri 19/05/23 07:30		
1042				Make out permit	0.75 hrs	1035SS	Sat 06/05/23 15:15	Sat 06/05/23 16:00	Operations	
1043				Accept permit	0.5 hrs	1042	Sat 06/05/23 16:00	Sat 06/05/23 16:30	Operations	
1044	 			Open compartment and check air distribution pipes	30 hrs	1043	Sat 06/05/23 16:30	Tue 09/05/23 16:30	FT-Util5	
1045				Inspect all compartment bags	13 hrs	1044	Tue 09/05/23 16:30	Thu 11/05/23 08:30	Operations	
1046	 			Inspect and identify defective air supply nozzles	5 hrs	1045	Thu 11/05/23 08:30	Thu 11/05/23 14:30	FT-Util5	
1047	 			Rig down and transport to workshop	1 hr	1046	Thu 11/05/23 14:30	Thu 11/05/23 15:30	T Mmatli,J Mosenya	
1048	 			Carry out repairs on defective air supply nozzles	13 hrs	1047	Thu 11/05/23 15:30	Sat 13/05/23 07:30	FT-Util5,BM-Util1	
1049				Transport to plant and rig up	1 hr	1048	Sat 13/05/23 07:30	Sat 13/05/23 08:30	FT-Util5,T Mmatli,J Mosenya	
1050	 			Install air supply nozzles	50 hrs	1049	Sat 13/05/23 08:30	Thu 18/05/23 08:30	FT-Util5	
1051				Repair all hinges in the doors	8 hrs	1050	Thu 18/05/23 08:30	Thu 18/05/23 17:30	FT-Util5	
1052				Clear permit	1 hr	1051	Thu 18/05/23 17:30	Fri 19/05/23 07:30	Operations	
1053		53A2FK01A01	R362855	BASHUT-0087 - # 1 BOILER BAGHOUSE - Repair skin casings	154.75 hrs		Fri 05/05/23 03:00	Sat 20/05/23 11:45		
1054				Make out permit	0.25 hrs	7	Fri 05/05/23 03:00	Fri 05/05/23 07:15	Operations	
1055				Accept permit	0.25 hrs	1054	Fri 05/05/23 07:15	Fri 05/05/23 07:30	Operations	
1056				Erect scaffolding	0 hrs	1055	Fri 05/05/23 07:30	Fri 05/05/23 07:30	FT-Util5	
1057	 			Mark and cut damaged / coroded areas	30 hrs	1056	Fri 05/05/23 07:30	Mon 08/05/23 07:30	Operations	
1058	 			Manufacture new skincasings	120 hrs	1057SS+:Sun 07/05/23 09:30	Fri 19/05/23 09:30	FT-Util5		
1059	 			Install new skin casings (Seal weld 100%)	110 hrs	1058SS+:Tue 09/05/23 11:30	Sat 20/05/23 11:30	T Mmatli,J Mosenya		
1060				Remove scaffolding	0 hrs	1059	Sat 20/05/23 11:30	Sat 20/05/23 11:30	FT-Util5	
1061				Clear permit	0.25 hrs	1060	Sat 20/05/23 11:30	Sat 20/05/23 11:45	Operations	
1062		53A2FK01A01	R362856	BASHUT-0088 - # 1 BOILER BAGHOUSE - Repair baghouse screw conveyors	23.25 hrs		Tue 09/05/23 16:30	Fri 12/05/23 08:45		
1063				Make out permit	0.75 hrs	1044	Tue 09/05/23 16:30	Tue 09/05/23 17:15	Operations	
1064				Accept permit	0.5 hrs	1063	Tue 09/05/23 17:15	Tue 09/05/23 17:45	Operations	
1065	 			Remove geared unit	4 hrs	1064	Tue 09/05/23 17:45	Wed 10/05/23 10:45	FT-Util5	
1066	 			Remove coupling	2.5 hrs	1065	Wed 10/05/23 10:45	Wed 10/05/23 14:15	Operations	
1067				Inspect bearings and replace if required	8 hrs	1066	Wed 10/05/23 14:15	Thu 11/05/23 11:15	FT-Util5	
1068	 			Install geared unit	2.5 hrs	1067	Thu 11/05/23 11:15	Thu 11/05/23 14:45	T Mmatli,J Mosenya	
1069	 			RE-couple screw conveyor	4 hrs	1068	Thu 11/05/23 14:45	Fri 12/05/23 07:45	FT-Util5	
1070	 			Clear permit	1 hr	1069	Fri 12/05/23 07:45	Fri 12/05/23 08:45	Operations	
1071		53A2FK01A01	R362859	BASHUT-0089 - # 1 BOILER BAGHOUSE ASH CONVEYING LINES - Replace lines	85.25 hrs		Fri 12/05/23 08:45	Sat 20/05/23 15:00		
1072	 			Make out permit	0.75 hrs	1070	Fri 12/05/23 08:45	Fri 12/05/23 09:30	Operations	
1073				Accept permit	0.5 hrs	1072	Fri 12/05/23 09:30	Fri 12/05/23 10:00	Operations	
1074	 			Clean and clear lines	24 hrs	1073	Fri 12/05/23 10:00	Sun 14/05/23 15:00	FT-Util5	
1075	 			Remove lines	24 hrs	1074	Sun 14/05/23 15:00	Wed 17/05/23 08:00	Operations	
1076	 			Pre-manufacture new lines	12 hrs	1075	Wed 17/05/23 08:00	Thu 18/05/23 10:00	FT-Util5	
1077	 			Install new lines	23 hrs	1076	Thu 18/05/23 10:00	Sat 20/05/23 14:00	T Mmatli,J Mosenya	
1078				Clear permit	1 hr	1077	Sat 20/05/23 14:00	Sat 20/05/23 15:00	Operations	
1079		53A2FK01A01	R362857	BASHUT-0090 - BOILER BAGHOUSE ASH COLLECTING HOPPER - Install level gauge	66.75 hrs		Fri 12/05/23 08:45	Thu 18/05/23 16:30		
1080	 			Make out permit	0.25 hrs	1072SS	Fri 12/05/23 08:45	Fri 12/05/23 09:00	Operations	
1081				Accept permit	0.25 hrs	1080	Fri 12/05/23 09:00	Fri 12/05/23 09:15	Operations	
1082	 			Cut window	8 hrs	1081	Fri 12/05/23 09:15	Sat 13/05/23 07:15	FT-Util5	
1083	 			Weld flange	28 hrs	1082	Sat 13/05/23 07:15	Mon 15/05/23 16:15	Operations	
1084	 			Install level gauge	24 hrs	1083	Mon 15/05/23 16:15	Thu 18/05/23 09:15	FT-Util5	
1085				DCS functional / loop tests	6 hrs	1084	Thu 18/05/23 09:15	Thu 18/05/23 16:15	T Mmatli,J Mosenya	
1086				Clear permit	0.25 hrs	1085	Thu 18/05/23 16:15	Thu 18/05/23 16:30	Operations	
1087		53A2FK01A01	R362860	BASHUT-0091 - BOILER BAGHOUSE ASH COLLECTING HOPPER - Replace isolation valves	20.75 hrs		Thu 18/05/23 16:30	Sat 20/05/23 17:15		
1088				Make out permit	0.25 hrs	1086	Thu 18/05/23 16:30	Thu 18/05/23 16:45	Operations	
1089				Accept permit	0.25 hrs	1088	Thu 18/05/23 16:45	Thu 18/05/23 17:00	Operations	
1090				Remove valves	4 hrs	1089	Thu 18/05/23 17:00	Fri 19/05/23 10:00	FT-Util5	
1091				Install new valves	16 hrs	1090	Fri 19/05/23 10:00	Sat 20/05/23 17:00	Operations	
1092				Clear permit	0.25 hrs	1091	Sat 20/05/23 17:00	Sat 20/05/23 17:15	Operations	

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ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1093		53A2BB01A01	R362861	BASHUT-0092 - # 1 BOILER - Inspect & free hatches	45 hrs		Fri 05/05/23 13:00	Tue 09/05/23 18:00		
1094				Make out permit	0.75 hrs	890	Fri 05/05/23 13:00	Fri 05/05/23 13:45	Operations	
1095				Accept permit	0.5 hrs	1094	Fri 05/05/23 13:45	Fri 05/05/23 14:15	FT-Util6	
1096				Inspect hatches	2.5 hrs	1095	Fri 05/05/23 14:15	Fri 05/05/23 16:45	FT-Util6	
1097				Repair hatches if required	6 hrs	1096	Fri 05/05/23 16:45	Sat 06/05/23 11:45		
1098		53A GEN VALVE	R362862	Replace/clean glasses if necessary	4 hrs	1097	Sat 06/05/23 11:45	Sat 06/05/23 16:45	FT-Util6	
1099				Clear permit	1 hr	1098	Sat 06/05/23 16:45	Sat 06/05/23 17:45	FT-Util6	
1100				BASHUT-0093 - # 1 BOILER FEED STATION - Overhaul Isolation Valves	74.25 hrs		Sat 06/05/23 17:45	Sun 14/05/23 11:00		
1101				Erect scaffold	4 hrs	1099,890	Sat 06/05/23 17:45	Sun 07/05/23 10:45	RSC Scaffold	
1102				Make out permit	0.75 hrs	1101	Sun 07/05/23 10:45	Sun 07/05/23 11:30	Operations	
1103		53A GEN VALVE	R362863	Accept permit	0.5 hrs	1102	Sun 07/05/23 11:30	Sun 07/05/23 12:00	FT-Util5	
1104				Strip valve internals	25 hrs	1103	Sun 07/05/23 13:00	Tue 09/05/23 18:00	Direct Engineering	
1105				Overhaul valves	14 hrs	1104	Wed 10/05/23 07:00	Thu 11/05/23 11:00	Direct Engineering	
1106				Reassemble valve	25 hrs	1105	Thu 11/05/23 11:00	Sat 13/05/23 17:00	Direct Engineering	
1107				Clear permit	1 hr	1106	Sat 13/05/23 17:00	Sat 13/05/23 18:00	FT-Util5	
1108		53A GEN VALVE	R362863	Remove Scaffold	4 hrs	1107	Sat 13/05/23 18:00	Sun 14/05/23 11:00	RSC Scaffold	
1109				BASHUT-0094 - # 1 BOILER MANUAL ISOLATION VALVES - Overhaul first Isolation Valves	60.5 hrs		Sun 07/05/23 10:45	Sat 13/05/23 11:15		
1110				Erect scaffold	4 hrs	1101	Sun 07/05/23 10:45	Sun 07/05/23 15:45	RSC Scaffold	
1111				Make out permit	0.25 hrs	1110	Sun 07/05/23 15:45	Sun 07/05/23 16:00	Operations	
1112				Accept permit	0.25 hrs	1111	Sun 07/05/23 16:00	Sun 07/05/23 16:15	FT-Util10	
1113		53A2BB01A01	R362864	Strip valve internals	4.75 hrs	1112	Sun 07/05/23 16:15	Mon 08/05/23 10:00	Direct Engineering	
1114				Overhaul valves	16 hrs	1113,1110	Thu 11/05/23 11:00	Fri 12/05/23 18:00	Direct Engineering	
1115				Reassemble valve	4 hrs	1114	Fri 12/05/23 18:00	Sat 13/05/23 11:00	Direct Engineering	
1116				Clear permit	0.25 hrs	1115	Sat 13/05/23 11:00	Sat 13/05/23 11:15	FT-Util10	
1117				Remove Scaffold	0 hrs	1116	Sat 13/05/23 11:15	Sat 13/05/23 11:15	RSC Scaffold	
1118		53A2BB01A01	R362864	BASHUT-0095 - # 1 BOILER LEVEL INDICATOR ISOLATION VALVE - Replace isolation valves	46.5 hrs		Fri 12/05/23 14:30	Wed 17/05/23 10:00		
1119				Make Out Permit	0.25 hrs	1314	Fri 12/05/23 14:30	Fri 12/05/23 14:45	Operations	
1120				Accept Permit	0.25 hrs	1119	Fri 12/05/23 14:45	Fri 12/05/23 15:00	Babcock	
1121				Cut Old Valve 2 Off	15.75 hrs	1120	Fri 12/05/23 15:00	Sun 14/05/23 09:45	Babcock	
1122				Weld In Valves	30 hrs	1121	Sun 14/05/23 09:45	Wed 17/05/23 09:45	Babcock	
1123		53A2GA05A03	R362872	Clear Permit	0.25 hrs	1122	Wed 17/05/23 09:45	Wed 17/05/23 10:00	K Raphiri,K Keaketswe	
1124				BASHUT-0096 - # 1 BOILER FEED PUMP MOTOR - Change Oil and clean air vents	46.25 hrs		Sun 07/05/23 11:30	Fri 12/05/23 07:45		
1125				Make out permit	0.75 hrs	1102	Sun 07/05/23 11:30	Sun 07/05/23 13:15	Operations	
1126				Accept permit	0.5 hrs	1125	Sun 07/05/23 13:15	Sun 07/05/23 13:45	FT-Util7	
1127				Loosen & remove covers	1 hr	1126	Sun 07/05/23 13:45	Sun 07/05/23 14:45	FT-Util7,30Tcrane,T Mmatli,J Mosenya	
1128		53A2GA06A03	R362874	Clean flush and drain oil on both motor& fan	24 hrs	1127	Sun 07/05/23 14:45	Wed 10/05/23 07:45	FT-Util7	
1129				Clean air vents	17 hrs	1128	Wed 10/05/23 07:45	Thu 11/05/23 15:45	FT-Util7,BM-Util5	
1130				Replace & box up covers	1 hr	1129	Thu 11/05/23 15:45	Thu 11/05/23 16:45	FT-Util7,30Tcrane,T Mmatli,J Mosenya	
1131				Carry out inspection	1 hr	1130	Thu 11/05/23 16:45	Thu 11/05/23 17:45	FT-Util7	
1132				Clear permit	1 hr	1131	Thu 11/05/23 17:45	Fri 12/05/23 07:45	FT-Util7	
1133		53A2GA07A03	R362875	BASHUT-0097 - # 2 BOILER FEED PUMP MOTOR -Change Oil and clean air vents	11.75 hrs		Thu 11/05/23 17:45	Sat 13/05/23 08:30		
1134				Make out permit	0.75 hrs	1132SS	Thu 11/05/23 17:45	Fri 12/05/23 07:30	Operations	
1135				Accept permit	0.5 hrs	1134	Fri 12/05/23 07:30	Fri 12/05/23 08:00	FT-Util11	
1136				Loosen & remove covers	1 hr	1135	Fri 12/05/23 08:00	Fri 12/05/23 09:00	30Tcrane,FT-Util11,T Mmatli,J Mosenya	
1137				Clean flush and drain oil on both motor & fan	4 hrs	1136	Fri 12/05/23 09:00	Fri 12/05/23 14:00	FT-Util11	
1138		53A2GA07A03	R362875	Clean air vents	2.5 hrs	1137	Fri 12/05/23 14:00	Fri 12/05/23 16:30	FT-Util11,BM-Util5	
1139				Replace & box up covers	1 hr	1138	Fri 12/05/23 16:30	Fri 12/05/23 17:30	30Tcrane,FT-Util11,T Mmatli,J Mosenya	
1140				Carry out inspection	1 hr	1139	Fri 12/05/23 17:30	Sat 13/05/23 07:30	FT-Util11	
1141				Clear permit	1 hr	1140	Sat 13/05/23 07:30	Sat 13/05/23 08:30	FT-Util11	
1142				BASHUT-0098 - # 3 BOILER FEED PUMP MOTOR - Change oil and clean air vents	11.75 hrs		Sat 13/05/23 08:30	Sun 14/05/23 10:15		
1143		53A2GA07A03	R362875	Make out permit	0.75 hrs	1141	Sat 13/05/23 08:30	Sat 13/05/23 09:15	Operations	
1144				Accept permit	0.5 hrs	1143	Sat 13/05/23 09:15	Sat 13/05/23 09:45	FT-Util5	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1145				Loosen& remove covers	1 hr	1144	Sat 13/05/23 09:45	Sat 13/05/23 10:45	30Tcrane,FT-Util5,T Mmatli,J Mosenya	
1146				Clean flush and drain oil on both motor & fan	2.5 hrs	1145	Sat 13/05/23 10:45	Sat 13/05/23 14:15	FT-Util5	
1147				Clean air vents	4 hrs	1146	Sat 13/05/23 14:15	Sun 14/05/23 07:15	FT-Util5,BM-Util5	
1148				Replace& box up covers	1 hr	1147	Sun 14/05/23 07:15	Sun 14/05/23 08:15	30Tcrane,FT-Util5,T Mmatli,J Mosenya	
1149				Carry out inspection	1 hr	1148	Sun 14/05/23 08:15	Sun 14/05/23 09:15	FT-Util5	
1150				Clear permit	1 hr	1149	Sun 14/05/23 09:15	Sun 14/05/23 10:15	FT-Util5	
1151		53A2GB02A01	R362878	BASHUT-0099 - # 1 BOILER MAIN STEAM STOP VALVE - Lap valve seats	23.25 hrs		Sun 07/05/23 16:00	Wed 10/05/23 08:15		
1152				Make out permit	0.75 hrs	1111	Sun 07/05/23 16:00	Sun 07/05/23 16:45	Operations	
1153				Accept permit	0.5 hrs	1152	Sun 07/05/23 16:45	Sun 07/05/23 17:15	FT-Util7	
1154				Open valve	1 hr	1153	Sun 07/05/23 17:15	Mon 08/05/23 07:15	Direct Engineering	
1155				Lap valve seats	13 hrs	1154	Mon 08/05/23 07:15	Tue 09/05/23 10:15	Direct Engineering	
1156				Inspect valve	1 hr	1155	Tue 09/05/23 10:15	Tue 09/05/23 11:15	INS-Util4	
1157				Reassemble valve	6 hrs	1156	Tue 09/05/23 11:15	Wed 10/05/23 07:15	Direct Engineering	
1158				Clear permit	1 hr	1157	Wed 10/05/23 07:15	Wed 10/05/23 08:15	FT-Util7	
1159		53A2GB02A01	R362884	BASHUT-0100 - # 1 BOILER - Inbed Tubes	78.25 hrs		Sat 06/05/23 16:45	Sun 14/05/23 15:00		
1160				Make out permit	0.75 hrs	1098	Sat 06/05/23 16:45	Sat 06/05/23 17:30	Operations	
1161				Accept permit	0.5 hrs	1160	Sat 06/05/23 17:30	Sat 06/05/23 18:00	FT-Util7	
1162				Inspect inbed tubes / shrouding	26 hrs	1161	Sun 07/05/23 07:00	Tue 09/05/23 14:00	Direct Engineering	
1163				Replace inbed tubes and shrouding if necessary	50 hrs	1162	Tue 09/05/23 14:00	Sun 14/05/23 14:00	Direct Engineering	
1164				NDT Testing	43 hrs	1163FF	Wed 10/05/23 10:00	Sun 14/05/23 14:00	INS-Util4	
1165				Clear permit	1 hr	1164	Sun 14/05/23 14:00	Sun 14/05/23 15:00	FT-Util7	
1166		53A2GB02A01	R362885	BASHUT-0101 - # 1 BOILER Bunker - Paint	76.25 hrs		Sun 07/05/23 15:45	Mon 15/05/23 11:00		
1167				Erect scaffold	4 hrs	1110	Sun 07/05/23 15:45	Mon 08/05/23 08:45		
1168				Make out permit	0.75 hrs	1167	Mon 08/05/23 08:45	Mon 08/05/23 09:30	Operations	
1169				Accept permit	0.5 hrs	1168	Mon 08/05/23 09:30	Mon 08/05/23 10:00	FT-Util7	
1170				Paint Bunkers	66 hrs	1169	Mon 08/05/23 10:00	Sun 14/05/23 17:00	Direct Engineering	
1171				Remove scaffolding	4 hrs	1170	Sun 14/05/23 17:00	Mon 15/05/23 10:00	Direct Engineering	
1172				Clear permit	1 hr	1171	Mon 15/05/23 10:00	Mon 15/05/23 11:00	FT-Util7	
1173		53A2GB02A01	R362886	BASHUT-0102 - # 1 BOILER - Inspect Bed seal	81.5 hrs		Sat 06/05/23 17:30	Mon 15/05/23 08:00		
1174				Make out permit	0.75 hrs	1160	Sat 06/05/23 17:30	Sun 07/05/23 07:15	Operations	
1175				Accept permit	0.5 hrs	1174	Sun 07/05/23 07:15	Sun 07/05/23 07:45	FT-Util7	
1176				Inspect Bed seal	4 hrs	1175,116	Tue 09/05/23 14:00	Tue 09/05/23 18:00	Direct Engineering	
1177				Repair Bed seal if necessary	50 hrs	1176	Wed 10/05/23 07:00	Sun 14/05/23 18:00	Direct Engineering	
1178				Clear permit	1 hr	1177	Sun 14/05/23 18:00	Mon 15/05/23 08:00	FT-Util7	
1179				ELECTRICAL	116 hrs	9	Mon 08/05/23 16:30	Sat 20/05/23 11:30		
1180		53A2RM02A01	R362888	BASHUT-0103 - # 1 BOILER #1 COAL FLINGER - Carry out electrical maintenance	3.75 hrs		Wed 10/05/23 15:45	Thu 11/05/23 08:30		
1181				Make Out Permit	0.25 hrs	908SS	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Operations	
1182				Accept Permit	0.25 hrs	1181	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
1183				Carry Out Electrical Isolation	0.25 hrs	1182	Wed 10/05/23 16:15	Wed 10/05/23 16:30	O Galeboe,O Chakama	
1184				Check Loose Connections In The Panel	0.5 hrs	1183	Wed 10/05/23 16:30	Wed 10/05/23 17:00	O Galeboe,O Chakama	
1185				Open Vsdv& Blow Out Dust	0.25 hrs	1184	Wed 10/05/23 17:00	Wed 10/05/23 17:15	O Galeboe,O Chakama	
1186				Tighten Vsd Connections	0.25 hrs	1185	Wed 10/05/23 17:15	Wed 10/05/23 17:30	O Galeboe,O Chakama	
1187				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1186	Wed 10/05/23 17:30	Wed 10/05/23 17:45	O Galeboe,O Chakama	
1188				Confirm Correct Protection Settings	0.5 hrs	1187	Wed 10/05/23 17:45	Thu 11/05/23 07:15	O Galeboe,O Chakama	
1189				Seal For Moisture And Dust.	1 hr	1188	Thu 11/05/23 07:15	Thu 11/05/23 08:15	O Galeboe,O Chakama	
1190				Clear Permit	0.25 hrs	1189	Thu 11/05/23 08:15	Thu 11/05/23 08:30	O Galeboe,O Chakama	
1191		53A2RM03A01	R362889	BASHUT-0104 - # 1 BOILER #2 COAL FLINGER - Electrical Maintenance - Carry out electrical	3.75 hrs		Mon 15/05/23 14:00	Mon 15/05/23 17:45		
1192				Make Out Permit	0.25 hrs	917SS	Mon 15/05/23 14:00	Mon 15/05/23 14:15	Operations	
1193				Accept Permit	0.25 hrs	1192	Mon 15/05/23 14:15	Mon 15/05/23 14:30	O Chakama,O Galeboe	
1194				Carry Out Electrical Isolation	0.25 hrs	1193	Mon 15/05/23 14:30	Mon 15/05/23 14:45	O Chakama,O Galeboe	
1195				Check Loose Connections In The Panel	0.5 hrs	1194	Mon 15/05/23 14:45	Mon 15/05/23 15:15	O Chakama,O Galeboe	
1196				Open Vsd& Blow Out Dust	0.25 hrs	1195	Mon 15/05/23 15:15	Mon 15/05/23 15:30	O Chakama,O Galeboe	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1197	 			Tighten Vsd Connections	0.25 hrs	1196	Mon 15/05/23 15:30	Mon 15/05/23 15:45	O Chakama,O Galeboe	
1198				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1197	Mon 15/05/23 15:45	Mon 15/05/23 16:00	O Chakama,O Galeboe	
1199				Confirm Correct Protection Settings	0.5 hrs	1198	Mon 15/05/23 16:00	Mon 15/05/23 16:30	O Chakama,O Galeboe	
1200				Seal For Moisture And Dust.	1 hr	1199	Mon 15/05/23 16:30	Mon 15/05/23 17:30	O Chakama,O Galeboe	
1201				Clear Permit	0.25 hrs	1200	Mon 15/05/23 17:30	Mon 15/05/23 17:45	O Chakama,O Galeboe	
1202		53A2RM04A01	R362891	BASHUT-0106 - # 1 BOILER #3 COAL FLINGER Electrical Maintenance - Carry out electrical m	3.75 hrs		Sat 13/05/23 16:45	Sun 14/05/23 09:30		
1203				Make Out Permit	0.25 hrs	926SS	Sat 13/05/23 16:45	Sat 13/05/23 17:00	Operations	
1204				Accept Permit	0.25 hrs	1203	Sat 13/05/23 17:00	Sat 13/05/23 17:15	O Galeboe,O Chakama	
1205				Carry Out Electrical Isolation	0.25 hrs	1204	Sat 13/05/23 17:15	Sat 13/05/23 17:30	O Galeboe,O Chakama	
1206				Check Loose Connections In The Panel	0.5 hrs	1205	Sat 13/05/23 17:30	Sat 13/05/23 18:00	O Galeboe,O Chakama	
1207				Open Vsd& Blow Out Dust	0.25 hrs	1206	Sat 13/05/23 18:00	Sun 14/05/23 07:15	O Galeboe,O Chakama	
1208				Tighten Vsd Connections	0.25 hrs	1207	Sun 14/05/23 07:15	Sun 14/05/23 07:30	O Galeboe,O Chakama	
1209				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1208	Sun 14/05/23 07:30	Sun 14/05/23 07:45	O Galeboe,O Chakama	
1210				Confirm Correct Protection Settings	0.5 hrs	1209	Sun 14/05/23 07:45	Sun 14/05/23 08:15	O Galeboe,O Chakama	
1211				Seal For Moisture And Dust.	1 hr	1210	Sun 14/05/23 08:15	Sun 14/05/23 09:15	O Galeboe,O Chakama	
1212				Clear Permit	0.25 hrs	1211	Sun 14/05/23 09:15	Sun 14/05/23 09:30	O Galeboe,O Chakama	
1213		53A2RM05A01	R362892	BASHUT-0106 - # 1 BOILER #4 COAL FLINGER Electrical Maintenance - Carry out electrical m	15.25 hrs		Sat 13/05/23 17:30	Mon 15/05/23 11:45		
1214	 			Make Out Permit	11.75 hrs	935SS	Sat 13/05/23 17:30	Mon 15/05/23 08:15	Operations	
1215				Accept Permit	0.25 hrs	1214	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Galeboe,O Chakama	
1216				Carry Out Electrical Isolation	0.25 hrs	1215	Mon 15/05/23 08:30	Mon 15/05/23 08:45	O Galeboe,O Chakama	
1217				Check Loose Connections In The Panel	0.5 hrs	1216	Mon 15/05/23 08:45	Mon 15/05/23 09:15	O Galeboe,O Chakama	
1218				Open Vsd & Blow Out Dust	0.25 hrs	1217	Mon 15/05/23 09:15	Mon 15/05/23 09:30	O Galeboe,O Chakama	
1219				Tighten Vsd Connections	0.25 hrs	1218	Mon 15/05/23 09:30	Mon 15/05/23 09:45	O Galeboe,O Chakama	
1220				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1219	Mon 15/05/23 09:45	Mon 15/05/23 10:00	O Galeboe,O Chakama	
1221				Confirm Correct Protection Settings	0.5 hrs	1220	Mon 15/05/23 10:00	Mon 15/05/23 10:30	O Galeboe,O Chakama	
1222				Seal For Moisture And Dust.	1 hr	1221	Mon 15/05/23 10:30	Mon 15/05/23 11:30	O Galeboe,O Chakama	
1223				Clear Permit	0.25 hrs	1222	Mon 15/05/23 11:30	Mon 15/05/23 11:45	O Galeboe,O Chakama	
1224		53A2K-04A02	R362894	BASHUT-0108 - # 1 BOILER #1 COAL METERING SCREW Electrical Services - Carry out maint	27.75 hrs		Mon 08/05/23 16:30	Thu 11/05/23 14:15		
1225				Make Out Permit	0.25 hrs	897	Mon 08/05/23 16:30	Mon 08/05/23 16:45	Operations	
1226				Accept Permit	0.25 hrs	1225	Mon 08/05/23 16:45	Mon 08/05/23 17:00	O Galeboe,O Chakama	
1227				Carry Out Electrical Isolation	0.25 hrs	1226	Mon 08/05/23 17:00	Mon 08/05/23 17:15	O Galeboe,O Chakama	
1228				Check Loose Connections In The Panel	0.5 hrs	1227	Mon 08/05/23 17:15	Mon 08/05/23 17:45	O Galeboe,O Chakama	
1229				Check Contactor Contacts	0.5 hrs	1228	Mon 08/05/23 17:45	Tue 09/05/23 07:15	O Galeboe,O Chakama	
1230				Service Field Stop/Start	0.25 hrs	1229	Tue 09/05/23 07:15	Tue 09/05/23 07:30	O Galeboe,O Chakama	
1231	 			Check Geared Unit Oil Leakage Into The Motor	24 hrs	1229	Tue 09/05/23 07:15	Thu 11/05/23 11:15	O Galeboe,O Chakama	
1232				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1231	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
1233				Confirm Correct Protection Settings	0.5 hrs	1232	Thu 11/05/23 11:30	Thu 11/05/23 12:00	O Galeboe,O Chakama	
1234				Seal For Moisture And Dust.	1 hr	1233	Thu 11/05/23 12:00	Thu 11/05/23 14:00	O Galeboe,O Chakama	
1235				Clear Permit	0.25 hrs	1234	Thu 11/05/23 14:00	Thu 11/05/23 14:15	O Galeboe,O Chakama	
1236		53A2K-05A02	R362895	BASHUT-0108 - # 1 BOILER #2 COAL METERING SCREW Electrical Services - Carry out maint	28 hrs		Tue 09/05/23 07:30	Thu 11/05/23 16:30		
1237				Make Out Permit	0.25 hrs	1230	Tue 09/05/23 07:30	Tue 09/05/23 07:45	Operations	
1238				Accept Permit	0.25 hrs	1237	Tue 09/05/23 07:45	Tue 09/05/23 08:00	O Chakama,O Galeboe	
1239				Carry Out Electrical Isolation	0.25 hrs	1238	Tue 09/05/23 08:00	Tue 09/05/23 08:15	O Chakama,O Galeboe	
1240				Check Loose Connections In The Panel	0.5 hrs	1239	Tue 09/05/23 08:15	Tue 09/05/23 08:45	O Chakama,O Galeboe	
1241				Check Contactor Contacts	0.5 hrs	1240	Tue 09/05/23 08:45	Tue 09/05/23 09:15	O Chakama,O Galeboe	
1242				Service Field Stop/Start	0.25 hrs	1241	Tue 09/05/23 09:15	Tue 09/05/23 09:30	O Chakama,O Galeboe	
1243	 			Check Geared Unit Oil Leakage Into The Motor	24 hrs	1242	Tue 09/05/23 09:30	Thu 11/05/23 14:30	O Chakama,O Galeboe	
1244				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1243	Thu 11/05/23 14:30	Thu 11/05/23 14:45	O Chakama,O Galeboe	
1245				Confirm Correct Protection Settings	0.5 hrs	1244	Thu 11/05/23 14:45	Thu 11/05/23 15:15	O Chakama,O Galeboe	
1246				Seal For Moisture And Dust.	1 hr	1245	Thu 11/05/23 15:15	Thu 11/05/23 16:15	O Chakama,O Galeboe	
1247				Clear Permit	0.25 hrs	1246	Thu 11/05/23 16:15	Thu 11/05/23 16:30	O Chakama,O Galeboe	
1248		53A2K-06A02	R362897	BASHUT-0109 - # 1 BOILER #3 COAL METERING SCREW Electrical Services - Carry out maint	28 hrs		Tue 09/05/23 09:15	Fri 12/05/23 07:15		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1249				Make Out Permit	0.25 hrs	1241	Tue 09/05/23 09:15	Tue 09/05/23 09:30	Operations	
1250				Accept Permit	0.25 hrs	1249	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Galeboe,O Chakama	
1251				Carry Out Electrical Isolation	0.25 hrs	1250	Tue 09/05/23 09:45	Tue 09/05/23 10:00	O Galeboe,O Chakama	
1252				Check Loose Connections In The Panel	0.5 hrs	1251	Tue 09/05/23 10:00	Tue 09/05/23 10:30	O Galeboe,O Chakama	
1253				Check Contactor Contacts	0.5 hrs	1252	Tue 09/05/23 10:30	Tue 09/05/23 11:00	O Galeboe,O Chakama	
1254				Service Field Stop/Start	0.25 hrs	1253	Tue 09/05/23 11:00	Tue 09/05/23 11:15	O Galeboe,O Chakama	
1255				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1254	Tue 09/05/23 11:15	Thu 11/05/23 16:15	O Galeboe,O Chakama	
1256				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1255	Thu 11/05/23 16:15	Thu 11/05/23 16:30	O Galeboe,O Chakama	
1257				Confirm Correct Protection Settings	0.5 hrs	1256	Thu 11/05/23 16:30	Thu 11/05/23 17:00	O Galeboe,O Chakama	
1258				Seal For Moisture And Dust.	1 hr	1257	Thu 11/05/23 17:00	Thu 11/05/23 18:00	O Galeboe,O Chakama	
1259				Clear Permit	0.25 hrs	1258	Thu 11/05/23 18:00	Fri 12/05/23 07:15	O Galeboe,O Chakama	
1260		53A2K-07A02	R362898	BASHUT-0110 - # 1 BOILER #4 COAL METERING SCREW Electrical Services - Carry out maint	28 hrs		Tue 09/05/23 10:00	Fri 12/05/23 08:00		
1261				Make Out Permit	0.25 hrs	1251	Tue 09/05/23 10:00	Tue 09/05/23 10:15	Operations	
1262				Accept Permit	0.25 hrs	1261	Tue 09/05/23 10:15	Tue 09/05/23 10:30	O Galeboe,O Chakama	
1263				Carry Out Electrical Isolation	0.25 hrs	1262	Tue 09/05/23 10:30	Tue 09/05/23 10:45	O Galeboe,O Chakama	
1264				Check Loose Connections In The Panel	0.5 hrs	1263	Tue 09/05/23 10:45	Tue 09/05/23 11:15	O Galeboe,O Chakama	
1265				Check Contactor Contacts	0.5 hrs	1264	Tue 09/05/23 11:15	Tue 09/05/23 11:45	O Galeboe,O Chakama	
1266				Service Field Stop/Start	0.25 hrs	1265	Tue 09/05/23 11:45	Tue 09/05/23 12:00	O Galeboe,O Chakama	
1267				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1266	Tue 09/05/23 13:00	Thu 11/05/23 17:00	O Galeboe,O Chakama	
1268				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1267	Thu 11/05/23 17:00	Thu 11/05/23 17:15	O Galeboe,O Chakama	
1269				Confirm Correct Protection Settings	0.5 hrs	1268	Thu 11/05/23 17:15	Thu 11/05/23 17:45	O Galeboe,O Chakama	
1270				Seal For Moisture And Dust.	1 hr	1269	Thu 11/05/23 17:45	Fri 12/05/23 07:45	O Galeboe,O Chakama	
1271				Clear Permit	0.25 hrs	1270	Fri 12/05/23 07:45	Fri 12/05/23 08:00	O Galeboe,O Chakama	
1272		53A2K-08A02	R362899	BASHUT-0111 - # 1 BOILER #1 CONSTANT SPEED SCREW Electrical Services - Carry out main	28 hrs		Tue 09/05/23 11:45	Fri 12/05/23 09:45		
1273				Make Out Permit	0.25 hrs	1265	Tue 09/05/23 11:45	Tue 09/05/23 12:00	Operations	
1274				Accept Permit	0.25 hrs	1273	Tue 09/05/23 12:00	Tue 09/05/23 13:15	O Galeboe,O Chakama	
1275				Carry Out Electrical Isolation	0.25 hrs	1274	Tue 09/05/23 13:15	Tue 09/05/23 13:30	O Galeboe,O Chakama	
1276				Check Loose Connections In The Panel	0.5 hrs	1275	Tue 09/05/23 13:30	Tue 09/05/23 14:00	O Galeboe,O Chakama	
1277				Check Contactor Contacts	0.5 hrs	1276	Tue 09/05/23 14:00	Tue 09/05/23 14:30	O Galeboe,O Chakama	
1278				Service Field Stop/Start	0.25 hrs	1277	Tue 09/05/23 14:30	Tue 09/05/23 14:45	O Galeboe,O Chakama	
1279				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1278	Tue 09/05/23 14:45	Fri 12/05/23 07:45	O Galeboe,O Chakama	
1280				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1279	Fri 12/05/23 07:45	Fri 12/05/23 08:00	O Galeboe,O Chakama	
1281				Confirm Correct Protection Settings	0.5 hrs	1280	Fri 12/05/23 08:00	Fri 12/05/23 08:30	O Galeboe,O Chakama	
1282				Seal For Moisture And Dust.	1 hr	1281	Fri 12/05/23 08:30	Fri 12/05/23 09:30	O Galeboe,O Chakama	
1283				Clear Permit	0.25 hrs	1282	Fri 12/05/23 09:30	Fri 12/05/23 09:45	O Galeboe,O Chakama	
1284		53A2K-09A02	R362902	BASHUT-0112 - # 1 BOILER #2 CONSTANT SPEED SCREW Electrical Services - Carry out main	28 hrs		Tue 09/05/23 12:00	Fri 12/05/23 10:00		
1285				Make Out Permit	0.25 hrs	1273	Tue 09/05/23 12:00	Tue 09/05/23 13:15	Operations	
1286				Accept Permit	0.25 hrs	1285	Tue 09/05/23 13:15	Tue 09/05/23 13:30	O Chakama,O Galeboe	
1287				Carry Out Electrical Isolation	0.25 hrs	1286	Tue 09/05/23 13:30	Tue 09/05/23 13:45	O Chakama,O Galeboe	
1288				Check Loose Connections In The Panel	0.5 hrs	1287	Tue 09/05/23 13:45	Tue 09/05/23 14:15	O Chakama,O Galeboe	
1289				Check Contactor Contacts	0.5 hrs	1288	Tue 09/05/23 14:15	Tue 09/05/23 14:45	O Chakama,O Galeboe	
1290				Service Field Stop/Start	0.25 hrs	1289	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Chakama,O Galeboe	
1291				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1290	Tue 09/05/23 15:00	Fri 12/05/23 08:00	O Chakama,O Galeboe	
1292				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1291	Fri 12/05/23 08:00	Fri 12/05/23 08:15	O Chakama,O Galeboe	
1293				Confirm Correct Protection Settings	0.5 hrs	1292	Fri 12/05/23 08:15	Fri 12/05/23 08:45	O Chakama,O Galeboe	
1294				Seal For Moisture And Dust.	1 hr	1293	Fri 12/05/23 08:45	Fri 12/05/23 09:45	O Chakama,O Galeboe	
1295				Clear Permit	0.25 hrs	1294	Fri 12/05/23 09:45	Fri 12/05/23 10:00	O Chakama,O Galeboe	
1296		53A2K-10A02	R362905	BASHUT-0113 - # 1 BOILER #3 CONSTANT SPEED SCREW Electrical Services - Carry out main	27.75 hrs		Tue 09/05/23 15:00	Fri 12/05/23 11:45		
1297				Make Out Permit	0.25 hrs	1290	Tue 09/05/23 15:00	Tue 09/05/23 15:15	Operations	
1298				Accept Permit	0.25 hrs	1297	Tue 09/05/23 15:15	Tue 09/05/23 15:30	O Galeboe,O Chakama	
1299				Carry Out Electrical Isolation	0.25 hrs	1298	Tue 09/05/23 15:30	Tue 09/05/23 15:45	O Galeboe,O Chakama	
1300				Check Loose Connections In The Panel	0.25 hrs	1299	Tue 09/05/23 15:45	Tue 09/05/23 16:00	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1301				Check Contactor Contacts	0.5 hrs	1300	Tue 09/05/23 16:00	Tue 09/05/23 16:30	O Galeboe,O Chakama	
1302				Service Field Stop/Start	0.25 hrs	1301	Tue 09/05/23 16:30	Tue 09/05/23 16:45	O Galeboe,O Chakama	
1303				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1302	Tue 09/05/23 16:45	Fri 12/05/23 09:45	O Galeboe,O Chakama	
1304				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1303	Fri 12/05/23 09:45	Fri 12/05/23 10:00	O Galeboe,O Chakama	
1305				Confirm Correct Protection Settings	0.5 hrs	1304	Fri 12/05/23 10:00	Fri 12/05/23 10:30	O Galeboe,O Chakama	
1306				Seal For Moisture And Dust.	1 hr	1305	Fri 12/05/23 10:30	Fri 12/05/23 11:30	O Galeboe,O Chakama	
1307				Clear Permit	0.25 hrs	1306	Fri 12/05/23 11:30	Fri 12/05/23 11:45	O Galeboe,O Chakama	
1308		53A2K-11A02	R362906	BASHUT-0114 - # 1 BOILER #4 CONSTANT SPEED SCREW Electrical Services - Carry out main	39 hrs		Fri 12/05/23 11:30	Tue 16/05/23 10:30		
1309				Make Out Permit	0.25 hrs	1298,130	Fri 12/05/23 11:30	Fri 12/05/23 11:45	Operations	
1310				Accept Permit	0.25 hrs	1309	Fri 12/05/23 11:45	Fri 12/05/23 12:00	O Galeboe,O Chakama	
1311				Carry Out Electrical Isolation	0.25 hrs	1310	Fri 12/05/23 12:00	Fri 12/05/23 13:15	O Galeboe,O Chakama	
1312				Check Loose Connections In The Panel	0.5 hrs	1311	Fri 12/05/23 13:15	Fri 12/05/23 13:45	O Galeboe,O Chakama	
1313				Check Contactor Contacts	0.5 hrs	1312	Fri 12/05/23 13:45	Fri 12/05/23 14:15	O Galeboe,O Chakama	
1314				Service Field Stop/Start	0.25 hrs	1313	Fri 12/05/23 14:15	Fri 12/05/23 14:30	O Galeboe,O Chakama	
1315				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1314	Fri 12/05/23 14:30	Mon 15/05/23 07:30	O Galeboe,O Chakama	
1316				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1315	Mon 15/05/23 07:30	Mon 15/05/23 07:45	O Galeboe,O Chakama	
1317				Confirm Correct Protection Settings	0.5 hrs	1316	Mon 15/05/23 07:45	Mon 15/05/23 08:15	O Galeboe,O Chakama	
1318				Seal For Moisture And Dust.	12 hrs	1317	Mon 15/05/23 08:15	Tue 16/05/23 10:15	O Galeboe,O Chakama	
1319				Clear Permit	0.25 hrs	1318	Tue 16/05/23 10:15	Tue 16/05/23 10:30	O Galeboe,O Chakama	
1320		53A2GB01A01	R362908	BASHUT-0115 - # 1 BOILER # 1 FD FAN - Electrical services	12.5 hrs		Wed 10/05/23 08:30	Thu 11/05/23 11:00		
1321				Make Out Permit	0.25 hrs	993	Wed 10/05/23 08:30	Wed 10/05/23 08:45	Operations	
1322				Accept Permit	0.25 hrs	1321	Wed 10/05/23 08:45	Wed 10/05/23 09:00	O Galeboe,O Chakama	
1323				Prepair Clearance Certificate	0.25 hrs	1322	Wed 10/05/23 09:00	Wed 10/05/23 09:15	O Galeboe,O Chakama	
1324				Carry Out Electrical Isolation	0.25 hrs	1323	Wed 10/05/23 09:15	Wed 10/05/23 09:30	O Galeboe,O Chakama	
1325				Check Motor Fan Condition	0.25 hrs	1324	Wed 10/05/23 09:30	Wed 10/05/23 09:45	O Galeboe,O Chakama	
1326				Inspect Terminal Box Interior& Capacitor Condition	1.5 hrs	1325	Wed 10/05/23 09:45	Wed 10/05/23 11:15	O Galeboe,O Chakama	
1327				Check Gland& Terminal Box Gasket	0.5 hrs	1326	Wed 10/05/23 11:15	Wed 10/05/23 11:45	O Galeboe,O Chakama	
1328				Drain Oil And Open Fan Cover	2 hrs	1327	Wed 10/05/23 11:45	Wed 10/05/23 14:45	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
1329				Clean Motor Air Vents	4 hrs	1328	Wed 10/05/23 14:45	Thu 11/05/23 07:45	O Galeboe,O Chakama	
1330				Close Fan Cover And Fill Oil	2 hrs	1329	Thu 11/05/23 07:45	Thu 11/05/23 09:45	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
1331				Seal For Moisture And Dust.	1 hr	1330	Thu 11/05/23 09:45	Thu 11/05/23 10:45	O Galeboe,O Chakama	
1332				Clear Permit	0.25 hrs	1331	Thu 11/05/23 10:45	Thu 11/05/23 11:00	O Galeboe,O Chakama	
1333		53A2GB02A01	R362909	BASHUT-0116 - #1 BOILER # 2 FD FAN - Electrical services	15.25 hrs		Wed 10/05/23 08:45	Thu 11/05/23 15:00		
1334				Make Out Permit	0.25 hrs	1321	Wed 10/05/23 08:45	Wed 10/05/23 09:00	Operations	
1335				Accept Permit	0.25 hrs	1334	Wed 10/05/23 09:00	Wed 10/05/23 09:15	O Galeboe,O Chakama	
1336				Prepair Clearance Certificate	0.5 hrs	1335	Wed 10/05/23 09:15	Wed 10/05/23 09:45	O Galeboe,O Chakama	
1337				Carry Out Electrical Isolation	0.5 hrs	1335,132	Wed 10/05/23 11:45	Wed 10/05/23 13:15	O Galeboe,O Chakama	
1338				Check Motor Fan Condition	0.5 hrs	1337	Wed 10/05/23 13:15	Wed 10/05/23 13:45	O Galeboe,O Chakama	
1339				Inspect Terminal Box Interior& Capacitor Condition	1.5 hrs	1338	Wed 10/05/23 13:45	Wed 10/05/23 15:15	O Galeboe,O Chakama	
1340				Check Gland & Terminal Box Gasket	0.5 hrs	1339	Wed 10/05/23 15:15	Wed 10/05/23 15:45	O Galeboe,O Chakama	
1341				Drain Oil And Open Fan Cover	2 hrs	1340	Wed 10/05/23 15:45	Wed 10/05/23 17:45	O Galeboe,O Chakama	
1342				Clean Motor Air Vents	4 hrs	1341	Wed 10/05/23 17:45	Thu 11/05/23 10:45	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
1343				Close Fan Cover And Fill Oil	2 hrs	1342	Thu 11/05/23 10:45	Thu 11/05/23 13:45	O Galeboe,O Chakama	
1344				Seal For Moisture And Dust.	1 hr	1343	Thu 11/05/23 13:45	Thu 11/05/23 14:45	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
1345				Clear Permit	0.25 hrs	1344	Thu 11/05/23 14:45	Thu 11/05/23 15:00	O Galeboe,O Chakama	
1346		53A2GB04A01	R362911	BASHUT-0117 - # 1 BOILER ID FAN - Electrical services	15.5 hrs		Wed 10/05/23 09:00	Thu 11/05/23 15:30		
1347				Make Out Permit	0.25 hrs	1334	Wed 10/05/23 09:00	Wed 10/05/23 09:15	Operations	
1348				Accept Permit	0.25 hrs	1347	Wed 10/05/23 09:15	Wed 10/05/23 09:30	O Chakama,O Galeboe	
1349				Prepair Clearance Certificate	0.5 hrs	1348	Wed 10/05/23 09:30	Wed 10/05/23 10:00	O Chakama,O Galeboe	
1350				Carry Out Electrical Isolation	0.5 hrs	1337,134	Wed 10/05/23 13:15	Wed 10/05/23 13:45	O Chakama,O Galeboe	
1351				Check Motor Fan Condition	0.5 hrs	1350,133	Wed 10/05/23 13:45	Wed 10/05/23 14:15	O Chakama,O Galeboe	
1352				Inspect Terminal Box Interior& Capacitor Condition	1.5 hrs	1351	Wed 10/05/23 14:15	Wed 10/05/23 15:45	O Chakama,O Galeboe	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1353				Check Gland& Terminal Box Gasket	0.5 hrs	1352	Wed 10/05/23 15:45	Wed 10/05/23 16:15	O Chakama,O Galeboe	
1354				Drain Oil And Open Fan Cover	2 hrs	1353	Wed 10/05/23 16:15	Thu 11/05/23 07:15	O Chakama,T Mmatli,G moiseraela,J Mosenya,O Galeboe	
1355				Clean Motor Air Vents	4 hrs	1354	Thu 11/05/23 07:15	Thu 11/05/23 11:15	O Chakama,O Galeboe	
1356				Close Fan Cover And Fill Oil	2 hrs	1355	Thu 11/05/23 11:15	Thu 11/05/23 14:15	O Chakama,T Mmatli,G moiseraela,J Mosenya,O Galeboe	
1357				Seal For Moisture And Dust.	1 hr	1356	Thu 11/05/23 14:15	Thu 11/05/23 15:15	O Chakama,O Galeboe	
1358				Clear Permit	0.25 hrs	1357	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Chakama,O Galeboe	
1359		53A2K-02A01	R362936	BASHUT-0118 - # 1 BAGHOUSE DUST SCREW MASTER Electrical Services - Carry out mainte	28 hrs		Thu 11/05/23 14:45	Sun 14/05/23 11:45		
1360				Make Out Permit	0.25 hrs	1068	Thu 11/05/23 14:45	Thu 11/05/23 15:00	Operations	
1361				Accept Permit	0.25 hrs	1360	Thu 11/05/23 15:00	Thu 11/05/23 15:15	O Chakama,O Galeboe	
1362				Carry Out Electrical Isolation	0.25 hrs	1361	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Chakama,O Galeboe	
1363				Check Loose Connections In The Panel	0.5 hrs	1362	Thu 11/05/23 15:30	Thu 11/05/23 16:00	O Chakama,O Galeboe	
1364				Check Contactor Contacts	0.5 hrs	1363	Thu 11/05/23 16:00	Thu 11/05/23 16:30	O Chakama,O Galeboe	
1365				Service Field Stop/Start	0.25 hrs	1364	Thu 11/05/23 16:30	Thu 11/05/23 16:45	O Chakama,O Galeboe	
1366				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1365	Thu 11/05/23 16:45	Sun 14/05/23 09:45	O Chakama,O Galeboe	
1367				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1366	Sun 14/05/23 09:45	Sun 14/05/23 10:00	O Chakama,O Galeboe	
1368				Confirm Correct Protection Settings	0.5 hrs	1367	Sun 14/05/23 10:00	Sun 14/05/23 10:30	O Chakama,O Galeboe	
1369				Seal For Moisture And Dust.	1 hr	1368	Sun 14/05/23 10:30	Sun 14/05/23 11:30	O Chakama,O Galeboe	
1370				Clear Permit	0.25 hrs	1369	Sun 14/05/23 11:30	Sun 14/05/23 11:45	O Chakama,O Galeboe	
1371		53A2K-03A01	R362938	BASHUT-0119 - # 1 BAGHOUSE DUST SCREW SLAVE Electrical Services - Carry out maintena	28 hrs		Thu 11/05/23 15:00	Sun 14/05/23 12:00		
1372				Make Out Permit	0.25 hrs	1360	Thu 11/05/23 15:00	Thu 11/05/23 15:15	Operations	
1373				Accept Permit	0.25 hrs	1372	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Galeboe,O Chakama	
1374				Carry Out Electrical Isolation	0.25 hrs	1373	Thu 11/05/23 15:30	Thu 11/05/23 15:45	O Galeboe,O Chakama	
1375				Check Loose Connections In The Panel	0.5 hrs	1374	Thu 11/05/23 15:45	Thu 11/05/23 16:15	O Galeboe,O Chakama	
1376				Check Contactor Contacts	0.5 hrs	1375	Thu 11/05/23 16:15	Thu 11/05/23 16:45	O Galeboe,O Chakama	
1377				Service Field Stop/Start	0.25 hrs	1376	Thu 11/05/23 16:45	Thu 11/05/23 17:00	O Galeboe,O Chakama	
1378				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1377	Thu 11/05/23 17:00	Sun 14/05/23 10:00	O Galeboe,O Chakama	
1379				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1378	Sun 14/05/23 10:00	Sun 14/05/23 10:15	O Galeboe,O Chakama	
1380				Confirm Correct Protection Settings	0.5 hrs	1379	Sun 14/05/23 10:15	Sun 14/05/23 10:45	O Galeboe,O Chakama	
1381				Seal For Moisture And Dust.	1 hr	1380	Sun 14/05/23 10:45	Sun 14/05/23 11:45	O Galeboe,O Chakama	
1382				Clear Permit	0.25 hrs	1381	Sun 14/05/23 11:45	Sun 14/05/23 12:00	O Galeboe,O Chakama	
1383		53A2GB03A01	R362940	BASHUT-0120 - # 1 BOILER FLINGER COOL AIR FAN Electrical Services - Carry out electrical	4.75 hrs		Thu 11/05/23 15:15	Fri 12/05/23 09:00		
1384				Make Out Permit	0.25 hrs	1372	Thu 11/05/23 15:15	Thu 11/05/23 15:30	Operations	
1385				Accept Permit	0.25 hrs	1384	Thu 11/05/23 15:30	Thu 11/05/23 15:45	O Galeboe,O Chakama	
1386				Carry Out Electrical Isolation	0.25 hrs	1385	Thu 11/05/23 15:45	Thu 11/05/23 16:00	O Galeboe,O Chakama	
1387				Check Loose Connections In The Panel	0.5 hrs	1386	Thu 11/05/23 16:00	Thu 11/05/23 16:30	O Galeboe,O Chakama	
1388				Check Contactor Contacts	0.5 hrs	1387	Thu 11/05/23 16:30	Thu 11/05/23 17:00	O Galeboe,O Chakama	
1389				Service Stop/Start	0.25 hrs	1388	Thu 11/05/23 17:00	Thu 11/05/23 17:15	O Galeboe,O Chakama	
1390				Ensure Motor Mountings Are Secure.	0.25 hrs	1389	Thu 11/05/23 17:15	Thu 11/05/23 17:30	O Galeboe,O Chakama	
1391				Check Motor Fan Condition	0.25 hrs	1390	Thu 11/05/23 17:30	Thu 11/05/23 17:45	O Galeboe,O Chakama	
1392				Check Cable Terminal Leads For Over Heating	0.25 hrs	1391	Thu 11/05/23 17:45	Thu 11/05/23 18:00	O Galeboe,O Chakama	
1393				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1392	Thu 11/05/23 18:00	Fri 12/05/23 07:15	O Galeboe,O Chakama	
1394				Seal For Moisture And Dust.	1 hr	1393	Fri 12/05/23 07:15	Fri 12/05/23 08:15	O Galeboe,O Chakama	
1395				Confirm Correct Protection Settings	0.5 hrs	1394	Fri 12/05/23 08:15	Fri 12/05/23 08:45	O Galeboe,O Chakama	
1396				Clear Permit	0.25 hrs	1395	Fri 12/05/23 08:45	Fri 12/05/23 09:00	O Galeboe,O Chakama	
1397		53A2GA09A03	R362942	BASHUT-0121 - # 1 DIESEL FUEL PUMP Electrical Services - Carry out electrical maintenance	4.5 hrs		Thu 11/05/23 15:30	Fri 12/05/23 09:00		
1398				Make Out Permit	0.25 hrs	1384	Thu 11/05/23 15:30	Thu 11/05/23 15:45	Operations	
1399				Accept Permit	0.25 hrs	1398	Thu 11/05/23 15:45	Thu 11/05/23 16:00	O Galeboe,O Chakama	
1400				Carry Out Electrical Isolation	0.25 hrs	1399	Thu 11/05/23 16:00	Thu 11/05/23 16:15	O Galeboe,O Chakama	
1401				Check Loose Connections In The Panel	0.5 hrs	1400	Thu 11/05/23 16:15	Thu 11/05/23 16:45	O Galeboe,O Chakama	
1402				Check Contactor Contacts	0.5 hrs	1401	Thu 11/05/23 16:45	Thu 11/05/23 17:15	O Galeboe,O Chakama	
1403				Service Stop/Start	0.25 hrs	1402	Thu 11/05/23 17:15	Thu 11/05/23 17:30	O Galeboe,O Chakama	
1404				Check Motor Fan Condition	0.25 hrs	1403	Thu 11/05/23 17:30	Thu 11/05/23 17:45	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1405				Check Cable Terminal Leads For Over Heating	0.25 hrs	1404	Thu 11/05/23 17:45	Thu 11/05/23 18:00	O Galeboe,O Chakama	
1406				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1405	Thu 11/05/23 18:00	Fri 12/05/23 07:15	O Galeboe,O Chakama	
1407				Seal For Moisture And Dust.	1 hr	1406	Fri 12/05/23 07:15	Fri 12/05/23 08:15	O Galeboe,O Chakama	
1408				Confirm Correct Protection Settings	0.5 hrs	1407	Fri 12/05/23 08:15	Fri 12/05/23 08:45	O Galeboe,O Chakama	
1409				Clear Permit	0.25 hrs	1408	Fri 12/05/23 08:45	Fri 12/05/23 09:00	O Galeboe,O Chakama	
1410		53A2GA10A03	R362944	BASHUT-0122 - # 2 DIESEL FUEL PUMP Electrical Services - Carry out electrical maintenance	4.5 hrs		Thu 11/05/23 16:45	Fri 12/05/23 10:15		
1411				Make Out Permit	0.25 hrs	1401	Thu 11/05/23 16:45	Thu 11/05/23 17:00	Operations	
1412				Accept Permit	0.25 hrs	1411	Thu 11/05/23 17:00	Thu 11/05/23 17:15	O Galeboe,O Chakama	
1413				Carry Out Electrical Isolation	0.25 hrs	1412	Thu 11/05/23 17:15	Thu 11/05/23 17:30	O Galeboe,O Chakama	
1414				Check Loose Connections In The Panel	0.5 hrs	1413	Thu 11/05/23 17:30	Thu 11/05/23 18:00	O Galeboe,O Chakama	
1415				Check Contactor Contacts	0.5 hrs	1414	Thu 11/05/23 18:00	Fri 12/05/23 07:30	O Galeboe,O Chakama	
1416				Service Stop/Start	0.25 hrs	1415	Fri 12/05/23 07:30	Fri 12/05/23 07:45	O Galeboe,O Chakama	
1417				Check Motor Fan Condition	0.25 hrs	1416	Fri 12/05/23 07:45	Fri 12/05/23 08:00	O Galeboe,O Chakama	
1418				Check Cable Terminal Leads For Over Heating	0.25 hrs	1417	Fri 12/05/23 08:00	Fri 12/05/23 08:15	O Galeboe,O Chakama	
1419				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1418	Fri 12/05/23 08:15	Fri 12/05/23 08:30	O Galeboe,O Chakama	
1420				Seal For Moisture And Dust.	1 hr	1419	Fri 12/05/23 08:30	Fri 12/05/23 09:30	O Galeboe,O Chakama	
1421				Confirm Correct Protection Settings	0.5 hrs	1420	Fri 12/05/23 09:30	Fri 12/05/23 10:00	O Galeboe,O Chakama	
1422				Clear Permit	0.25 hrs	1421	Fri 12/05/23 10:00	Fri 12/05/23 10:15	O Galeboe,O Chakama	
1423		53A2K-12A01	R362945	BASHUT-0123 - # 1 BOILER # 1 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Thu 11/05/23 17:00	Sun 14/05/23 15:00		
1424				Make Out Permit	0.25 hrs	1411	Thu 11/05/23 17:00	Thu 11/05/23 17:15	Operations	
1425				Accept Permit	0.25 hrs	1424	Thu 11/05/23 17:15	Thu 11/05/23 17:30	O Chakama,O Galeboe	
1426				Carry Out Electrical Isolation	0.25 hrs	1425	Thu 11/05/23 17:30	Thu 11/05/23 17:45	O Chakama,O Galeboe	
1427				Check Loose Connections In The Panel	0.5 hrs	1426	Thu 11/05/23 17:45	Fri 12/05/23 07:15	O Chakama,O Galeboe	
1428				Check Contactor Contacts	0.5 hrs	1427	Fri 12/05/23 07:15	Fri 12/05/23 07:45	O Chakama,O Galeboe	
1429				Service Field Stop/Start	0.25 hrs	1428	Fri 12/05/23 07:45	Fri 12/05/23 08:00	O Chakama,O Galeboe	
1430				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1429	Fri 12/05/23 08:00	Sun 14/05/23 12:00	O Chakama,O Galeboe	
1431				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1430	Sun 14/05/23 12:00	Sun 14/05/23 13:15	O Chakama,O Galeboe	
1432				Confirm Correct Protection Settings	0.5 hrs	1431	Sun 14/05/23 13:15	Sun 14/05/23 13:45	O Chakama,O Galeboe	
1433				Seal For Moisture And Dust.	1 hr	1432	Sun 14/05/23 13:45	Sun 14/05/23 14:45	O Chakama,O Galeboe	
1434				Clear Permit	0.25 hrs	1433	Sun 14/05/23 14:45	Sun 14/05/23 15:00	O Chakama,O Galeboe	
1435		53A2K-13A01	R362946	BASHUT-0124 - # 1 BOILER # 2 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Sun 14/05/23 13:45	Wed 17/05/23 10:45		
1436				Make Out Permit	0.25 hrs	1432	Sun 14/05/23 13:45	Sun 14/05/23 14:00	Operations	
1437				Accept Permit	0.25 hrs	1436	Sun 14/05/23 14:00	Sun 14/05/23 14:15	O Galeboe,O Chakama	
1438				Carry Out Electrical Isolation	0.25 hrs	1437	Sun 14/05/23 14:15	Sun 14/05/23 14:30	O Galeboe,O Chakama	
1439				Check Loose Connections In The Panel	0.5 hrs	1438	Sun 14/05/23 14:30	Sun 14/05/23 15:00	O Galeboe,O Chakama	
1440				Check Contactor Contacts	0.5 hrs	1439	Sun 14/05/23 15:00	Sun 14/05/23 15:30	O Galeboe,O Chakama	
1441				Service Field Stop/Start	0.25 hrs	1440	Sun 14/05/23 15:30	Sun 14/05/23 15:45	O Galeboe,O Chakama	
1442				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1441	Sun 14/05/23 15:45	Wed 17/05/23 08:45	O Galeboe,O Chakama	
1443				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1442	Wed 17/05/23 08:45	Wed 17/05/23 09:00	O Galeboe,O Chakama	
1444				Confirm Correct Protection Settings	0.5 hrs	1443	Wed 17/05/23 09:00	Wed 17/05/23 09:30	O Galeboe,O Chakama	
1445				Seal For Moisture And Dust.	1 hr	1444	Wed 17/05/23 09:30	Wed 17/05/23 10:30	O Galeboe,O Chakama	
1446				Clear Permit	0.25 hrs	1445	Wed 17/05/23 10:30	Wed 17/05/23 10:45	O Galeboe,O Chakama	
1447		53A2K-14A01	R362947	BASHUT-0125 - # 1 BOILER # 3 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Sun 14/05/23 14:15	Wed 17/05/23 11:15		
1448				Make Out Permit	0.25 hrs	1437	Sun 14/05/23 14:15	Sun 14/05/23 14:30	Operations	
1449				Accept Permit	0.25 hrs	1448	Sun 14/05/23 14:30	Sun 14/05/23 14:45	O Chakama,O Galeboe	
1450				Carry Out Electrical Isolation	0.25 hrs	1449	Sun 14/05/23 14:45	Sun 14/05/23 15:00	O Chakama,O Galeboe	
1451				Check Loose Connections In The Panel	0.5 hrs	1450	Sun 14/05/23 15:00	Sun 14/05/23 15:30	O Chakama,O Galeboe	
1452				Check Contactor Contacts	0.5 hrs	1451	Sun 14/05/23 15:30	Sun 14/05/23 16:00	O Chakama,O Galeboe	
1453				Service Field Stop/Start	0.25 hrs	1452	Sun 14/05/23 16:00	Sun 14/05/23 16:15	O Chakama,O Galeboe	
1454				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1453	Sun 14/05/23 16:15	Wed 17/05/23 09:15	O Chakama,O Galeboe	
1455				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1454	Wed 17/05/23 09:15	Wed 17/05/23 09:30	O Chakama,O Galeboe	
1456				Confirm Correct Protection Settings	0.5 hrs	1455	Wed 17/05/23 09:30	Wed 17/05/23 10:00	O Chakama,O Galeboe	

 UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL FINAL EXECUTION DOCUMENT										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1457				Seal For Moisture And Dust.	1 hr	1456	Wed 17/05/23 10:00	Wed 17/05/23 11:00	O Chakama,O Galeboe	
1458				Clear Permit	0.25 hrs	1457	Wed 17/05/23 11:00	Wed 17/05/23 11:15	O Chakama,O Galeboe	
1459		53A2K-15A01	R362948	BASHUT-0126 - # 1 BOILER # 4 BED SAND REMOVAL SCREW Electrical Services - Carry out n	27.75 hrs		Fri 12/05/23 08:45	Sun 14/05/23 17:30		
1460				Make Out Permit	0.25 hrs	1408	Fri 12/05/23 08:45	Fri 12/05/23 09:00	Operations	
1461				Accept Permit	0.25 hrs	1460	Fri 12/05/23 09:00	Fri 12/05/23 09:15	O Chakama,O Galeboe	
1462				Carry Out Electrical Isolation	0.25 hrs	1461	Fri 12/05/23 09:15	Fri 12/05/23 09:30	O Chakama,O Galeboe	
1463				Ceck Loose Connections In The Panel	0.25 hrs	1462	Fri 12/05/23 09:30	Fri 12/05/23 09:45	O Chakama,O Galeboe	
1464				Check Contactor Contacts	0.5 hrs	1463	Fri 12/05/23 09:45	Fri 12/05/23 10:15	O Chakama,O Galeboe	
1465				Service Field Stop/Start	0.25 hrs	1464	Fri 12/05/23 10:15	Fri 12/05/23 10:30	O Chakama,O Galeboe	
1466				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1465	Fri 12/05/23 10:30	Sun 14/05/23 15:30	O Chakama,O Galeboe	
1467				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1466	Sun 14/05/23 15:30	Sun 14/05/23 15:45	O Chakama,O Galeboe	
1468				Confirm Correct Protection Settings	0.5 hrs	1467	Sun 14/05/23 15:45	Sun 14/05/23 16:15	O Chakama,O Galeboe	
1469				Seal For Moisture And Dust.	1 hr	1468	Sun 14/05/23 16:15	Sun 14/05/23 17:15	O Chakama,O Galeboe	
1470				Clear Permit	0.25 hrs	1469	Sun 14/05/23 17:15	Sun 14/05/23 17:30	O Chakama,O Galeboe	
1471		53A2K-16A01	R362967	BASHUT-0127 - # 1 BOILER # 5 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Fri 12/05/23 10:00	Mon 15/05/23 08:00		
1472				Make Out Permit	0.25 hrs	1421	Fri 12/05/23 10:00	Fri 12/05/23 10:15	Operations	
1473				Accept Permit	0.25 hrs	1472	Fri 12/05/23 10:15	Fri 12/05/23 10:30	O Galeboe,O Chakama	
1474				Carry Out Electrical Isolation	0.25 hrs	1473	Fri 12/05/23 10:30	Fri 12/05/23 10:45	O Galeboe,O Chakama	
1475				Check Loose Connections In The Panel	0.5 hrs	1474	Fri 12/05/23 10:45	Fri 12/05/23 11:15	O Galeboe,O Chakama	
1476				Check Contactor Contacts	0.5 hrs	1475	Fri 12/05/23 11:15	Fri 12/05/23 11:45	O Galeboe,O Chakama	
1477				Service Field Stop/Start	0.25 hrs	1476	Fri 12/05/23 11:45	Fri 12/05/23 12:00	O Galeboe,O Chakama	
1478				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1477	Fri 12/05/23 13:00	Sun 14/05/23 17:00	O Galeboe,O Chakama	
1479				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1478	Sun 14/05/23 17:00	Sun 14/05/23 17:15	O Galeboe,O Chakama	
1480				Confirm Correct Protection Settings	0.5 hrs	1479	Sun 14/05/23 17:15	Sun 14/05/23 17:45	O Galeboe,O Chakama	
1481				Seal For Moisture And Dust.	1 hr	1480	Sun 14/05/23 17:45	Mon 15/05/23 07:45	O Galeboe,O Chakama	
1482				Clear Permit	0.25 hrs	1481	Mon 15/05/23 07:45	Mon 15/05/23 08:00	O Galeboe,O Chakama	
1483		53A2K-17A01	R362975	BASHUT-0128 - # 1 BOILER # 6 BED SAND REMOVAL SCREW Electrical Services - Carry out n	30.25 hrs		Sun 14/05/23 15:00	Wed 17/05/23 15:15		
1484				Make Out Permit	0.25 hrs	1433,143	Sun 14/05/23 15:00	Sun 14/05/23 15:15	Operations	
1485				Accept Permit	0.25 hrs	1484	Sun 14/05/23 15:15	Sun 14/05/23 15:30	O Galeboe,O Chakama	
1486				Carry Out Electrical Isolation	0.25 hrs	1485	Sun 14/05/23 15:30	Sun 14/05/23 15:45	O Galeboe,O Chakama	
1487				Check Loose Connections In The Panel	0.5 hrs	1486	Sun 14/05/23 15:45	Sun 14/05/23 16:15	O Galeboe,O Chakama	
1488				Check Contactor Contacts	0.5 hrs	1487	Sun 14/05/23 16:15	Sun 14/05/23 16:45	O Galeboe,O Chakama	
1489				Service Field Stop/Start	2.5 hrs	1488	Sun 14/05/23 16:45	Mon 15/05/23 08:15	O Galeboe,O Chakama	
1490				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1489	Mon 15/05/23 08:15	Wed 17/05/23 13:15	O Galeboe,O Chakama	
1491				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1490	Wed 17/05/23 13:15	Wed 17/05/23 13:30	O Galeboe,O Chakama	
1492				Confirm Correct Protection Settings	0.5 hrs	1491	Wed 17/05/23 13:30	Wed 17/05/23 14:00	O Galeboe,O Chakama	
1493				Seal For Moisture And Dust.	1 hr	1492	Wed 17/05/23 14:00	Wed 17/05/23 15:00	O Galeboe,O Chakama	
1494				Clear Permit	0.25 hrs	1493	Wed 17/05/23 15:00	Wed 17/05/23 15:15	O Galeboe,O Chakama	
1495		53A2K-18A01	R362977	BASHUT-0130 - # 1 BOILER # 7 BED SAND REMOVAL SCREW Electrical Services - Carry out n	57 hrs		Sun 14/05/23 15:30	Sat 20/05/23 11:30		
1496				Make Out Permit	0.25 hrs	1485	Sun 14/05/23 15:30	Sun 14/05/23 15:45	Operations	
1497				Accept Permit	0.25 hrs	1496	Sun 14/05/23 15:45	Sun 14/05/23 16:00	O Galeboe,O Chakama	
1498				Carry Out Electrical Isolation	0.25 hrs	1497,149	Wed 17/05/23 15:00	Wed 17/05/23 15:15	O Galeboe,O Chakama	
1499				Check Loose Connections In The Panel	0.5 hrs	1498	Wed 17/05/23 15:15	Wed 17/05/23 15:45	O Galeboe,O Chakama	
1500				Check Contactor Contacts	0.5 hrs	1499	Wed 17/05/23 15:45	Wed 17/05/23 16:15	O Galeboe,O Chakama	
1501				Service Field Stop/Start	0.25 hrs	1500	Wed 17/05/23 16:15	Wed 17/05/23 16:30	O Galeboe,O Chakama	
1502				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1501	Wed 17/05/23 16:30	Sat 20/05/23 09:30	O Galeboe,O Chakama	
1503				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1502	Sat 20/05/23 09:30	Sat 20/05/23 09:45	O Galeboe,O Chakama	
1504				Confirm Correct Protection Settings	0.5 hrs	1503	Sat 20/05/23 09:45	Sat 20/05/23 10:15	O Galeboe,O Chakama	
1505				Seal For Moisture And Dust.	1 hr	1504	Sat 20/05/23 10:15	Sat 20/05/23 11:15	O Galeboe,O Chakama	
1506				Clear Permit	0.25 hrs	1505	Sat 20/05/23 11:15	Sat 20/05/23 11:30	O Galeboe,O Chakama	
1507		53A2K-19A01	R362978	BASHUT-0130 - # 1 BOILER # 8 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Sun 14/05/23 15:45	Wed 17/05/23 13:45		
1508				Make Out Permit	0.25 hrs	1496	Sun 14/05/23 15:45	Sun 14/05/23 16:00	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1509				Accept Permit	0.25 hrs	1508	Sun 14/05/23 16:00	Sun 14/05/23 16:15	O Chakama,O Galeboe	
1510				Carry Out Electrical Isolation	0.25 hrs	1509	Sun 14/05/23 16:15	Sun 14/05/23 16:30	O Chakama,O Galeboe	
1511				Check Loose Connections In The Panel	0.5 hrs	1510	Sun 14/05/23 16:30	Sun 14/05/23 17:00	O Chakama,O Galeboe	
1512				Check Contactor Contacts	0.5 hrs	1511	Sun 14/05/23 17:00	Sun 14/05/23 17:30	O Chakama,O Galeboe	
1513				Service Field Stop/Start	0.25 hrs	1512	Sun 14/05/23 17:30	Sun 14/05/23 17:45	O Chakama,O Galeboe	
1514				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1513	Sun 14/05/23 17:45	Wed 17/05/23 10:45	O Chakama,O Galeboe	
1515				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1514	Wed 17/05/23 10:45	Wed 17/05/23 11:00	O Chakama,O Galeboe	
1516				Confirm Correct Protection Settings	0.5 hrs	1515	Wed 17/05/23 11:00	Wed 17/05/23 11:30	O Chakama,O Galeboe	
1517				Seal For Moisture And Dust.	1 hr	1516	Wed 17/05/23 11:30	Wed 17/05/23 13:30	O Chakama,O Galeboe	
1518				Clear Permit	0.25 hrs	1517	Wed 17/05/23 13:30	Wed 17/05/23 13:45	O Chakama,O Galeboe	
1519		53A2K-20A01	R362979	BASHUT-0131 - # 1 BOILER # 9 BED SAND REMOVAL SCREW Electrical Services - Carry out n	29.25 hrs		Sun 14/05/23 16:00	Wed 17/05/23 15:15		
1520				Make Out Permit	0.25 hrs	1508	Sun 14/05/23 16:00	Sun 14/05/23 16:15	Operations	
1521				Accept Permit	0.25 hrs	1520	Sun 14/05/23 16:15	Sun 14/05/23 16:30	O Galeboe,O Chakama	
1522				Carry Out Electrical Isolation	0.25 hrs	1521,151	Sun 14/05/23 17:45	Sun 14/05/23 18:00	O Galeboe,O Chakama	
1523				Check Loose Connections In The Panel	0.5 hrs	1522	Sun 14/05/23 18:00	Mon 15/05/23 07:30	O Galeboe,O Chakama	
1524				Check Contactor Contacts	0.5 hrs	1523	Mon 15/05/23 07:30	Mon 15/05/23 08:00	O Galeboe,O Chakama	
1525				Service Field Stop/Start	0.25 hrs	1524	Mon 15/05/23 08:00	Mon 15/05/23 08:15	O Galeboe,O Chakama	
1526				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1525	Mon 15/05/23 08:15	Wed 17/05/23 13:15	O Galeboe,O Chakama	
1527				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1526	Wed 17/05/23 13:15	Wed 17/05/23 13:30	O Galeboe,O Chakama	
1528				Confirm Correct Protection Settings	0.5 hrs	1527	Wed 17/05/23 13:30	Wed 17/05/23 14:00	O Galeboe,O Chakama	
1529				Seal For Moisture And Dust.	1 hr	1528	Wed 17/05/23 14:00	Wed 17/05/23 15:00	O Galeboe,O Chakama	
1530				Clear Permit	0.25 hrs	1529	Wed 17/05/23 15:00	Wed 17/05/23 15:15	O Galeboe,O Chakama	
1531		53A2K-21A01	R362980	BASHUT-0132 - # 1 BOILER # 10 BED SAND REMOVAL SCREW Electrical Services - Carry out	29.25 hrs		Sun 14/05/23 16:15	Wed 17/05/23 15:30		
1532				Make Out Permit	0.25 hrs	1509	Sun 14/05/23 16:15	Sun 14/05/23 16:30	Operations	
1533				Accept Permit	0.25 hrs	1532	Sun 14/05/23 16:30	Sun 14/05/23 16:45	O Chakama,O Galeboe	
1534				Carry Out Electrical Isolation	0.25 hrs	1533,152	Sun 14/05/23 18:00	Mon 15/05/23 07:15	O Chakama,O Galeboe	
1535				Check Loose Connections In The Panel	0.5 hrs	1534	Mon 15/05/23 07:15	Mon 15/05/23 07:45	O Chakama,O Galeboe	
1536				Check Contactor Contacts	0.5 hrs	1535	Mon 15/05/23 07:45	Mon 15/05/23 08:15	O Chakama,O Galeboe	
1537				Service Field Stop/Start	0.25 hrs	1536	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Chakama,O Galeboe	
1538				Check Geared Unit Oil Leakage Into The Motor	24 hrs	1537	Mon 15/05/23 08:30	Wed 17/05/23 13:30	O Chakama,O Galeboe	
1539				Tighten Motor Connections& Gland Intergrity	0.25 hrs	1538	Wed 17/05/23 13:30	Wed 17/05/23 13:45	O Chakama,O Galeboe	
1540				Confirm Correct Protection Settings	0.5 hrs	1539	Wed 17/05/23 13:45	Wed 17/05/23 14:15	O Chakama,O Galeboe	
1541				Seal For Moisture And Dust.	1 hr	1540	Wed 17/05/23 14:15	Wed 17/05/23 15:15	O Chakama,O Galeboe	
1542				Clear Permit	0.25 hrs	1541	Wed 17/05/23 15:15	Wed 17/05/23 15:30	O Chakama,O Galeboe	
1543				INSTRUMENTATION	131.75 hrs	9	Sun 07/05/23 16:00	Sat 20/05/23 17:45		
1544		53A UTIL STRUCT	R362983	BASHUT-0133 - THERMOCOUPLES POCKETS - Recondition	62.25 hrs		Sun 07/05/23 16:00	Sun 14/05/23 07:15		
1545				Make out permit	0.75 hrs	1111	Sun 07/05/23 16:00	Sun 07/05/23 16:45	Foreman	
1546				Accept permit	0.5 hrs	1545	Sun 07/05/23 16:45	Sun 07/05/23 17:15	Operations	
1547				Inspect and identify damaged pockets	4 hrs	1546	Sun 07/05/23 17:15	Mon 08/05/23 10:15	BM-Util1	
1548				Cut out old pockets	26 hrs	1547	Mon 08/05/23 10:15	Wed 10/05/23 17:15	BM-Util1	
1549				Weld in new pockets	30 hrs	1548	Wed 10/05/23 17:15	Sat 13/05/23 17:15	INS-Util2	
1550				Clear permit	1 hr	1549	Sat 13/05/23 17:15	Sun 14/05/23 07:15	BM-Util1	
1551		53PC101	R362985	BASHUT-0134 - # 1 BOILER 1 DUMP VALVE - Inspect valve	22.75 hrs		Tue 09/05/23 18:00	Fri 12/05/23 09:45		
1552				Erect Scaffold (Prior)	0 hrs	1104	Tue 09/05/23 18:00	Tue 09/05/23 18:00	G moiseraela,J Mosenya,T Mmatli	
1553				Make Out Permit	0.25 hrs	1104,155	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Operations	
1554				Accept Permit	0.25 hrs	1553	Wed 10/05/23 07:15	Wed 10/05/23 07:30	O Gobotswang,K Ntatane	
1555				Disconnect Valve Instruments	2.5 hrs	1554	Wed 10/05/23 07:30	Wed 10/05/23 10:00	O Gobotswang,K Ntatane	
1556				Inspect Valve	13 hrs	1555	Wed 10/05/23 10:00	Thu 11/05/23 14:00	O Gobotswang,K Ntatane	
1557				Reconnect Valve	4 hrs	1556	Thu 11/05/23 14:00	Thu 11/05/23 18:00	K Ntatane,O Gobotswang,App Weld(cci)	
1558				Stroke Check Valve To Dcs	1.5 hrs	1557	Fri 12/05/23 07:00	Fri 12/05/23 08:30	O Gobotswang,K Ntatane	
1559				Carry Out Inspection	1 hr	1558	Fri 12/05/23 08:30	Fri 12/05/23 09:30	O Gobotswang,K Ntatane	
1560				Clear Permit	0.25 hrs	1559	Fri 12/05/23 09:30	Fri 12/05/23 09:45	O Gobotswang,K Ntatane	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
1561				Remove Scaffold	0 hrs	1560	Fri 12/05/23 09:45	Fri 12/05/23 09:45	
1562		53A2GB01A01	R362986	BASHUT-0135 - # 1 BOILER UNDERBED DAMPERS - Overhaul damper cylinders	49.75 hrs		Sun 14/05/23 16:30	Fri 19/05/23 16:15	
1563				Make Out Permit	0.25 hrs	1532	Sun 14/05/23 16:30	Sun 14/05/23 16:45	Operations
1564				Accept Permit	0.25 hrs	1563	Sun 14/05/23 16:45	Sun 14/05/23 17:00	O Gobotswang,K Ntatane
1565				Stroke All Dampers	6 hrs	1564	Sun 14/05/23 17:00	Mon 15/05/23 12:00	O Gobotswang,K Ntatane
1566				Remove Faulty Dampers	6 hrs	1565	Mon 15/05/23 12:00	Tue 16/05/23 08:00	O Gobotswang,K Ntatane
1567				Overhaul Dampers	10 hrs	1566	Tue 16/05/23 08:00	Wed 17/05/23 08:00	O Gobotswang,K Ntatane
1568				Replace dampers	14 hrs	1567	Wed 17/05/23 08:00	Thu 18/05/23 12:00	O Gobotswang,K Ntatane
1569				Stroke Dampers	12 hrs	1568	Thu 18/05/23 12:00	Fri 19/05/23 15:00	O Gobotswang,K Ntatane
1570				Carry Out Inspection	1 hr	1569	Fri 19/05/23 15:00	Fri 19/05/23 16:00	J Baaisi
1571				Clear Permit	0.25 hrs	1570	Fri 19/05/23 16:00	Fri 19/05/23 16:15	O Gobotswang,K Ntatane
1572		53A2GA09A03	R362989	BASHUT-0136 - # 1 BOILER BURNERS - 1,2,3, 4 - Overhaul igniters	27.75 hrs		Tue 09/05/23 14:00	Fri 12/05/23 10:45	
1573				Make Out Permt	0.75 hrs	1162	Tue 09/05/23 14:00	Tue 09/05/23 14:45	Operations
1574				Accept Permit	0.5 hrs	1573	Tue 09/05/23 14:45	Tue 09/05/23 15:15	O Gobotswang,K Ntatane
1575				Remove Igniters	4 hrs	1574	Tue 09/05/23 15:15	Wed 10/05/23 08:15	O Gobotswang,K Ntatane
1576				Overhaul Igniters	15 hrs	1575	Wed 10/05/23 08:15	Thu 11/05/23 14:15	O Gobotswang,K Ntatane
1577				Install Igniters	4 hrs	1576	Thu 11/05/23 14:15	Fri 12/05/23 07:15	O Gobotswang,K Ntatane
1578				Carry Out Inspection	2.5 hrs	1577	Fri 12/05/23 07:15	Fri 12/05/23 09:45	J Baaisi
1579				Clear Permit	1 hr	1578	Fri 12/05/23 09:45	Fri 12/05/23 10:45	O Gobotswang,K Ntatane
1580		53A6F100	R362991	BASHUT-0137 - # 1 BOILER FEED WATER CONTROL VALVE - Overhaul valve	31.25 hrs		Wed 10/05/23 07:15	Sat 13/05/23 08:30	
1581				Make Out Permit	1 hr	1553	Wed 10/05/23 07:15	Wed 10/05/23 08:15	Operations
1582				Accept Permit	0.5 hrs	1581	Wed 10/05/23 08:15	Wed 10/05/23 08:45	K Ntatane,O Gobotswang
1583				Disconnect Valve	2.5 hrs	1582	Wed 10/05/23 08:45	Wed 10/05/23 11:15	K Ntatane,O Gobotswang
1584				Remove Valve	3 hrs	1583	Wed 10/05/23 11:15	Wed 10/05/23 15:15	30Tcrane,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David
1585				Transport Valve To Workshop	1 hr	1584	Wed 10/05/23 15:15	Wed 10/05/23 16:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
1586				Overhaul Valve	12 hrs	1585	Wed 10/05/23 16:15	Fri 12/05/23 07:15	App Weld(cci),K Ntatane,O Gobotswang
1587				Transport Valve To Plant	1.75 hrs	1586	Fri 12/05/23 07:15	Fri 12/05/23 09:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
1588				Replace Valve	4 hrs	1587	Fri 12/05/23 09:00	Fri 12/05/23 14:00	30Tcrane,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David
1589				Reconnect Valve	2.5 hrs	1588	Fri 12/05/23 14:00	Fri 12/05/23 16:30	App Weld(cci),K Ntatane,O Gobotswang
1590				Stroke Check Valve To Dcs	1 hr	1589	Fri 12/05/23 16:30	Fri 12/05/23 17:30	K Ntatane,O Gobotswang
1591				Carry Out Inspection	1 hr	1590	Fri 12/05/23 17:30	Sat 13/05/23 07:30	J Baaisi
1592				Clear Permit	1 hr	1591	Sat 13/05/23 07:30	Sat 13/05/23 08:30	K Ntatane,O Gobotswang
1593		53A	R362992	BASHUT-0138 - # 1 BOILER PRESSURE GAUGES - Calibrate & service gauges	27 hrs		Wed 10/05/23 08:15	Fri 12/05/23 16:15	
1594				Make Out Permit	0.75 hrs	1581	Wed 10/05/23 08:15	Wed 10/05/23 09:00	Operations
1595				Accept Permit	0.5 hrs	1594	Wed 10/05/23 09:00	Wed 10/05/23 09:30	K Ntatane,O Gobotswang
1596				Remove All Press. Gauges	5 hrs	1583,1595	Wed 10/05/23 11:15	Wed 10/05/23 17:15	K Ntatane,O Gobotswang
1597				Cal.& Service Gauges	6 hrs	1596	Wed 10/05/23 17:15	Thu 11/05/23 13:15	K Ntatane,O Gobotswang
1598				Mark All Gauges	4 hrs	1597	Thu 11/05/23 13:15	Thu 11/05/23 17:15	K Ntatane,O Gobotswang
1599				Replace All Pressure Gauges	7 hrs	1598	Thu 11/05/23 17:15	Fri 12/05/23 14:15	K Ntatane,O Gobotswang
1600				Carry Out Inspection	1 hr	1599	Fri 12/05/23 14:15	Fri 12/05/23 15:15	J Baaisi
1601				Clear Permit	1 hr	1600	Fri 12/05/23 15:15	Fri 12/05/23 16:15	K Ntatane,O Gobotswang
1602		53A6F101	R362993	BASHUT-0139 - # 1 BOILER DRUM CONSTANT BLOWDOWN VALVE - Service valve	53 hrs		Wed 10/05/23 09:00	Mon 15/05/23 12:00	
1603				Make Out Permit	0.75 hrs	1594	Wed 10/05/23 09:00	Wed 10/05/23 09:45	Operations
1604				Accept Permit	0.5 hrs	1603	Wed 10/05/23 09:45	Wed 10/05/23 10:15	K Ntatane,O Gobotswang
1605				Disconnect Valve Instruments	4 hrs	1604	Wed 10/05/23 10:15	Wed 10/05/23 15:15	K Ntatane,O Gobotswang
1606				Remove Valve	5 hrs	1605	Wed 10/05/23 15:15	Thu 11/05/23 09:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat
1607				Transport To Workshop	1 hr	1606	Thu 11/05/23 09:15	Thu 11/05/23 10:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
1608				Overhaul Valve	24 hrs	1607	Thu 11/05/23 10:15	Sat 13/05/23 15:15	App Weld(cci),K Ntatane,O Gobotswang
1609				Transport To Plant	1 hr	1608	Sat 13/05/23 15:15	Sat 13/05/23 16:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
1610				Install Valve	3 hrs	1609	Sat 13/05/23 16:15	Sun 14/05/23 08:15	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L D
1611				Reconnect Valve Instruments	5 hrs	1610	Sun 14/05/23 08:15	Sun 14/05/23 14:15	App Weld(cci),K Ntatane,O Gobotswang
1612				Stroke Check Valve To Dcs	5.25 hrs	1611	Sun 14/05/23 14:15	Mon 15/05/23 08:30	K Ntatane,O Gobotswang



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names			
1613		53A6TV 104A	R362995	Carry Out Inspection	2.5 hrs	1612	Mon 15/05/23 08:30	Mon 15/05/23 11:00	J Baaisi			
1614				Clear Permit	1 hr	1613	Mon 15/05/23 11:00	Mon 15/05/23 12:00	K Ntatane,O Gobotswang			
1615				BASHUT-0140 - # 1 BOILER SUPERHEATER SECONDARY TEMP VALVE,Rhs - Remove & overh	45.75 hrs		Wed 10/05/23 09:00	Sun 14/05/23 15:45				
1616				Make Out Permit	0.75 hrs	1594	Wed 10/05/23 09:00	Wed 10/05/23 09:45	Operations			
1617				Accept Permit	0.5 hrs	1616	Wed 10/05/23 09:45	Wed 10/05/23 10:15	K Ntatane,O Gobotswang			
1618				Disconnect Valve Instruments	4 hrs	1617	Wed 10/05/23 10:15	Wed 10/05/23 15:15	K Ntatane,O Gobotswang			
1619				Remove Valve	4.5 hrs	1618	Wed 10/05/23 15:15	Thu 11/05/23 08:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat			
1620				Transport To Workshop	1 hr	1619	Thu 11/05/23 08:45	Thu 11/05/23 09:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1621				Overhaul Valve	24 hrs	1620	Thu 11/05/23 09:45	Sat 13/05/23 14:45	App Weld(cci),K Ntatane,O Gobotswang			
1622				Transport To Plant	1 hr	1621	Sat 13/05/23 14:45	Sat 13/05/23 15:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1623		53A6TV 108A	R363001	Install Valve	3 hrs	1622	Sat 13/05/23 15:45	Sun 14/05/23 07:45	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L D			
1624				Reconnect Valve Instruments	4 hrs	1623	Sun 14/05/23 07:45	Sun 14/05/23 11:45	App Weld(cci),K Ntatane,O Gobotswang			
1625				Stroke Check Valve To Dcs	1 hr	1624	Sun 14/05/23 11:45	Sun 14/05/23 13:45	K Ntatane,O Gobotswang			
1626				Carry Out Inspection	1 hr	1625	Sun 14/05/23 13:45	Sun 14/05/23 14:45	J Baaisi			
1627				Clear Permit	1 hr	1626	Sun 14/05/23 14:45	Sun 14/05/23 15:45	K Ntatane,O Gobotswang			
1628				BASHUT-0141 - # 1 BOILER FINAL SHTR DHR INLET , Lhs - Remove & overhaul (spray water)	77.75 hrs		Wed 10/05/23 10:15	Thu 18/05/23 08:00				
1629				Make Out Permit	0.75 hrs	1617	Wed 10/05/23 10:15	Wed 10/05/23 11:00	Operations			
1630				Accept Permit	0.5 hrs	1629	Wed 10/05/23 11:00	Wed 10/05/23 11:30	O Gobotswang,K Ntatane			
1631				Disconnect Valve Instruments	9.5 hrs	1618SS,1	Wed 10/05/23 11:30	Thu 11/05/23 11:00	O Gobotswang,K Ntatane			
1632				Remove Valve	3 hrs	1619,163	Thu 11/05/23 11:00	Thu 11/05/23 15:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat			
1633		53A6TV 104B	R363012	Transport To Workshop	1 hr	1620,163	Thu 11/05/23 15:00	Thu 11/05/23 16:00	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane			
1634				Overhaul Valve	24 hrs	1621SS,1	Thu 11/05/23 16:00	Sun 14/05/23 09:00	K Ntatane,O Gobotswang,App Weld(cci)			
1635				Transport To Plant	1 hr	1634	Sun 14/05/23 09:00	Sun 14/05/23 10:00	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane			
1636				Install Valve	6 hrs	1635	Sun 14/05/23 10:00	Sun 14/05/23 17:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,App Weld(cci),L D			
1637				Reconnect Valve Instruments	13 hrs	1636	Sun 14/05/23 17:00	Tue 16/05/23 09:00	K Ntatane,O Gobotswang,App Weld(cci)			
1638				Stroke Check Valve To Dcs	9 hrs	1637	Tue 16/05/23 09:00	Wed 17/05/23 08:00	O Gobotswang,K Ntatane			
1639				Carry Out Inspection	9 hrs	1638	Wed 17/05/23 08:00	Wed 17/05/23 18:00	J Baaisi			
1640				Clear Permit	1 hr	1639	Wed 17/05/23 18:00	Thu 18/05/23 08:00	O Gobotswang,K Ntatane			
1641				53A6TV 104B	R363012	BASHUT- 0142 - # 1 BOILER SUPERHEATER SECONDARY TEMP VALVE,Lhs - Remove& overh	59 hrs		Wed 10/05/23 11:00		Tue 16/05/23 10:00	
1642				53A6TV 104B	R363012	Make Out Permit	0.75 hrs	1629	Wed 10/05/23 11:00		Wed 10/05/23 11:45	Operations
1643		Accept Permit	0.5 hrs			1642	Wed 10/05/23 11:45	Wed 10/05/23 13:15	K Ntatane,O Gobotswang			
1644		Disconnect Valve Instruments	4 hrs			1631SS,1	Wed 10/05/23 13:15	Wed 10/05/23 17:15	K Ntatane,O Gobotswang			
1645		Remove Valve	3 hrs			1632,164	Thu 11/05/23 15:00	Thu 11/05/23 18:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat			
1646		Transport To Workshop	1 hr			1633,164	Thu 11/05/23 18:00	Fri 12/05/23 08:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1647		Overhaul Valve	24 hrs			1634SS,1	Fri 12/05/23 08:00	Sun 14/05/23 12:00	App Weld(cci),K Ntatane,O Gobotswang			
1648		Transport To Plant	1 hr			1647,163	Sun 14/05/23 12:00	Sun 14/05/23 14:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1649		Install Valve	6 hrs			1648	Sun 14/05/23 14:00	Mon 15/05/23 09:00	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L D			
1650		Reconnect Valve Instruments	5 hrs			1649	Mon 15/05/23 09:00	Mon 15/05/23 15:00	App Weld(cci),K Ntatane,O Gobotswang			
1651		Stroke Check Valve To Dcs	2.5 hrs			1650	Mon 15/05/23 15:00	Mon 15/05/23 17:30	K Ntatane,O Gobotswang			
1652		53TV 108B	R363015	Carry Out Inspection	2.5 hrs	1651	Mon 15/05/23 17:30	Tue 16/05/23 09:00	J Baaisi			
1653				Clear Permit	1 hr	1652	Tue 16/05/23 09:00	Tue 16/05/23 10:00	K Ntatane,O Gobotswang			
1654				BASHUT-0143 - # 1 BOILER FINAL SHTR DHR INLET , Rhs - Remove & overhaul (spray water)	51.25 hrs		Wed 10/05/23 09:45	Mon 15/05/23 11:00				
1655				Make Out Permit	0.75 hrs	1616	Wed 10/05/23 09:45	Wed 10/05/23 10:30	Operations			
1656				Accept Permit	0.5 hrs	1655	Wed 10/05/23 10:30	Wed 10/05/23 11:00	K Ntatane,O Gobotswang			
1657				Disconnect Valve Instruments	4 hrs	1656	Wed 10/05/23 11:00	Wed 10/05/23 16:00	K Ntatane,O Gobotswang			
1658				Remove Valve	3 hrs	1657	Wed 10/05/23 16:00	Thu 11/05/23 08:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat			
1659				Transport To Workshop	1 hr	1658	Thu 11/05/23 08:00	Thu 11/05/23 09:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1660				Overhaul Valve	24 hrs	1659	Thu 11/05/23 09:00	Sat 13/05/23 14:00	App Weld(cci),K Ntatane,O Gobotswang			
1661				Transport To Plant	1 hr	1660	Sat 13/05/23 14:00	Sat 13/05/23 15:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya			
1662		53TV 108B	R363015	Install Valve	6 hrs	1661	Sat 13/05/23 15:00	Sun 14/05/23 10:00	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L D			
1663				Reconnect Valve Instruments	5 hrs	1662	Sun 14/05/23 10:00	Sun 14/05/23 16:00	App Weld(cci),K Ntatane,O Gobotswang			
1664				Stroke Check Valve To Dcs	2.5 hrs	1663	Sun 14/05/23 16:00	Mon 15/05/23 07:30	K Ntatane,O Gobotswang			

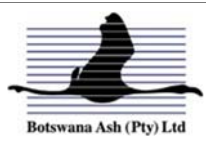


ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1665				Carry Out Inspection	2.5 hrs	1664	Mon 15/05/23 07:30	Mon 15/05/23 10:00	J Baaisi	
1666				Clear Permit	1 hr	1665	Mon 15/05/23 10:00	Mon 15/05/23 11:00	K Ntatane,O Gobotswang	
1667		53TI133	R363017	BASHUT-0144 - Boiler 1 ID Fan - Mount and connect box	41.25 hrs		Wed 10/05/23 09:15	Sun 14/05/23 10:30		
1668				Make out permit	0.75 hrs	1347	Wed 10/05/23 09:15	Wed 10/05/23 10:00	Operations	
1669				Accept permit	0.5 hrs	1668	Wed 10/05/23 10:00	Wed 10/05/23 10:30	K Ntatane,O Gobotswang	
1670				Remove old instruments and box	5 hrs	1669	Wed 10/05/23 10:30	Wed 10/05/23 16:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1671				Prepare for the new instruments and box	4 hrs	1670	Wed 10/05/23 16:30	Thu 11/05/23 09:30	K Ntatane,O Gobotswang	
1672				Installation of probes	4 hrs	1671	Thu 11/05/23 09:30	Thu 11/05/23 14:30	L David,J Mothatego,K Ntatane,O Gobotswang	
1673				Mount and connect box	5 hrs	1672	Thu 11/05/23 14:30	Fri 12/05/23 08:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1674				Change configuration from old to new set up	5 hrs	1673	Fri 12/05/23 08:30	Fri 12/05/23 14:30	K Ntatane,O Gobotswang	
1675				Simulation of trip checks to DCS and Field	4 hrs	1674	Fri 12/05/23 14:30	Sat 13/05/23 07:30	K Ntatane,O Gobotswang	
1676				Reconnect new probes to the new system	4 hrs	1675	Sat 13/05/23 07:30	Sat 13/05/23 11:30	K Ntatane,O Gobotswang	
1677				Reconnect new probes to the new system	4 hrs	1676	Sat 13/05/23 11:30	Sat 13/05/23 16:30	K Ntatane,O Gobotswang	
1678				Check and compare readings for local, field and DCS adjust where necessary 4.0hrs	4 hrs	1677	Sat 13/05/23 16:30	Sun 14/05/23 09:30	K Ntatane,O Gobotswang	
1679				Clear permit	1 hr	1678	Sun 14/05/23 09:30	Sun 14/05/23 10:30	K Ntatane,O Gobotswang	
1680		53TI111	R363018	BASHUT-0145 - Boiler 1 FD Fan 1 - Mount and connect box	41.25 hrs		Wed 10/05/23 10:00	Sun 14/05/23 11:15		
1681				Make out permit	0.75 hrs	1668	Wed 10/05/23 10:00	Wed 10/05/23 10:45	Operations	
1682				Accept permit	0.5 hrs	1681	Wed 10/05/23 10:45	Wed 10/05/23 11:15	K Ntatane,O Gobotswang	
1683				remove old instruments and box	5 hrs	1682	Wed 10/05/23 11:15	Wed 10/05/23 17:15	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1684				prepare for the new instruments and box	4 hrs	1683	Wed 10/05/23 17:15	Thu 11/05/23 10:15	K Ntatane,O Gobotswang	
1685				installation of probes	4 hrs	1684	Thu 11/05/23 10:15	Thu 11/05/23 15:15	L David,J Mothatego,K Ntatane,O Gobotswang	
1686				mount and connect box	5 hrs	1685	Thu 11/05/23 15:15	Fri 12/05/23 09:15	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1687				change configuration from old to new set up	5 hrs	1686	Fri 12/05/23 09:15	Fri 12/05/23 15:15	K Ntatane,O Gobotswang	
1688				simulation of trip checks to DCS and Field	4 hrs	1687	Fri 12/05/23 15:15	Sat 13/05/23 08:15	K Ntatane,O Gobotswang	
1689				reconnect new probes to the new system	4 hrs	1688	Sat 13/05/23 08:15	Sat 13/05/23 13:15	K Ntatane,O Gobotswang	
1690				reconnect new probes to the new system	4 hrs	1689	Sat 13/05/23 13:15	Sat 13/05/23 17:15	K Ntatane,O Gobotswang	
1691				check and compare readings for local, field and DCS adjust where necessary 4.0hrs	4 hrs	1690	Sat 13/05/23 17:15	Sun 14/05/23 10:15	K Ntatane,O Gobotswang	
1692				Clear permit	1 hr	1691	Sun 14/05/23 10:15	Sun 14/05/23 11:15	K Ntatane,O Gobotswang	
1693		53TI211	R363019	BASHUT-0146 - Boiler 1 FD Fan 2 - Mount and connect box	80.75 hrs		Wed 10/05/23 10:45	Thu 18/05/23 11:30		
1694				Make out permit	0.25 hrs	1681	Wed 10/05/23 10:45	Wed 10/05/23 11:00	Operations	
1695				Accept permit	0.25 hrs	1694	Wed 10/05/23 11:00	Wed 10/05/23 11:15	K Ntatane,O Gobotswang	
1696				remove old instruments and box	6 hrs	1695	Wed 10/05/23 11:15	Thu 11/05/23 07:15	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1697				prepare for the new instruments and box	10 hrs	1696	Thu 11/05/23 07:15	Fri 12/05/23 07:15	K Ntatane,O Gobotswang	
1698				installation of probes	12 hrs	1697	Fri 12/05/23 07:15	Sat 13/05/23 09:15	L David,J Mothatego,K Ntatane,O Gobotswang	
1699				mount and connect box	8 hrs	1698	Sat 13/05/23 09:15	Sun 14/05/23 07:15	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
1700				change configuration from old to new set up	16 hrs	1699	Sun 14/05/23 07:15	Mon 15/05/23 14:15	K Ntatane,O Gobotswang	
1701				simulation of trip checks to DCS and Field	10 hrs	1700	Mon 15/05/23 14:15	Tue 16/05/23 14:15	K Ntatane,O Gobotswang	
1702				reconnect new probes to the new system	8 hrs	1701	Tue 16/05/23 14:15	Wed 17/05/23 11:15	K Ntatane,O Gobotswang	
1703				reconnect new probes to the new system	4 hrs	1702	Wed 17/05/23 11:15	Wed 17/05/23 16:15	K Ntatane,O Gobotswang	
1704				check and compare readings for local, field and DCS adjust where necessary 4.0hrs	6 hrs	1703	Wed 17/05/23 16:15	Thu 18/05/23 11:15	K Ntatane,O Gobotswang	
1705				Clear permit	0.25 hrs	1704	Thu 18/05/23 11:15	Thu 18/05/23 11:30	K Ntatane,O Gobotswang	
1706			R363020	BASHUT-0147 - Airflow Calibration	20.75 hrs		Thu 18/05/23 11:30	Sat 20/05/23 13:15		
1707				Make out permit	0.25 hrs	1694,1706	Thu 18/05/23 11:30	Thu 18/05/23 11:45	Operations	
1708				Accept permit	0.25 hrs	1707	Thu 18/05/23 11:45	Thu 18/05/23 12:00	K Ntatane,O Gobotswang	
1709				Connect Pitot tube	10 hrs	1708	Thu 18/05/23 13:00	Fri 19/05/23 12:00	K Ntatane,O Gobotswang,O Tshwene	
1710				Measure duct pressure	4 hrs	1709	Fri 19/05/23 13:00	Fri 19/05/23 17:00	K Ntatane,O Gobotswang,O Tshwene	
1711				Recoarding at different insertion points	6 hrs	1710	Fri 19/05/23 17:00	Sat 20/05/23 12:00	K Ntatane,O Gobotswang	
1712				Clear permit	0.25 hrs	1711	Sat 20/05/23 12:00	Sat 20/05/23 13:15	K Ntatane,O Gobotswang	
1713		53A2BB01A01	R363022	BASHUT-0148 - # 1 BOILER THERMOCOUPLE POCKETS - Inspection	36.75 hrs		Wed 17/05/23 10:00	Sat 20/05/23 17:45		
1714				Make Out Permit	0.25 hrs	1123	Wed 17/05/23 10:00	Wed 17/05/23 10:15	Operations	
1715				Accept Permit	0.25 hrs	1714	Wed 17/05/23 10:15	Wed 17/05/23 10:30	K Ntatane,O Gobotswang	
1716				Inspect Pockets And Thermocouples	4 hrs	1715	Wed 17/05/23 10:30	Wed 17/05/23 15:30	K Ntatane,O Gobotswang,L David,J Mothatego	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1717				Remove Damaged Pockets	12 hrs	1716	Wed 17/05/23 15:30	Thu 18/05/23 17:30	K Ntatane,O Gobotswang,L David,J Mothatego	
1718				Installation With New Ones	20 hrs	1717	Thu 18/05/23 17:30	Sat 20/05/23 17:30	K Ntatane,O Gobotswang	
1719				Clear Permit	0.25 hrs	1718	Sat 20/05/23 17:30	Sat 20/05/23 17:45	K Ntatane,O Gobotswang	
1720		53A6LC 100/A	R363023	BASHUT-0149 - # 1 BOILER DRUM LEVEL - Inspect conductivity probes	10.25 hrs		Wed 17/05/23 10:15	Thu 18/05/23 10:30		
1721				Make Out Permit	0.75 hrs	1714	Wed 17/05/23 10:15	Wed 17/05/23 11:00	Operations	
1722				Accept Permit	0.5 hrs	1721	Wed 17/05/23 11:00	Wed 17/05/23 11:30	K Ntatane,O Gobotswang	
1723				Replace Clark Reliance Probe Cables	4 hrs	1722	Wed 17/05/23 11:30	Wed 17/05/23 16:30	K Ntatane,O Gobotswang	
1724				Inspect Level Transmitter	4 hrs	1723	Wed 17/05/23 16:30	Thu 18/05/23 09:30	K Ntatane,O Gobotswang	
1725				Clear Permit	1 hr	1724	Thu 18/05/23 09:30	Thu 18/05/23 10:30	K Ntatane,O Gobotswang	
1726		53A2GB01A01	R363024	BASHUT-0150 - # 1 BOILER FD FAN 1 - Check all trips	22.75 hrs		Thu 18/05/23 11:45	Sat 20/05/23 15:30		
1727				Make Out Permit	0.25 hrs	1707	Thu 18/05/23 11:45	Thu 18/05/23 12:00	Operations	
1728				Accept Permit	0.25 hrs	1727	Thu 18/05/23 12:00	Thu 18/05/23 13:15	O Gobotswang,K Ntatane	
1729				Check All Trips	20 hrs	1728	Thu 18/05/23 13:15	Sat 20/05/23 13:15	K Ntatane,O Gobotswang,Operations	
1730				Carry Out Inspection	2 hrs	1729	Sat 20/05/23 13:15	Sat 20/05/23 15:15	Pilot Madeswi	
1731				Clear Permit	0.25 hrs	1730	Sat 20/05/23 15:15	Sat 20/05/23 15:30	O Gobotswang,K Ntatane	
1732		53A2GB01A02	R363025	BASHUT-0151 - # 1 BOILER FD FAN 2 - Check all trips	14.75 hrs		Thu 18/05/23 13:00	Fri 19/05/23 17:45		
1733				Make Out Permit	0.25 hrs	1727	Thu 18/05/23 13:00	Thu 18/05/23 13:15	Operations	
1734				Accept Permit	0.25 hrs	1733	Thu 18/05/23 13:15	Thu 18/05/23 13:30	K Ntatane,O Gobotswang	
1735				Check All Trips	4 hrs	1734	Thu 18/05/23 13:30	Thu 18/05/23 17:30	Operations,K Ntatane,O Gobotswang	
1736				Carry Out Inspection	10 hrs	1735	Thu 18/05/23 17:30	Fri 19/05/23 17:30	Pilot Madeswi	
1737				Clear Permit	0.25 hrs	1736	Fri 19/05/23 17:30	Fri 19/05/23 17:45	K Ntatane,O Gobotswang	
1738		53A2GB01A01	R363027	BASHUT-0152 - # 1 BOILER FD FAN1 - Service damper cylinders	22.75 hrs		Thu 18/05/23 12:00	Sat 20/05/23 15:45		
1739				Make Out Permit	0.25 hrs	1727	Thu 18/05/23 12:00	Thu 18/05/23 13:15	Operations	
1740				Accept Permit	0.25 hrs	1739	Thu 18/05/23 13:15	Thu 18/05/23 13:30	K Ntatane,O Gobotswang	
1741				Remove Damper	2 hrs	1740	Thu 18/05/23 13:30	Thu 18/05/23 15:30	L David,J Mothatego	
1742				Service Dampers Cylinders In Workshop	6 hrs	1741	Thu 18/05/23 15:30	Fri 19/05/23 10:30	K Ntatane,O Gobotswang	
1743				Install Cylinder	8 hrs	1742	Fri 19/05/23 10:30	Sat 20/05/23 08:30	K Ntatane,O Gobotswang,L David,J Mothatego	
1744				Carry Out Inspection	6 hrs	1743	Sat 20/05/23 08:30	Sat 20/05/23 15:30	Pilot Madeswi	
1745				Clear Permit	0.25 hrs	1744	Sat 20/05/23 15:30	Sat 20/05/23 15:45	K Ntatane,O Gobotswang	
1746		53A2GB01A02	R363028	BASHUT-0154 - # 1 BOILER FD FAN 2 - Service damper cylinders	22.75 hrs		Thu 18/05/23 13:15	Sat 20/05/23 16:00		
1747				Make Out Permit	0.25 hrs	1739	Thu 18/05/23 13:15	Thu 18/05/23 13:30	Operations	
1748				Accept Permit	0.25 hrs	1747	Thu 18/05/23 13:30	Thu 18/05/23 13:45	O Gobotswang,K Ntatane	
1749				Remove Damper	2 hrs	1748,1747	Thu 18/05/23 13:45	Thu 18/05/23 15:45	L David,J Mothatego	
1750				Service Dampers Cylinders In Workshop	12 hrs	1749	Thu 18/05/23 15:45	Fri 19/05/23 17:45	O Gobotswang,K Ntatane	
1751				Install Cylinder	4 hrs	1750	Fri 19/05/23 17:45	Sat 20/05/23 10:45	K Ntatane,O Gobotswang,L David,J Mothatego	
1752				Carry Out Inspection	4 hrs	1751	Sat 20/05/23 10:45	Sat 20/05/23 15:45	Pilot Madeswi	
1753				Clear Permit	0.25 hrs	1752	Sat 20/05/23 15:45	Sat 20/05/23 16:00	O Gobotswang,K Ntatane	
1754		53A2GB04A01	R363029	BASHUT-0154 - # 1 BOILER ID FAN - Inspect cylinder& stroke check valve to dcs	81.75 hrs		Wed 10/05/23 09:15	Thu 18/05/23 11:00		
1755				Make Out Permit	0.75 hrs	1668SS	Wed 10/05/23 09:15	Wed 10/05/23 10:00	Operations	
1756				Accept Permit	0.5 hrs	1755	Wed 10/05/23 10:00	Wed 10/05/23 10:30	O Gobotswang,K Ntatane	
1757				Inspect Cylinder	23 hrs	1756	Wed 10/05/23 10:30	Fri 12/05/23 14:30	O Gobotswang,K Ntatane	
1758				Stroke Damper To Dcs	25 hrs	1757	Fri 12/05/23 14:30	Mon 15/05/23 08:30	O Gobotswang,K Ntatane	
1759				Carry Out Inspection	25 hrs	1758	Mon 15/05/23 08:30	Wed 17/05/23 14:30	O Gobotswang,K Ntatane	
1760				Clear Permit	7.5 hrs	1759	Wed 17/05/23 14:30	Thu 18/05/23 11:00	O Gobotswang,K Ntatane	
1761		53A2GB04A01	R363032	BASHUT-0155 - # 1 BOILER ID FAN 1 - Check all trips	97.5 hrs		Wed 10/05/23 10:00	Sat 20/05/23 07:30		
1762				Make Out Permit	11 hrs	1755	Wed 10/05/23 10:00	Thu 11/05/23 11:00	Operations	
1763				Accept Permit	0.5 hrs	1762	Thu 11/05/23 11:00	Thu 11/05/23 11:30	O Gobotswang,K Ntatane	
1764				Check All Trips	25 hrs	1758,1763	Mon 15/05/23 08:30	Wed 17/05/23 14:30	K Ntatane,O Gobotswang,Operations	
1765				Carry Out Inspection	23 hrs	1764	Wed 17/05/23 14:30	Fri 19/05/23 17:30	J Baaisi	
1766				Clear Permit	1 hr	1765	Fri 19/05/23 17:30	Sat 20/05/23 07:30	O Gobotswang,K Ntatane	
1767		53A6TV 104A	R363033	BASHUT-0156 - # 1 BOILER SUPERHEATER SECONDARY TEMP VALVE , Rhs - Remove& overh	39.75 hrs		Wed 10/05/23 10:30	Sun 14/05/23 10:15		
1768				Make Out Permit	0.75 hrs	1655	Wed 10/05/23 10:30	Wed 10/05/23 11:15	Operations	

 UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL FINAL EXECUTION DOCUMENT										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1769				Accept Permit	1 hr	1768	Wed 10/05/23 11:15	Wed 10/05/23 13:15	K Ntatane,O Gobotswang	
1770				Disconnect Valve Instruments	2.5 hrs	1769	Wed 10/05/23 13:15	Wed 10/05/23 15:45	K Ntatane,O Gobotswang	
1771				Remove Valve	3.5 hrs	1770	Wed 10/05/23 15:45	Thu 11/05/23 08:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Ma	
1772				Transport To Workshop	1 hr	1771	Thu 11/05/23 08:15	Thu 11/05/23 09:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
1773				Overhaul Valve	24 hrs	1772	Thu 11/05/23 09:15	Sat 13/05/23 14:15	App Weld(cci),K Ntatane,O Gobotswang	
1774				Transport To Plant	1 hr	1773	Sat 13/05/23 14:15	Sat 13/05/23 15:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
1775				Install Valve	3 hrs	1774	Sat 13/05/23 15:15	Sun 14/05/23 07:15	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O	
1776				Reconnect Valve Instruments	4 hrs	1775FF	Sat 13/05/23 14:15	Sun 14/05/23 07:15	App Weld(cci),K Ntatane,O Gobotswang	
1777				Stroke Check Valve To Dcs	1 hr	1776	Sun 14/05/23 07:15	Sun 14/05/23 08:15	K Ntatane,O Gobotswang	
1778				Carry Out Inspection	1 hr	1777	Sun 14/05/23 08:15	Sun 14/05/23 09:15	J Baaisi	
1779				Clear Permit	1 hr	1778	Sun 14/05/23 09:15	Sun 14/05/23 10:15	K Ntatane,O Gobotswang	
1780		53A6TV 104B	R363035	BASHUT-0157 - # 1 BOILER SUPERHEATER SECONDARY TEMP VALVE , Lhs - Remove& overh	50.5 hrs		Wed 10/05/23 11:15	Mon 15/05/23 11:45		
1781				Make Out Permit	0.75 hrs	1768	Wed 10/05/23 11:15	Wed 10/05/23 12:00	Operations	
1782				Accept Permit	0.5 hrs	1781	Wed 10/05/23 13:00	Wed 10/05/23 13:30	K Ntatane,O Gobotswang	
1783				Disconnect Valve Instruments	4 hrs	1782	Wed 10/05/23 13:30	Wed 10/05/23 17:30	K Ntatane,O Gobotswang	
1784				Remove Valve	3 hrs	1783	Wed 10/05/23 17:30	Thu 11/05/23 09:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Ma	
1785				Transport To Workshop	1 hr	1784	Thu 11/05/23 09:30	Thu 11/05/23 10:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
1786				Overhaul Valve	24 hrs	1785	Thu 11/05/23 10:30	Sat 13/05/23 15:30	App Weld(cci),K Ntatane,O Gobotswang	
1787				Transport To Plant	1 hr	1786	Sat 13/05/23 15:30	Sat 13/05/23 16:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
1788				Install Valve	3 hrs	1787	Sat 13/05/23 16:30	Sun 14/05/23 08:30	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O	
1789				Reconnect Valve Instruments	10.25 hrs	1788	Sun 14/05/23 08:30	Mon 15/05/23 08:45	App Weld(cci),K Ntatane,O Gobotswang	
1790				Stroke Check Valve To Dcs	1 hr	1789	Mon 15/05/23 08:45	Mon 15/05/23 09:45	K Ntatane,O Gobotswang	
1791				Carry Out Inspection	1 hr	1790	Mon 15/05/23 09:45	Mon 15/05/23 10:45	J Baaisi	
1792				Clear Permit	1 hr	1791	Mon 15/05/23 10:45	Mon 15/05/23 11:45	K Ntatane,O Gobotswang	
1793				CIVILS	118.5 hrs	9	Fri 05/05/23 03:00	Tue 16/05/23 16:30		
1794			R363042	BASHUT-0158 - FD FAN 1 - Core drilling	97.5 hrs		Fri 05/05/23 03:00	Sun 14/05/23 15:30	Operations	
1795				Accept permit	0.5 hrs	9	Fri 05/05/23 03:00	Fri 05/05/23 07:30	M Seisa	
1796				Disconnect motor and instruments	4 hrs	1795	Fri 05/05/23 07:30	Fri 05/05/23 11:30	K Ntatane,O Chakama,O Galeboe,O Gobotswang	
1797				Loosen casing	7 hrs	1796	Fri 05/05/23 11:30	Sat 06/05/23 08:30	N Masala,O Tshwene	
1798				Remove air duct	9 hrs	1797	Sat 06/05/23 08:30	Sun 07/05/23 07:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1799				Rig out top casing	9 hrs	1798	Sun 07/05/23 07:30	Sun 07/05/23 17:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1800				Rig out fan& motor	7 hrs	1799	Sun 07/05/23 17:30	Mon 08/05/23 14:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1801				Rig out bottom casing	4 hrs	1800	Mon 08/05/23 14:30	Tue 09/05/23 07:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1802				Start core drilling	6 hrs	1801	Tue 09/05/23 07:30	Tue 09/05/23 14:30	M Seisa	
1803				Install/position holding down bolts	2.5 hrs	1802	Tue 09/05/23 14:30	Tue 09/05/23 17:00	M Seisa	
1804				Grouting	2.5 hrs	1803	Tue 09/05/23 17:00	Wed 10/05/23 08:30	M Seisa	
1805				Rig in bottom casing	4 hrs	1804	Wed 10/05/23 08:30	Wed 10/05/23 13:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1806				Check levels	4 hrs	1805	Wed 10/05/23 13:30	Wed 10/05/23 17:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1807				Rig in rotor	4 hrs	1806	Wed 10/05/23 17:30	Thu 11/05/23 10:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1808				Rig in top casing	5 hrs	1807	Thu 11/05/23 10:30	Thu 11/05/23 16:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1809				Replace air duct	5 hrs	1808	Thu 11/05/23 16:30	Fri 12/05/23 10:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1810				Box up the fan	7 hrs	1809	Fri 12/05/23 10:30	Sat 13/05/23 07:30	N Masala,O Tshwene	
1811				Rig in motor	4 hrs	1810	Sat 13/05/23 07:30	Sat 13/05/23 11:30	J Mosenya,N Masala,O Tshwene,T Mmatli	
1812				Connect electricals and instruments	4 hrs	1811	Sat 13/05/23 11:30	Sat 13/05/23 16:30	K Ntatane,O Chakama,O Galeboe,O Gobotswang	
1813				Carry out alignment	7 hrs	1812	Sat 13/05/23 16:30	Sun 14/05/23 13:30	Reliability	
1814				Housekeeping	1 hr	1813	Sun 14/05/23 13:30	Sun 14/05/23 14:30	M Seisa	
1815				Clear permit	1 hr	1814	Sun 14/05/23 14:30	Sun 14/05/23 15:30	M Seisa	
1816			R363043	FD FAN 2 - Core drilling	118 hrs		Fri 05/05/23 07:30	Tue 16/05/23 16:30		
1817				Accept permit	0.5 hrs	9,1795	Fri 05/05/23 07:30	Fri 05/05/23 08:00	M Seisa	
1818				Disconnect motor and instruments	4 hrs	1817	Fri 05/05/23 08:00	Fri 05/05/23 12:00	K Ntatane,O Chakama,O Galeboe,O Gobotswang	
1819				Loosen casing	8 hrs	1818	Fri 05/05/23 13:00	Sat 06/05/23 10:00	N Masala,O Tshwene	
1820				Remove air duct	13 hrs	1819	Sat 06/05/23 10:00	Sun 07/05/23 14:00	J Mosenya,N Masala,O Tshwene,T Mmatli	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										FINAL EXECUTION DOCUMENT
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1821				Rig out top casing	13 hrs	1820	Sun 07/05/23 14:00	Mon 08/05/23 17:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1822				Rig out fan& motor	8 hrs	1821	Mon 08/05/23 17:00	Tue 09/05/23 15:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1823				Rig out bottom casing	4 hrs	1822	Tue 09/05/23 15:00	Wed 10/05/23 08:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1824				Start core drilling	7 hrs	1823	Wed 10/05/23 08:00	Wed 10/05/23 16:00	M Seisa	
1825				Install/position holding down bolts	4 hrs	1824	Wed 10/05/23 16:00	Thu 11/05/23 09:00	M Seisa	
1826				Grouting	4 hrs	1825	Thu 11/05/23 09:00	Thu 11/05/23 14:00	M Seisa	
1827				Rig in bottom casing	4 hrs	1826	Thu 11/05/23 14:00	Thu 11/05/23 18:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1828				Check levels	4 hrs	1827	Fri 12/05/23 07:00	Fri 12/05/23 11:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1829				Rig in rotor	4 hrs	1828	Fri 12/05/23 11:00	Fri 12/05/23 16:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1830				Rig in top casing	6 hrs	1829	Fri 12/05/23 16:00	Sat 13/05/23 11:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1831				Replace air duct	6 hrs	1830	Sat 13/05/23 11:00	Sat 13/05/23 18:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1832				Box up the fan	8 hrs	1831	Sat 13/05/23 18:00	Sun 14/05/23 16:00	N Masala,O Tshwene	
1833				Rig in motor	4 hrs	1832	Sun 14/05/23 16:00	Mon 15/05/23 09:00	J Mosenya,N Masala,O Tshwene,T Mmatli	
1834				Connect electricals and instruments	5 hrs	1833	Mon 15/05/23 09:00	Mon 15/05/23 15:00	K Ntatane,O Chakama,O Galeboe,O Gobotswang	
1835				Carry out alignment	8 hrs	1834	Mon 15/05/23 15:00	Tue 16/05/23 12:00	Reliability	
1836				Housekeeping	2.5 hrs	1835	Tue 16/05/23 12:00	Tue 16/05/23 15:30	M Seisa	
1837				Clear permit	1 hr	1836	Tue 16/05/23 15:30	Tue 16/05/23 16:30	M Seisa	
1838		AREA 53A		# 2 BOILER	177.5 hrs		Fri 05/05/23 09:00	Mon 22/05/23 17:30		
1839			R359554	BASHUT-0160 - #2 BOILER - LAGGING AND CLADDING	140 hrs		Sun 07/05/23 07:00	Sat 20/05/23 18:00		
1840			R359554	Repair lagging and cladding left hand side wall	140 hrs	10,12,89	Sun 07/05/23 07:00	Sat 20/05/23 18:00		
1841			R359554	Repair lagging and cladding right hand side wall	140 hrs	1840SS	Sun 07/05/23 07:00	Sat 20/05/23 18:00		
1842			R359554	Repair lagging and cladding front wall	140 hrs	1841SS	Sun 07/05/23 07:00	Sat 20/05/23 18:00		
1843			R359554	Repair lagging and cladding frear wall	140 hrs	1842SS	Sun 07/05/23 07:00	Sat 20/05/23 18:00		
1844				OPERATIONS	158 hrs		Fri 05/05/23 09:00	Sat 20/05/23 18:00		
1845		53A2BB01A02		BASHUT-0161 - SHUTDOWN # 2 BOILER	158 hrs		Fri 05/05/23 09:00	Sat 20/05/23 18:00		
1846				Stop Coal Feed	11.25 hrs	8	Fri 05/05/23 09:00	Sat 06/05/23 10:15	Operations	
1847				Close Feed Station Valve	18 hrs	1846	Sat 06/05/23 10:15	Mon 08/05/23 08:15	Operations	
1848				Force Cool& Depressurise	13 hrs	1847	Mon 08/05/23 08:15	Tue 09/05/23 11:15	Operations	
1849				Drain Sand	7 hrs	1848	Tue 09/05/23 11:15	Wed 10/05/23 08:15	Operations	
1850				Make out vessel entry permit	0.75 hrs	1849SS	Tue 09/05/23 11:15	Tue 09/05/23 12:00	Operations	
1851				Accept vessel entry permit	1 hr	1850	Tue 09/05/23 12:00	Tue 09/05/23 14:00	Foreman	
1852				Open boiler, Blowdown, Steam drum, Economiser and Plenums doors	4 hrs	1851SS	Tue 09/05/23 12:00	Tue 09/05/23 17:00	FT-Util3	
1853				Wash down sparge pipes+superheaters	38 hrs	1852	Tue 09/05/23 17:00	Sat 13/05/23 15:00	Operations	
1854				High pressure wash Economizer	50 hrs	1853SS	Tue 09/05/23 17:00	Sun 14/05/23 17:00	Operations	
1855				Remove sand from underneath the Boiler	16 hrs	1854	Sun 14/05/23 17:00	Tue 16/05/23 12:00	Operations	
1856				Erect scaffold around Boiler as required	24 hrs	1848SS,8	Mon 08/05/23 08:15	Wed 10/05/23 13:15	RSC Scaffold	
1857				Remove scaffold around Boilers	12 hrs	1840FF,1	Fri 19/05/23 16:00	Sat 20/05/23 18:00	RSC Scaffold	
1858				MECHANICAL	159.5 hrs	12	Sun 07/05/23 05:00	Mon 22/05/23 17:30		
1859		53A UTIL STRUCT	R363046	BASHUT-0162 - SPARGE PIPES - Change sparge pipes	116.25 hrs		Sun 07/05/23 05:00	Thu 18/05/23 14:15		
1860				Make out permit	0.25 hrs	12	Sun 07/05/23 05:00	Sun 07/05/23 07:15	Operations	
1861				Accept permit	0.25 hrs	1860	Sun 07/05/23 07:15	Sun 07/05/23 07:30	Operations,FT-Util8	
1862				Carry out inspection & identify sparge to be remove	2 hrs	1861	Sun 07/05/23 07:30	Sun 07/05/23 09:30	Operations	
1863				Remove sparge pipes inside the boiler	36 hrs	1862	Sun 07/05/23 09:30	Wed 10/05/23 16:30	Foreman	
1864				Repair the sparge pipes	50 hrs	1863FF+	Sun 07/05/23 07:00	Thu 11/05/23 18:00	FT-Util8	
1865				Inspect clamps & repack seals	30 hrs	1864	Fri 12/05/23 07:00	Sun 14/05/23 18:00	BM-Util1	
1866				Install the sparge pipes	36 hrs	1865	Mon 15/05/23 07:00	Thu 18/05/23 14:00	FT-Util8	
1867				Clear permit	0.25 hrs	1866	Thu 18/05/23 14:00	Thu 18/05/23 14:15	FT-Util8	
1868		53A2RM03A01	R363049	BASHUT-0163 - # 2 BOILER # 1 COAL FLINGER - Recondition housing	101.25 hrs		Sun 07/05/23 07:15	Wed 17/05/23 08:30		
1869				Make out permit	0.75 hrs	12,1860	Sun 07/05/23 07:15	Sun 07/05/23 08:00	FT-Util3	
1870				Accept permit	0.5 hrs	1869	Sun 07/05/23 08:00	Sun 07/05/23 08:30	FT-Util3	
1871				Remove housing	30 hrs	1870	Sun 07/05/23 08:30	Wed 10/05/23 08:30	FT-Util3	
1872				Inspect holding bolts& replace if necessary	13 hrs	1871	Wed 10/05/23 08:30	Thu 11/05/23 11:30	FT-Util3	
Thu 27/04/23 18:50										Page 36
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Botswana Ash (Pty) Ltd

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ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1873				Replace blades	13 hrs	1872	Thu 11/05/23 11:30	Fri 12/05/23 15:30	Operations	
1874				Recondition housing	13 hrs	1873	Fri 12/05/23 15:30	Sun 14/05/23 07:30	FT-Util11	
1875				Install housing	30 hrs	1874	Sun 14/05/23 07:30	Wed 17/05/23 07:30	FT-Util3	
1876				Clear permit	1 hr	1875	Wed 17/05/23 07:30	Wed 17/05/23 08:30	FT-Util3	
1877		53A2RM05A01	R363051	BASHUT-0164 - # 2 BOILER # 2 COAL FLINGER - Recondition housing	84.25 hrs		Sun 07/05/23 08:30	Mon 15/05/23 13:45		
1878				Make out permit	0.75 hrs	1870	Sun 07/05/23 08:30	Sun 07/05/23 09:15	FT-Util15	
1879				Accept permit	0.5 hrs	1878	Sun 07/05/23 09:15	Sun 07/05/23 09:45	FT-Util15	
1880				Remove housing	13 hrs	1879	Sun 07/05/23 09:45	Mon 08/05/23 13:45	FT-Util15	
1881				Inspect holding bolts& replace if necessary	13 hrs	1880	Mon 08/05/23 13:45	Tue 09/05/23 16:45	FT-Util15	
1882				Replace blades	13 hrs	1881	Tue 09/05/23 16:45	Thu 11/05/23 08:45	Operations	
1883				Recondition housing	13 hrs	1882	Thu 11/05/23 08:45	Fri 12/05/23 11:45	FT-Util15	
1884				Install housing	30 hrs	1883	Fri 12/05/23 11:45	Mon 15/05/23 11:45	FT-Util15	
1885				Clear permit	1 hr	1884	Mon 15/05/23 11:45	Mon 15/05/23 13:45	FT-Util15	
1886		53A2RM05A01	R363053	BASHUT-0165 - # 2 BOILER # 3 COAL FLINGER - Recondition housing	101.5 hrs		Mon 08/05/23 13:45	Thu 18/05/23 15:15		
1887				Make out permit	0.75 hrs	1878,1885	Mon 08/05/23 13:45	Mon 08/05/23 14:30	FT-Util16	
1888				Accept permit	0.5 hrs	1887	Mon 08/05/23 14:30	Mon 08/05/23 15:00	FT-Util16	
1889				Remove housing	13 hrs	1888	Mon 08/05/23 15:00	Tue 09/05/23 18:00	FT-Util16	
1890				Inspect holding bolts& replace if necessary	30 hrs	1889	Wed 10/05/23 07:00	Fri 12/05/23 18:00	FT-Util16	
1891				Replace blades	13 hrs	1890	Fri 12/05/23 18:00	Sun 14/05/23 10:00	Operations	
1892				Recondition housing	13.25 hrs	1891	Sun 14/05/23 10:00	Mon 15/05/23 14:15	FT-Util16	
1893				Install housing	30 hrs	1892	Mon 15/05/23 14:15	Thu 18/05/23 14:15	FT-Util16	
1894				Clear permit	1 hr	1893	Thu 18/05/23 14:15	Thu 18/05/23 15:15	FT-Util16	
1895		53A2RM05A01	R363055	BASHUT-0166 - # 2 BOILER # 4 COAL FLINGER - Recondition housing	84.75 hrs		Wed 10/05/23 07:00	Thu 18/05/23 11:45		
1896				Make out permit	1.25 hrs	1887,1889	Wed 10/05/23 07:00	Wed 10/05/23 08:15	FT-Util1	
1897				Accept permit	0.5 hrs	1896	Wed 10/05/23 08:15	Wed 10/05/23 08:45	FT-Util1	
1898				Remove housing	13 hrs	1897	Wed 10/05/23 08:45	Thu 11/05/23 11:45	FT-Util1	
1899				Inspect holding bolts& replace if necessary	13 hrs	1898	Thu 11/05/23 11:45	Fri 12/05/23 15:45	FT-Util1	
1900				Replace blades	13 hrs	1899	Fri 12/05/23 15:45	Sun 14/05/23 07:45	Operations	
1901				Recondition housing	13 hrs	1900	Sun 14/05/23 07:45	Mon 15/05/23 10:45	FT-Util1	
1902				Install housing	30 hrs	1901	Mon 15/05/23 10:45	Thu 18/05/23 10:45	FT-Util1	
1903				Clear permit	1 hr	1902	Thu 18/05/23 10:45	Thu 18/05/23 11:45	FT-Util1	
1904		53A2FB01A01	R363058	BASHUT-0167 - # 2 BOILER - STEAM DRUM - Carry out inspection	95 hrs		Sun 07/05/23 05:00	Tue 16/05/23 12:00		
1905				Make out permit	0.75 hrs	10	Sun 07/05/23 05:00	Sun 07/05/23 07:45	FT-Util5	
1906				Accept permit	0.5 hrs	1905	Sun 07/05/23 07:45	Sun 07/05/23 08:15	FT-Util5	
1907				Open drum doors	1 hr	1906	Sun 07/05/23 08:15	Sun 07/05/23 09:15	FT-Util5	
1908				Make out vessel entry permit	0.75 hrs	1907	Sun 07/05/23 09:15	Sun 07/05/23 10:00	Operations	
1909				Accept vessel entry permit	1 hr	1908	Sun 07/05/23 10:00	Sun 07/05/23 11:00	FT-Util5	
1910				Allow drum to cool	34 hrs	1909	Sun 07/05/23 11:00	Wed 10/05/23 16:00	Operations	
1911				Remove relief valves	1 hr	1910	Wed 10/05/23 16:00	Wed 10/05/23 17:00	30Tcrane,FT-Util5,T Mmatli,J Mosenya	
1912				Transport to workshop	1 hr	1911	Wed 10/05/23 17:00	Wed 10/05/23 18:00	30Tcrane,FT-Util5,T Mmatli,J Mosenya	
1913				Overhaul RVs	16 hrs	1912	Thu 11/05/23 07:00	Fri 12/05/23 14:00	Direct Engineering	
1914				Remove and clean phosphate pipe	8 hrs	1913	Fri 12/05/23 14:00	Sat 13/05/23 11:00	FT-Util5	
1915				Refit pipes	4 hrs	1914	Sat 13/05/23 11:00	Sat 13/05/23 16:00	FT-Util5	
1916				Seal the door properly	4 hrs	1915	Sat 13/05/23 16:00	Sun 14/05/23 09:00	FT-Util5	
1917				Transport RVs to plant	1 hr	1916	Sun 14/05/23 09:00	Sun 14/05/23 10:00	30Tcrane,FT-Util5,T Mmatli,J Mosenya	
1918				Install RVs	13 hrs	1917	Sun 14/05/23 10:00	Mon 15/05/23 14:00	FT-Util5	
1919				Box doors	8 hrs	1918	Mon 15/05/23 14:00	Tue 16/05/23 11:00	FT-Util5	
1920				Clear vessel entry permit	1 hr	1919	Tue 16/05/23 11:00	Tue 16/05/23 12:00	FT-Util5	
1921		53A2FB01A01	R363059	BASHUT-0168 - # 2 BOILER - STEAM DRUM - Replace Isolation valves	38.25 hrs		Sun 07/05/23 09:15	Thu 11/05/23 07:30		
1922				Make out permit	0.75 hrs	1905,1919	Sun 07/05/23 09:15	Sun 07/05/23 10:00	FT-Util2	
1923				Accept permit	0.5 hrs	1922	Sun 07/05/23 10:00	Sun 07/05/23 10:30	FT-Util2	
1924				Cut out isolation valve	6 hrs	1923	Sun 07/05/23 10:30	Sun 07/05/23 17:30	FT-Util2	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										FINAL EXECUTION DOCUMENT
										
ID		Asset Code	Works order	Task Name	Duration	Predecessor	Start	Finish	Resource Names	
1925				Weld new valves	24 hrs	1924	Sun 07/05/23 17:30	Wed 10/05/23 10:30	FT-Util2	
1926				Carry out NDT	15 hrs	1925FF+	Tue 09/05/23 11:30	Wed 10/05/23 17:30	FT-Util2	
1927				Clear Permit	1 hr	1926	Wed 10/05/23 17:30	Thu 11/05/23 07:30	FT-Util2	
1928		53A2FB01A01	R363061	BASHUT-0169 - # 2 BOILER - STEAM DRUM - Overhaul pressure relief valves	52.25 hrs		Sun 07/05/23 10:00	Fri 12/05/23 13:15		
1929				Make out permit	0.75 hrs	1922	Sun 07/05/23 10:00	Sun 07/05/23 10:45	FT-Util2	
1930				Accept permit	0.5 hrs	1929	Sun 07/05/23 10:45	Sun 07/05/23 11:15	FT-Util2	
1931				Remove valves	8 hrs	1930	Sun 07/05/23 11:15	Mon 08/05/23 09:15	FT-Util2	
1932				Overhaul valves (Lap / seats)	24 hrs	1931	Mon 08/05/23 09:15	Wed 10/05/23 14:15	FT-Util2	
1933				Pressure test	4 hrs	1932	Wed 10/05/23 14:15	Thu 11/05/23 07:15	FT-Util2	
1934				Re-install valves	14 hrs	1933	Thu 11/05/23 07:15	Fri 12/05/23 11:15	FT-Util2	
1935				Clear Permit	1 hr	1934	Fri 12/05/23 11:15	Fri 12/05/23 13:15	FT-Util2	
1936		53A2GB01A02	R363064	BASHUT-0170 - # 2 BOILER # 1 FORCED DRAUGHT (fd fan) - Change oil and clean air vents	34.25 hrs		Sun 07/05/23 05:00	Wed 10/05/23 11:15		
1937				Make out permit	0.75 hrs	22	Sun 07/05/23 05:00	Sun 07/05/23 07:45	Operations	
1938				Accept permit	0.5 hrs	1937	Sun 07/05/23 07:45	Sun 07/05/23 08:15	EL-Util4	
1939				Loosen& remove covers	1 hr	1938	Sun 07/05/23 08:15	Sun 07/05/23 09:15	FT-Util11,T Mmatli,J Mosenya	
1940				Clean flush and drain oil on both motor& fan	1 hr	1939	Sun 07/05/23 09:15	Sun 07/05/23 10:15	FT-Util11	
1941				Clean air vents	26 hrs	1940	Sun 07/05/23 10:15	Tue 09/05/23 17:15	EL-Util4	
1942				Replace& box up covers	3 hrs	1941	Tue 09/05/23 17:15	Wed 10/05/23 09:15	7.5Tcrane,FT-Util11,T Mmatli,J Mosenya	
1943				Carry out inspection	1 hr	1942	Wed 10/05/23 09:15	Wed 10/05/23 10:15	FT-Util11,BM-Util1	
1944				Clear permit	1 hr	1943	Wed 10/05/23 10:15	Wed 10/05/23 11:15	FT-Util11	
1945		53A2GB01A02	R363066	BASHUT-0171 - # 2 BOILER # 2 FORCED DRAUGHT (fd fan) - Change oil and clean air vents	17.75 hrs		Wed 10/05/23 10:15	Fri 12/05/23 08:00		
1946				Make out permit	0.75 hrs	1943	Wed 10/05/23 10:15	Wed 10/05/23 11:00	Operations	
1947				Accept permit	0.5 hrs	1946	Wed 10/05/23 11:00	Wed 10/05/23 11:30	EL-Util4	
1948				Loosen& remove covers	2.5 hrs	1947	Wed 10/05/23 11:30	Wed 10/05/23 15:00	FT-Util11,T Mmatli,J Mosenya	
1949				Clean flush and drain oil on both motor& fan	4 hrs	1948	Wed 10/05/23 15:00	Thu 11/05/23 08:00	FT-Util11	
1950				Clean air vents	5 hrs	1949	Thu 11/05/23 08:00	Thu 11/05/23 14:00	EL-Util4	
1951				Replace& box up covers	3 hrs	1950	Thu 11/05/23 14:00	Thu 11/05/23 17:00	7.5Tcrane,FT-Util11,T Mmatli,J Mosenya	
1952				Carry out inspection	1 hr	1951	Thu 11/05/23 17:00	Thu 11/05/23 18:00	BM-Util1,FT-Util11	
1953				Clear permit	1 hr	1952	Thu 11/05/23 18:00	Fri 12/05/23 08:00	FT-Util11	
1954		53A2GB01A02	R363067	BASHUT-0172 - # 2 BOILER # 1 FORCED DRAUGHT FAN (fd fan) - Clean Air ducts	30.75 hrs		Sun 07/05/23 07:45	Wed 10/05/23 08:30		
1955				Make out permit	0.75 hrs	1937	Sun 07/05/23 07:45	Sun 07/05/23 08:30	Operations	
1956				Accept permit	0.5 hrs	1955	Sun 07/05/23 08:30	Sun 07/05/23 09:00	FT-Util2	
1957				Open inspection covers	4 hrs	1956	Sun 07/05/23 09:00	Sun 07/05/23 14:00	FT-Util2	
1958				Clean all air ducts	4 hrs	1957	Sun 07/05/23 14:00	Sun 07/05/23 18:00	Operations	
1959				Repair holes on the air ducts	14 hrs	1958	Mon 08/05/23 07:00	Tue 09/05/23 11:00	BM-Util4	
1960				Start fans to blow duct	4 hrs	1959	Tue 09/05/23 11:00	Tue 09/05/23 16:00	Operations	
1961				Box up covers	2.5 hrs	1960	Tue 09/05/23 16:00	Wed 10/05/23 07:30	FT-Util2	
1962				Clear permit	1 hr	1961	Wed 10/05/23 07:30	Wed 10/05/23 08:30	FT-Util2	
1963		53A2GB01A02	R363069	BASHUT-0173 - # 2 BOILER # 2 FORCED DRAUGHT FAN(fd fan) - Clean Air ducts	45.25 hrs		Sun 07/05/23 09:00	Thu 11/05/23 15:15		
1964				Make out permit	0.75 hrs	1956	Sun 07/05/23 09:00	Sun 07/05/23 09:45	Operations	
1965				Accept permit	0.5 hrs	1964	Sun 07/05/23 09:45	Sun 07/05/23 10:15	FT-Util14	
1966				Open all inspection doors	24 hrs	1965	Sun 07/05/23 10:15	Tue 09/05/23 15:15	FT-Util14	
1967				Repair holes on the air duct	8 hrs	1966	Tue 09/05/23 15:15	Wed 10/05/23 13:15	BM-Util5	
1968				Clean duct with water	6 hrs	1967	Wed 10/05/23 13:15	Thu 11/05/23 08:15	Operations	
1969				Blow out ducting before start	4 hrs	1968	Thu 11/05/23 08:15	Thu 11/05/23 13:15	Operations	
1970				Box up doors	1 hr	1969	Thu 11/05/23 13:15	Thu 11/05/23 14:15	FT-Util14	
1971				Clear permit	1 hr	1970	Thu 11/05/23 14:15	Thu 11/05/23 15:15	FT-Util14	
1972		53A2GB01A02	R363071	BASHUT-0174 - # 2 BOILER # 1 FORCED DRAUGHT FAN (fd fan) - Overhaul dumper mechani	61.75 hrs		Sun 07/05/23 08:30	Sat 13/05/23 10:15		
1973				Make out permit	0.75 hrs	1955	Sun 07/05/23 08:30	Sun 07/05/23 09:15	Operations	
1974				Accept permit	0.5 hrs	1973	Sun 07/05/23 09:15	Sun 07/05/23 09:45	FT-Util1	
1975				Delink turnbuckles from dumper	1 hr	1974	Sun 07/05/23 09:45	Sun 07/05/23 10:45	FT-Util1	
1976				Remove bolts from pillow blocks	23 hrs	1975	Sun 07/05/23 10:45	Tue 09/05/23 14:45	FT-Util1	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
1977				Take the assembly to workshop	1 hr	1976	Tue 09/05/23 14:45	Tue 09/05/23 15:45	FT-Util1	
1978				Separate turnbuckles from transfer bar	2.5 hrs	1977	Tue 09/05/23 15:45	Wed 10/05/23 07:15	FT-Util1	
1979				Replace pillow blocks with new ones	4 hrs	1978	Wed 10/05/23 07:15	Wed 10/05/23 11:15	FT-Util1	
1980				Exercise turnbuckles & lock nuts	24 hrs	1979	Wed 10/05/23 11:15	Fri 12/05/23 16:15	FT-Util1	
1981				Connect turnbuckles to transfer bar	1 hr	1980	Fri 12/05/23 16:15	Fri 12/05/23 17:15	FT-Util1	
1982				transport assembly& link with dumper	1 hr	1981	Fri 12/05/23 17:15	Sat 13/05/23 07:15	FT-Util1	
1983				Install assembly& link with dumper	1 hr	1982	Sat 13/05/23 07:15	Sat 13/05/23 08:15	FT-Util1	
1984				Apply penetrating oil to dumper links	1 hr	1983	Sat 13/05/23 08:15	Sat 13/05/23 09:15	FT-Util1	
1985				Operate cylinder to exercise dumper mechanism	1 hr	1984	Sat 13/05/23 09:15	Sat 13/05/23 10:15	FT-Util1	
1986		53A2GB01A02	R363072	BASHUT-0175 - # 2 BOILER # 2 FORCED DRAUGHT FAN (fd fan) - Overhaul dumper mechani	16.75 hrs		Thu 11/05/23 13:15	Sat 13/05/23 09:00		
1987				Make out permit	0.75 hrs	1969	Thu 11/05/23 13:15	Thu 11/05/23 14:00	Operations	
1988				Accept permit	0.5 hrs	1987	Thu 11/05/23 14:00	Thu 11/05/23 14:30	FT-Util4	
1989				Delink turnbuckles from dumper	1 hr	1988	Thu 11/05/23 14:30	Thu 11/05/23 15:30	FT-Util4	
1990				Remove bolts from pillow blocks	1 hr	1989	Thu 11/05/23 15:30	Thu 11/05/23 16:30	FT-Util4	
1991				Take the assembly to workshop	1 hr	1990	Thu 11/05/23 16:30	Thu 11/05/23 17:30	FT-Util4	
1992				Separate turnbuckles from transfer bar	1 hr	1991	Thu 11/05/23 17:30	Fri 12/05/23 07:30	FT-Util4	
1993				Replace pillow blocks with new ones	4 hrs	1992	Fri 12/05/23 07:30	Fri 12/05/23 11:30	FT-Util4	
1994				Exercise turnbuckles& lock nuts	2.5 hrs	1993	Fri 12/05/23 11:30	Fri 12/05/23 15:00	FT-Util4	
1995				Connect turnbuckles to transfer bar	1 hr	1994	Fri 12/05/23 15:00	Fri 12/05/23 16:00	FT-Util4	
1996				transport assembly& link with dumper	1 hr	1995	Fri 12/05/23 16:00	Fri 12/05/23 17:00	FT-Util4	
1997				Install assembly& link with dumper	1 hr	1996	Fri 12/05/23 17:00	Fri 12/05/23 18:00	FT-Util4	
1998				Apply penetrating oil to dumper links	1 hr	1997	Fri 12/05/23 18:00	Sat 13/05/23 08:00	FT-Util4	
1999				Operate cylinder to exercise dumper mechanism	1 hr	1998	Sat 13/05/23 08:00	Sat 13/05/23 09:00	FT-Util4	
2000		53A2GB01A01	R363074	BASHUT-0176 - # 2 BOILER # INDUCED FAN (ID fan) - Inspection	29.25 hrs		Sun 07/05/23 09:15	Wed 10/05/23 08:30		
2001				Make out permit	0.75 hrs	1973	Sun 07/05/23 09:15	Sun 07/05/23 10:00	Operations	
2002				Accept permit	0.5 hrs	2001	Sun 07/05/23 10:00	Sun 07/05/23 10:30	FT-Util14	
2003				Open inspection & carry out inspection	5 hrs	2002	Sun 07/05/23 10:30	Sun 07/05/23 16:30	FT-Util14	
2004				Repair / replace if necessary	16 hrs	2003	Sun 07/05/23 16:30	Tue 09/05/23 11:30	Operations	
2005				Box up covers	6 hrs	2004	Tue 09/05/23 11:30	Wed 10/05/23 07:30	FT-Util14	
2006				Clear permit	1 hr	2005	Wed 10/05/23 07:30	Wed 10/05/23 08:30	FT-Util14	
2007		53A2FK01A02	R363075	BASHUT-0177 - # 2 BOILER BAGHOUSE - Carry out inspection	154 hrs		Sun 07/05/23 05:00	Mon 22/05/23 11:00		
2008				Make out permit	0.25 hrs	1042	Sun 07/05/23 05:00	Sun 07/05/23 07:15	Operations	
2009				Accept permit	0.25 hrs	2008	Sun 07/05/23 07:15	Sun 07/05/23 07:30	Operations	
2010				Open compartment and check air distribution pipes	30 hrs	2009	Sun 07/05/23 07:30	Wed 10/05/23 07:30	FT-Util12	
2011				Inspect all compartment bags	13 hrs	2010	Wed 10/05/23 07:30	Thu 11/05/23 10:30	Operations	
2012				Inspect and identify defective air supply nozzles	5 hrs	2011	Thu 11/05/23 10:30	Thu 11/05/23 16:30	FT-Util12	
2013				Rig down and transport to workshop	3 hrs	2012	Thu 11/05/23 16:30	Fri 12/05/23 08:30	T Mmatli,J Mosenya	
2014				Carry out repairs on defective air supply nozzles	30 hrs	2013	Fri 12/05/23 08:30	Mon 15/05/23 08:30	FT-Util12,BM-Util6	
2015				Transport to plant and rig up	1 hr	2014	Mon 15/05/23 08:30	Mon 15/05/23 09:30	FT-Util12,T Mmatli,J Mosenya	
2016				Install air supply nozzles	50 hrs	2015	Mon 15/05/23 09:30	Sat 20/05/23 09:30	FT-Util12	
2017				Repair all hinges in the doors	21.25 hrs	2016	Sat 20/05/23 09:30	Mon 22/05/23 10:45	FT-Util12	
2018				Clear permit	0.25 hrs	2017	Mon 22/05/23 10:45	Mon 22/05/23 11:00	Operations	
2019		53A2FK01A01	R363076	BASHUT-0178 - # 2 BOILER BAGHOUSE - Repair skin casings	153 hrs		Sun 07/05/23 05:00	Mon 22/05/23 10:00		
2020				Make out permit	0.25 hrs	2008	Sun 07/05/23 07:15	Sun 07/05/23 07:30	Operations	
2021				Accept permit	0.25 hrs	2020	Sun 07/05/23 07:30	Sun 07/05/23 07:45	Operations	
2022				Erect scaffolding	0 hrs	13	Sun 07/05/23 05:00	Sun 07/05/23 05:00	FT-Util5	
2023				Mark and cut damaged / coroded areas	30 hrs	2022,202	Sun 07/05/23 07:45	Wed 10/05/23 07:45	Operations	
2024				Manufacture new skincasings	120 hrs	2023	Wed 10/05/23 07:45	Mon 22/05/23 07:45	FT-Util5	
2025				Install new skin casings (Seal weld 100%)	100 hrs	2024SS+	Fri 12/05/23 09:45	Mon 22/05/23 09:45	T Mmatli,J Mosenya	
2026				Remove scaffolding	0 hrs	2025	Mon 22/05/23 09:45	Mon 22/05/23 09:45	FT-Util5	
2027				Clear permit	0.25 hrs	2026	Mon 22/05/23 09:45	Mon 22/05/23 10:00	Operations	
2028		53A2FK01A01	R363077	BASHUT-0179 - # 2 BOILER BAGHOUSE - Replace baghouse screw conveyors	71.25 hrs		Sun 07/05/23 07:30	Sun 14/05/23 08:45		

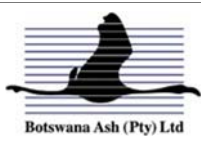
UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2029				Make out permit	0.75 hrs	2009	Sun 07/05/23 07:30	Sun 07/05/23 08:15	Operations	
2030				Accept permit	0.5 hrs	2029	Sun 07/05/23 08:15	Sun 07/05/23 08:45	Operations	
2031				Remove geared unit	2.5 hrs	2030	Sun 07/05/23 08:45	Sun 07/05/23 11:15	FT-Util5	
2032				Remove coupling	2.5 hrs	2031	Sun 07/05/23 11:15	Sun 07/05/23 14:45	Operations	
2033				Remove bearings and rig out screw conveyors	28 hrs	2032	Sun 07/05/23 14:45	Wed 10/05/23 11:45	FT-Util5	
2034				Rig in new screw conveyors	26 hrs	2033	Wed 10/05/23 11:45	Sat 13/05/23 07:45	T Mmatli,J Mosenya	
2035				Install bearing and re-couple	4 hrs	2034	Sat 13/05/23 07:45	Sat 13/05/23 11:45	FT-Util5	
2036				Install geared unit	6 hrs	2034,2035	Sat 13/05/23 11:45	Sun 14/05/23 07:45	FT-Util5	
2037				Clear permit	1 hr	2036	Sun 14/05/23 07:45	Sun 14/05/23 08:45	Operations	
2038		53A2FK01A01	R363078	BASHUT-0180 - # 2 BOILER BAGHOUSE ASH CONVEYING LINES - Replace lines	120.25 hrs		Sun 07/05/23 08:15	Fri 19/05/23 08:30		
2039				Make out permit	0.75 hrs	2029	Sun 07/05/23 08:15	Sun 07/05/23 09:00	Operations	
2040				Accept permit	0.5 hrs	2039	Sun 07/05/23 09:00	Sun 07/05/23 09:30	Operations	
2041				Clean and clear lines	36 hrs	2040	Sun 07/05/23 09:30	Wed 10/05/23 16:30	FT-Util5	
2042				Remove lines	16 hrs	2041	Wed 10/05/23 16:30	Fri 12/05/23 11:30	Operations	
2043				Pre-manufacture new lines	50 hrs	2042	Fri 12/05/23 11:30	Wed 17/05/23 11:30	FT-Util5	
2044				Install new lines	16 hrs	2043	Wed 17/05/23 11:30	Fri 19/05/23 07:30	T Mmatli,J Mosenya	
2045				Clear permit	1 hr	2044	Fri 19/05/23 07:30	Fri 19/05/23 08:30	Operations	
2046		53A2BB01A02	R363080	BASHUT-0181 - # 2 BOILER - Inspect & free hatches	19.5 hrs		Sat 20/05/23 18:00	Mon 22/05/23 17:30		
2047				Make out permit	0.75 hrs	1856,1857	Sat 20/05/23 18:00	Sun 21/05/23 07:45	Operations	
2048				Accept permit	0.5 hrs	2047	Sun 21/05/23 07:45	Sun 21/05/23 08:15	FT-Util7	
2049				Inspect hatches	12.25 hrs	2048	Sun 21/05/23 08:15	Mon 22/05/23 10:30	FT-Util7	
2050				Replace/clean glasses if necessary	5 hrs	2049	Mon 22/05/23 10:30	Mon 22/05/23 16:30	FT-Util7	
2051				Clear permit	1 hr	2050	Mon 22/05/23 16:30	Mon 22/05/23 17:30	FT-Util7	
2052		53A2GB02A02	R363082	BADHUT-0182 - # 2 BOILER MAIN STEAM STOP VALVE - Replace Valve (Lap valve seats)	26.75 hrs		Tue 09/05/23 11:15	Fri 12/05/23 08:00		
2053				Make out permit	0.75 hrs	1848	Tue 09/05/23 11:15	Tue 09/05/23 12:00	Operations	
2054				Accept permit	0.5 hrs	2053	Tue 09/05/23 12:00	Tue 09/05/23 13:30	FT-Util1	
2055				Open valve	4 hrs	2054	Tue 09/05/23 13:30	Tue 09/05/23 17:30	Direct Engineering	
2056				Lap valve seats	13 hrs	2055	Tue 09/05/23 17:30	Thu 11/05/23 09:30	Direct Engineering	
2057				Inspect valve	2.5 hrs	2056	Thu 11/05/23 09:30	Thu 11/05/23 12:00	INS-Util3	
2058				Reassemble valve	5 hrs	2057	Thu 11/05/23 13:00	Thu 11/05/23 18:00	Direct Engineering	
2059				Clear permit	1 hr	2058	Thu 11/05/23 18:00	Fri 12/05/23 08:00	FT-Util1	
2060		53A GEN VALVE	R363083	BASHUT-0183 - # 2 BOILER FEED STATION - Overhaul Isolation Valves	84.25 hrs		Tue 09/05/23 17:30	Thu 18/05/23 10:45		
2061				Erect scaffold	4 hrs	2055	Tue 09/05/23 17:30	Wed 10/05/23 10:30	RSC Scaffold	
2062				Make out permit	0.75 hrs	2061	Wed 10/05/23 10:30	Wed 10/05/23 11:15	Operations	
2063				Accept permit	0.5 hrs	2062	Wed 10/05/23 11:15	Wed 10/05/23 11:45	FT-Util1	
2064				Strip valve internals	25 hrs	2063	Wed 10/05/23 11:45	Fri 12/05/23 17:45	Direct Engineering	
2065				Overhaul valves	36 hrs	2064	Fri 12/05/23 17:45	Tue 16/05/23 13:45	Direct Engineering	
2066				Reassemble valve	13 hrs	2065	Tue 16/05/23 13:45	Wed 17/05/23 16:45	Direct Engineering	
2067				Clear permit	1 hr	2066	Wed 17/05/23 16:45	Wed 17/05/23 17:45	FT-Util1	
2068				Remove Scaffold	4 hrs	2067	Wed 17/05/23 17:45	Thu 18/05/23 10:45	RSC Scaffold	
2069		53A GEN VALVE	R363084	BASHUT-0184 - # 2 BOILER MANUAL ISOLATION VALVES - Overhaul first Isolation Valves	82 hrs		Sun 07/05/23 05:00	Mon 15/05/23 09:00		
2070				Erect scaffold	4 hrs		Sun 07/05/23 05:00	Sun 07/05/23 11:00	RSC Scaffold	
2071				Make out permit	0.75 hrs	2070	Sun 07/05/23 11:00	Sun 07/05/23 11:45	Operations	
2072				Accept permit	0.5 hrs	2071	Sun 07/05/23 11:45	Sun 07/05/23 13:15	FT-Util5	
2073				Strip valve internals	8.75 hrs	2072	Sun 07/05/23 13:15	Mon 08/05/23 11:00	Direct Engineering	
2074				Overhaul valves	36 hrs	2073	Mon 08/05/23 11:00	Thu 11/05/23 18:00	Direct Engineering	
2075				Reassemble valve	25 hrs	2074	Fri 12/05/23 07:00	Sun 14/05/23 12:00	Direct Engineering	
2076				Clear permit	1 hr	2075	Sun 14/05/23 12:00	Sun 14/05/23 14:00	FT-Util5	
2077				remove Scaffold	6 hrs	2076	Sun 14/05/23 14:00	Mon 15/05/23 09:00	RSC Scaffold	
2078		53A2GB02A01	R363086	BASHUT-0185 - # 2 BOILER - Inbed Tubes	56.25 hrs		Sun 07/05/23 05:00	Fri 12/05/23 14:15		
2079				Make out permit	0.75 hrs	12	Sun 07/05/23 05:00	Sun 07/05/23 07:45	Operations	
2080				Accept permit	0.5 hrs	2079	Sun 07/05/23 07:45	Sun 07/05/23 08:15	FT-Util7	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2081				Inspect inbed tubes / shrouding	4 hrs	2080	Sun 07/05/23 08:15	Sun 07/05/23 13:15	Direct Engineering	
2082				Replace inbed tubes and shrouding if necessary	50 hrs	2081	Sun 07/05/23 13:15	Fri 12/05/23 13:15	Direct Engineering	
2083				NDT Testing	42 hrs	2082FF	Mon 08/05/23 10:15	Fri 12/05/23 13:15	INS-Util4	
2084				Clear permit	1 hr	2083	Fri 12/05/23 13:15	Fri 12/05/23 14:15	FT-Util7	
2085		53A2GB02A01	R363087	BASHUT-0186 - # 2 BOILER Bunker - Paint	138.25 hrs		Sun 07/05/23 07:00	Sat 20/05/23 16:15		
2086				Erect scaffold	36 hrs	12	Sun 07/05/23 07:00	Wed 10/05/23 14:00		
2087				Make out permit	0.75 hrs	2086	Wed 10/05/23 14:00	Wed 10/05/23 14:45	Operations	
2088				Accept permit	0.5 hrs	2087	Wed 10/05/23 14:45	Wed 10/05/23 15:15	FT-Util7	
2089				Paint Bunkers	64 hrs	2088	Wed 10/05/23 15:15	Wed 17/05/23 08:15	Direct Engineering	
2090				Remove scaffolding	36 hrs	2089	Wed 17/05/23 08:15	Sat 20/05/23 15:15	Direct Engineering	
2091				Clear permit	1 hr	2090	Sat 20/05/23 15:15	Sat 20/05/23 16:15	FT-Util7	
2092		53A2GB02A01	R363088	BASHUT-0187 - # 2 BOILER - Inspect Bed seal	56.25 hrs		Fri 12/05/23 13:15	Thu 18/05/23 08:30		
2093				Make out permit	0.75 hrs	12,2083	Fri 12/05/23 13:15	Fri 12/05/23 14:00	Operations	
2094				Accept permit	0.5 hrs	2093	Fri 12/05/23 14:00	Fri 12/05/23 14:30	FT-Util7	
2095				Inspect Bed seal	4 hrs	2094	Fri 12/05/23 14:30	Sat 13/05/23 07:30	Direct Engineering	
2096				Repair Bed seal if necessary	50 hrs	2095	Sat 13/05/23 07:30	Thu 18/05/23 07:30	Direct Engineering	
2097				Clear permit	1 hr	2096	Thu 18/05/23 07:30	Thu 18/05/23 08:30	FT-Util7	
2098				INSTRUMENTATION	100.75 hrs	12	Sun 07/05/23 05:00	Wed 17/05/23 07:45		
2099		53A UTIL STRUCT	R357362	BASHUT-0188 - THERMOCOUPLES POCKETS - Carry out inspection	84.25 hrs		Sun 07/05/23 11:00	Mon 15/05/23 16:15		
2100			R357362	Make out permit	0.75 hrs	2070	Sun 07/05/23 11:00	Sun 07/05/23 11:45	Operations	
2101			R357362	Accept permit	0.5 hrs	2100	Sun 07/05/23 11:45	Sun 07/05/23 13:15	INS-Util7	
2102			R357362	Remove pockets	30 hrs	2101	Sun 07/05/23 13:15	Wed 10/05/23 13:15	BM-Util2	
2103			R357362	Fabricate	17 hrs	2102	Wed 10/05/23 13:15	Fri 12/05/23 09:15	BM-Util2	
2104			R357362	Machining	8 hrs	2103	Fri 12/05/23 09:15	Sat 13/05/23 07:15	INS-Util7	
2105			R357362	Install pockets	27 hrs	2104	Sat 13/05/23 07:15	Mon 15/05/23 15:15	INS-Util7	
2106			R357362	Clear permit	1 hr	2105	Mon 15/05/23 15:15	Mon 15/05/23 16:15	INS-Util7	
2107		53A2GA09A03	R357364	BASHUT-0189 - # 2 BOILER BURNERS - 1,2,3, 4 - Overhaul igniters	67.5 hrs		Wed 10/05/23 08:15	Tue 16/05/23 16:45		
2108			R357364	Make Out Permit	0.25 hrs	1896	Wed 10/05/23 08:15	Wed 10/05/23 08:30	Operations	
2109			R357364	Accept Permit	0.25 hrs	2108	Wed 10/05/23 08:30	Wed 10/05/23 08:45	K Ntatane,O Gobotswang	
2110			R357364	Remove Igniters	13 hrs	2109	Wed 10/05/23 08:45	Thu 11/05/23 11:45	K Ntatane,O Gobotswang	
2111			R357364	Overhaul Igniters	36 hrs	2110	Thu 11/05/23 11:45	Mon 15/05/23 07:45	K Ntatane,O Gobotswang	
2112			R357364	Install Igniters	13 hrs	2111	Mon 15/05/23 07:45	Tue 16/05/23 10:45	K Ntatane,O Gobotswang	
2113			R357364	Carry Out Inspection	4 hrs	2112	Tue 16/05/23 10:45	Tue 16/05/23 15:45	K Ntatane,O Gobotswang	
2114			R357364	Clear Permit	1 hr	2113	Tue 16/05/23 15:45	Tue 16/05/23 16:45	K Ntatane,O Gobotswang	
2115		53A2GB01A01	R357365	BASHUT-0190 - # 2 BOILER FD FAN 1 - Check all trips	14.75 hrs		Sun 07/05/23 05:00	Mon 08/05/23 11:45		
2116			R357365	Make Out Permit	0.25 hrs	10	Sun 07/05/23 05:00	Sun 07/05/23 07:15	Operations	
2117			R357365	Accept Permit	0.25 hrs	2116	Sun 07/05/23 07:15	Sun 07/05/23 07:30	O Gobotswang,K Ntatane	
2118			R357365	Check All Trips	6 hrs	2117	Sun 07/05/23 07:30	Sun 07/05/23 14:30	O Gobotswang,K Ntatane	
2119			R357365	Carry Out Inspection	8 hrs	2118	Sun 07/05/23 14:30	Mon 08/05/23 11:30	O Gobotswang,K Ntatane	
2120			R357365	Clear Permit	0.25 hrs	2119	Mon 08/05/23 11:30	Mon 08/05/23 11:45	O Gobotswang,K Ntatane	
2121		53A2GB01A02	R357367	BASHUT-0191 - # 2 BOILER FD FAN 2 - Check all trips	35 hrs		Sun 07/05/23 07:15	Wed 10/05/23 13:15		
2122			R357367	Make Out Permit	0.25 hrs	2116	Sun 07/05/23 07:15	Sun 07/05/23 07:30	Operations	
2123			R357367	Accept Permit	0.5 hrs	2122	Sun 07/05/23 07:30	Sun 07/05/23 08:00	O Gobotswang,K Ntatane	
2124			R357367	Check All Trips	26 hrs	2123	Sun 07/05/23 08:00	Tue 09/05/23 15:00	O Gobotswang,K Ntatane	
2125			R357367	Carry Out Inspection	8 hrs	2124	Tue 09/05/23 15:00	Wed 10/05/23 12:00	O Gobotswang,K Ntatane	
2126			R357367	Clear Permit	0.25 hrs	2125	Wed 10/05/23 12:00	Wed 10/05/23 13:15	O Gobotswang,K Ntatane	
2127		53A2GB01A01	R357368	BASHUT-0192 - # 2 BOILER FD FAN 1 - Service damper cylinders	35.75 hrs		Sun 07/05/23 07:30	Wed 10/05/23 14:15		
2128			R357368	Make Out Permit	0.25 hrs	2122	Sun 07/05/23 07:30	Sun 07/05/23 07:45	Operations	
2129			R357368	Accept Permit	0.25 hrs	2128	Sun 07/05/23 07:45	Sun 07/05/23 08:00	O Gobotswang,K Ntatane	
2130			R357368	Remove Damper	8 hrs	2129	Sun 07/05/23 08:00	Sun 07/05/23 17:00	O Gobotswang,K Ntatane	
2131			R357368	Service Dampers Cylinders In Workshop	13 hrs	2130	Sun 07/05/23 17:00	Tue 09/05/23 09:00	O Gobotswang,K Ntatane	
2132			R357368	Install Cylinder	8 hrs	2131	Tue 09/05/23 09:00	Tue 09/05/23 18:00	O Gobotswang,K Ntatane	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2133			R357368	Carry Out Inspection	6 hrs	2132	Wed 10/05/23 07:00	Wed 10/05/23 14:00	O Gobotswang,K Ntatane	
2134			R357368	Clear Permit	0.25 hrs	2133	Wed 10/05/23 14:00	Wed 10/05/23 14:15	O Gobotswang,K Ntatane	
2135		53A2GB01A02	R363090	BASHUT-0193 - # 2 BOILER FD FAN 2 - Service damper cylinders	36.75 hrs		Sun 07/05/23 07:45	Wed 10/05/23 15:30		
2136				Make Out Permit	0.25 hrs	2128	Sun 07/05/23 07:45	Sun 07/05/23 08:00	Operations	
2137				Accept Permit	0.5 hrs	2136	Sun 07/05/23 08:00	Sun 07/05/23 08:30	O Gobotswang,K Ntatane	
2138				Remove Damper	8 hrs	2137	Sun 07/05/23 08:30	Sun 07/05/23 17:30	O Gobotswang,K Ntatane	
2139				Service Dampers Cylinders In Workshop	13 hrs	2138	Sun 07/05/23 17:30	Tue 09/05/23 09:30	O Gobotswang,K Ntatane	
2140				Install Cylinder	8 hrs	2139	Tue 09/05/23 09:30	Wed 10/05/23 07:30	O Gobotswang,K Ntatane	
2141				Carry Out Inspection	6 hrs	2140	Wed 10/05/23 07:30	Wed 10/05/23 14:30	O Gobotswang,K Ntatane	
2142				Clear Permit	1 hr	2141	Wed 10/05/23 14:30	Wed 10/05/23 15:30	O Gobotswang,K Ntatane	
2143		53A2GB04A02	R357371	BASHUT-0194 - # 2 BOILER ID FAN - Inspect cylinder & stroke check valve to dcs	18.25 hrs		Sun 07/05/23 08:00	Mon 08/05/23 17:15		
2144			R357371	Make Out Permit	0.75 hrs	2136	Sun 07/05/23 08:00	Sun 07/05/23 08:45	Operations	
2145			R357371	Accept Permit	0.5 hrs	2144	Sun 07/05/23 08:45	Sun 07/05/23 09:15	O Gobotswang,K Ntatane	
2146			R357371	Inspect Cylinder	6 hrs	2145	Sun 07/05/23 09:15	Sun 07/05/23 16:15	O Gobotswang,K Ntatane	
2147			R357371	Stroke Damper To Dcs	6 hrs	2146	Sun 07/05/23 16:15	Mon 08/05/23 11:15	O Gobotswang,K Ntatane	
2148			R357371	Carry Out Inspection	4 hrs	2147	Mon 08/05/23 11:15	Mon 08/05/23 16:15	O Gobotswang,K Ntatane	
2149			R357371	Clear Permit	1 hr	2148	Mon 08/05/23 16:15	Mon 08/05/23 17:15	O Gobotswang,K Ntatane	
2150		53A2GB04A02	R357373	BASHUT-0195 - # 2 BOILER ID FAN - Check all trips	16.25 hrs		Sun 07/05/23 08:45	Mon 08/05/23 16:00		
2151			R357373	Make Out Permit	0.75 hrs	2144	Sun 07/05/23 08:45	Sun 07/05/23 09:30	Operations	
2152			R357373	Accept Permit	0.5 hrs	2151	Sun 07/05/23 09:30	Sun 07/05/23 10:00	K Ntatane,O Gobotswang	
2153			R357373	Check All Trips	8 hrs	2152	Sun 07/05/23 10:00	Mon 08/05/23 08:00	K Ntatane,O Gobotswang	
2154			R357373	Carry Out Inspection	6 hrs	2153	Mon 08/05/23 08:00	Mon 08/05/23 15:00	J Baaisi	
2155			R357373	Clear Permit	1 hr	2154	Mon 08/05/23 15:00	Mon 08/05/23 16:00	K Ntatane,O Gobotswang	
2156		53A2GB04A02	R357374	BASHUT-0196 - # 2 BOILER ID FAN - Clean,flush and drain oil & clean air vents	42.25 hrs		Sun 07/05/23 09:30	Thu 11/05/23 11:45		
2157			R357374	Make Out Permit	0.75 hrs	2151	Sun 07/05/23 09:30	Sun 07/05/23 10:15	Operations	
2158			R357374	Accept Permit	0.5 hrs	2157	Sun 07/05/23 10:15	Sun 07/05/23 10:45	O Galeboe,O Chakama	
2159			R357374	Loosen & Remove Covers	4 hrs	2158	Sun 07/05/23 10:45	Sun 07/05/23 15:45	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala	
2160			R357374	Inspect Bearing & Grease	4 hrs	2159	Sun 07/05/23 15:45	Mon 08/05/23 08:45	O Tshwene,N Masala	
2161			R357374	Clean Air Vents	13 hrs	2160	Mon 08/05/23 08:45	Tue 09/05/23 11:45	O Galeboe,O Chakama	
2162			R357374	Replace & Box Up Covers	13 hrs	2161	Tue 09/05/23 11:45	Wed 10/05/23 15:45	100,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala	
2163			R357374	Carry Out Inspection	6 hrs	2162	Wed 10/05/23 15:45	Thu 11/05/23 10:45	Reliability	
2164			R357374	Clear Permit	1 hr	2163	Thu 11/05/23 10:45	Thu 11/05/23 11:45	O Tshwene,N Masala	
2165		53TI233	R363091	BASHUT-0197 - # 2 BOILER ID FAN - mount and connect box	42.25 hrs		Sun 07/05/23 10:15	Thu 11/05/23 13:30		
2166				Make out permit	0.75 hrs	2157	Sun 07/05/23 10:15	Sun 07/05/23 11:00	Operations	
2167				Accept permit	0.5 hrs	2166	Sun 07/05/23 11:00	Sun 07/05/23 11:30	K Ntatane,O Gobotswang	
2168				Remove old instruments and box	8 hrs	2167	Sun 07/05/23 11:30	Mon 08/05/23 09:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2169				Prepare for the new instruments and box	4 hrs	2168	Mon 08/05/23 09:30	Mon 08/05/23 14:30	K Ntatane,O Gobotswang	
2170				Installation of probes	6 hrs	2169	Mon 08/05/23 14:30	Tue 09/05/23 09:30	L David,J Mothatego,K Ntatane,O Gobotswang	
2171				Mount and connect box	5 hrs	2170	Tue 09/05/23 09:30	Tue 09/05/23 15:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2172				Change configuration from old to new set up	5 hrs	2171	Tue 09/05/23 15:30	Wed 10/05/23 09:30	K Ntatane,O Gobotswang	
2173				Simulation of trip checks to DCS and Field	4 hrs	2172	Wed 10/05/23 09:30	Wed 10/05/23 14:30	K Ntatane,O Gobotswang	
2174				Reconnect new probes to the new system	4 hrs	2173	Wed 10/05/23 14:30	Thu 11/05/23 07:30	K Ntatane,O Gobotswang	
2175				Check and compare readings for local, field and DCS adjust where necessary 4.0hrs	4 hrs	2174	Thu 11/05/23 07:30	Thu 11/05/23 11:30	K Ntatane,O Gobotswang	
2176				Clear permit	1 hr	2175	Thu 11/05/23 11:30	Thu 11/05/23 13:30	K Ntatane,O Gobotswang	
2177		53A2GB01A02	R363093	BASHUT-0198 - # 2 BOILER - UNDERBED DAMPERS - Overhaul damper cylinders	58.25 hrs		Sun 07/05/23 11:00	Sat 13/05/23 09:15		
2178				Make Out Permit	0.75 hrs	2166	Sun 07/05/23 11:00	Sun 07/05/23 11:45	Operations	
2179				Accept Permit	0.5 hrs	2178	Sun 07/05/23 11:45	Sun 07/05/23 13:15	K Ntatane,O Gobotswang	
2180				Stroke All Dampers	8 hrs	2179	Sun 07/05/23 13:15	Mon 08/05/23 10:15	K Ntatane,O Gobotswang	
2181				Remove Faulty Dampers (12 off) 6 done	6 hrs	2180	Mon 08/05/23 10:15	Mon 08/05/23 17:15	K Ntatane,O Gobotswang	
2182				Overhaul Dampers	24 hrs	2181	Mon 08/05/23 17:15	Thu 11/05/23 10:15	K Ntatane,O Gobotswang	
2183				Replace Dampers	8 hrs	2182	Thu 11/05/23 10:15	Fri 12/05/23 08:15	K Ntatane,O Gobotswang	
2184				Stroke Dampers	6 hrs	2183	Fri 12/05/23 08:15	Fri 12/05/23 15:15	K Ntatane,O Gobotswang	

 UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL FINAL EXECUTION DOCUMENT										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2185				Carry Out Inspection	4 hrs	2184	Fri 12/05/23 15:15	Sat 13/05/23 08:15	K Ntatane,O Gobotswang	
2186				Clear Permit	1 hr	2185	Sat 13/05/23 08:15	Sat 13/05/23 09:15	K Ntatane,O Gobotswang	
2187		53A	R363094	BASHUT-0199 - # 2 BOILER PRESSURE GAUGES - Calibrate & service gauges	66.25 hrs		Sun 07/05/23 11:45	Sun 14/05/23 08:00		
2188				Make Out Permit	0.75 hrs	2178	Sun 07/05/23 11:45	Sun 07/05/23 13:30	Operations	
2189				Accept Permit	0.5 hrs	2188	Sun 07/05/23 13:30	Sun 07/05/23 14:00	K Ntatane,O Gobotswang	
2190				Remove All Press. Gauges	8 hrs	2189	Sun 07/05/23 14:00	Mon 08/05/23 11:00	K Ntatane,O Gobotswang	
2191				Cal.& Service Gauges	13 hrs	2190	Mon 08/05/23 11:00	Tue 09/05/23 15:00	K Ntatane,O Gobotswang	
2192				Mark All Gauges	13 hrs	2191	Tue 09/05/23 15:00	Wed 10/05/23 18:00	K Ntatane,O Gobotswang	
2193				Replace All Pressure Gauges	24 hrs	2192	Thu 11/05/23 07:00	Sat 13/05/23 11:00	K Ntatane,O Gobotswang	
2194				Carry Out Inspection	6 hrs	2193	Sat 13/05/23 11:00	Sat 13/05/23 18:00	J Baaisi	
2195				Clear Permit	1 hr	2194	Sat 13/05/23 18:00	Sun 14/05/23 08:00	K Ntatane,O Gobotswang	
2196		53A6FI201	R363096	BASHUT-0200 - # 2 BOILER DRUM CONSTANT BLOWDOWN VALVE - Service valve	96 hrs		Sun 07/05/23 11:45	Wed 17/05/23 07:45		
2197				Make Out Permit	6.5 hrs	2100	Sun 07/05/23 11:45	Mon 08/05/23 08:15	Operations	
2198				Accept Permit	0.5 hrs	2197	Mon 08/05/23 08:15	Mon 08/05/23 08:45	K Ntatane,O Gobotswang	
2199				Disconnect Valve Instruments	6 hrs	2198	Mon 08/05/23 08:45	Mon 08/05/23 15:45	K Ntatane,O Gobotswang	
2200				Remove Valve	3.75 hrs	2199	Mon 08/05/23 15:45	Tue 09/05/23 08:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Ma	
2201				Transport To Workshop	1 hr	2200	Tue 09/05/23 08:30	Tue 09/05/23 09:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2202				Overhaul Valve	27.25 hrs	2201	Tue 09/05/23 09:30	Thu 11/05/23 17:45	App Weld(cci),K Ntatane,O Gobotswang	
2203				Transport To Plant	1 hr	2202	Thu 11/05/23 17:45	Fri 12/05/23 07:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2204				Install Valve	6 hrs	2203	Fri 12/05/23 07:45	Fri 12/05/23 14:45	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O	
2205				Reconnect Valve Instruments	13 hrs	2204	Fri 12/05/23 14:45	Sat 13/05/23 17:45	App Weld(cci),K Ntatane,O Gobotswang	
2206				Stroke Check Valve To Dcs	24 hrs	2205	Sat 13/05/23 17:45	Tue 16/05/23 10:45	K Ntatane,O Gobotswang	
2207				Carry Out Inspection	6 hrs	2206	Tue 16/05/23 10:45	Tue 16/05/23 17:45	J Baaisi	
2208				Clear Permit	1 hr	2207	Tue 16/05/23 17:45	Wed 17/05/23 07:45	K Ntatane,O Gobotswang	
2209		53A6TV 204A	R363097	BASHUT-0201 - # 2 BOILER SUPERHEATER SECONDARY TEMP VALVE , Rhs - Remove& overh	75 hrs		Sun 07/05/23 11:45	Sun 14/05/23 17:45		
2210				Make Out Permit	6.5 hrs	2197SS	Sun 07/05/23 11:45	Mon 08/05/23 08:15	Operations	
2211				Accept Permit	0.5 hrs	2210	Mon 08/05/23 08:15	Mon 08/05/23 08:45	K Ntatane,O Gobotswang	
2212				Disconnect Valve Instruments	4 hrs	2211	Mon 08/05/23 08:45	Mon 08/05/23 13:45	K Ntatane,O Gobotswang	
2213				Remove Valve	3 hrs	2212	Mon 08/05/23 13:45	Mon 08/05/23 16:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Ma	
2214				Transport To Workshop	2.75 hrs	2213	Mon 08/05/23 16:45	Tue 09/05/23 08:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2215				Overhaul Valve	29.25 hrs	2214	Tue 09/05/23 08:30	Fri 12/05/23 07:45	App Weld(cci),K Ntatane,O Gobotswang	
2216				Transport To Plant	1 hr	2215	Fri 12/05/23 07:45	Fri 12/05/23 08:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2217				Install Valve	6 hrs	2216	Fri 12/05/23 08:45	Fri 12/05/23 15:45	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O	
2218				Reconnect Valve Instruments	4 hrs	2217	Fri 12/05/23 15:45	Sat 13/05/23 08:45	App Weld(cci),K Ntatane,O Gobotswang	
2219				Stroke Check Valve To Dcs	13 hrs	2218	Sat 13/05/23 08:45	Sun 14/05/23 11:45	K Ntatane,O Gobotswang	
2220				Carry Out Inspection	4 hrs	2219	Sun 14/05/23 11:45	Sun 14/05/23 16:45	J Baaisi	
2221				Clear Permit	1 hr	2220	Sun 14/05/23 16:45	Sun 14/05/23 17:45	K Ntatane,O Gobotswang	
2222		53A6TV 204B	R363098	BASHUT-0201 - # 2 BOILER SUPERHEATER SECONDARY TEMP VALVE , Lhs - Remove& overh	71 hrs		Mon 08/05/23 08:15	Mon 15/05/23 09:15		
2223				Make Out Permit	0.75 hrs	2210	Mon 08/05/23 08:15	Mon 08/05/23 09:00	Operations	
2224				Accept Permit	0.5 hrs	2223	Mon 08/05/23 09:00	Mon 08/05/23 09:30	K Ntatane,O Gobotswang	
2225				Disconnect Valve Instruments	6 hrs	2224	Mon 08/05/23 09:30	Mon 08/05/23 16:30	K Ntatane,O Gobotswang	
2226				Remove Valve	5 hrs	2225	Mon 08/05/23 16:30	Tue 09/05/23 10:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Ma	
2227				Transport To Workshop	1 hr	2226	Tue 09/05/23 10:30	Tue 09/05/23 11:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2228				Overhaul Valve	24 hrs	2227	Tue 09/05/23 11:30	Thu 11/05/23 16:30	App Weld(cci),K Ntatane,O Gobotswang	
2229				Transport To Plant	1 hr	2228	Thu 11/05/23 16:30	Thu 11/05/23 17:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
2230				Install Valve	6 hrs	2229	Thu 11/05/23 17:30	Fri 12/05/23 13:30	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,O	
2231				Reconnect Valve Instruments	4 hrs	2230	Fri 12/05/23 13:30	Fri 12/05/23 17:30	App Weld(cci),K Ntatane,O Gobotswang	
2232				Stroke Check Valve To Dcs	13 hrs	2231	Fri 12/05/23 17:30	Sun 14/05/23 09:30	K Ntatane,O Gobotswang	
2233				Carry Out Inspection	8.75 hrs	2232	Sun 14/05/23 09:30	Mon 15/05/23 08:15	J Baaisi	
2234				Clear Permit	1 hr	2233	Mon 15/05/23 08:15	Mon 15/05/23 09:15	K Ntatane,O Gobotswang	
2235			R363099	BASHUT-0202 - Airflow Calibration	18.25 hrs		Thu 11/05/23 16:30	Sat 13/05/23 14:45		
2236				Make out permit	0.75 hrs	2228	Thu 11/05/23 16:30	Thu 11/05/23 17:15	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2237				Accept permit	0.5 hrs	2236	Thu 11/05/23 17:15	Thu 11/05/23 17:45	K Ntatane,O Gobotswang	
2238				Connect Pitot tube	6 hrs	2237	Thu 11/05/23 17:45	Fri 12/05/23 13:45	K Ntatane,O Gobotswang,O Tshwene	
2239				Measure duct pressure	4 hrs	2238	Fri 12/05/23 13:45	Fri 12/05/23 17:45	K Ntatane,O Gobotswang,O Tshwene	
2240				Recording at different insertion points	6 hrs	2239	Fri 12/05/23 17:45	Sat 13/05/23 13:45	K Ntatane,O Gobotswang	
2241				Clear permit	1 hr	2240	Sat 13/05/23 13:45	Sat 13/05/23 14:45	K Ntatane,O Gobotswang	
2242				ELECTRICAL	78.5 hrs	12	Sun 07/05/23 11:45	Mon 15/05/23 10:15		
2243		53A2GB02A02	R359885	BASHUT-0203 - # 2 BOILER # 1 FD FAN - Electrical services	11.25 hrs		Wed 10/05/23 10:15	Thu 11/05/23 11:30		
2244			R359885	Make Out Permit	0.25 hrs	1943	Wed 10/05/23 10:15	Wed 10/05/23 10:30	Operations	
2245			R359885	Accept Permit	0.25 hrs	2244	Wed 10/05/23 10:30	Wed 10/05/23 10:45	O Galeboe,O Chakama	
2246			R359885	Prepair Clearance Certificate	0.25 hrs	2245	Wed 10/05/23 10:45	Wed 10/05/23 11:00	O Galeboe,O Chakama	
2247			R359885	Carry Out Electrical Isolation	0.25 hrs	2246	Wed 10/05/23 11:00	Wed 10/05/23 11:15	O Galeboe,O Chakama	
2248			R359885	Check Motor Fan Condition	0.25 hrs	2247	Wed 10/05/23 11:15	Wed 10/05/23 11:30	O Galeboe,O Chakama	
2249			R359885	Inspect Terminal Box Interior& Capacitor Condition	0.5 hrs	2248	Wed 10/05/23 11:30	Wed 10/05/23 12:00	O Galeboe,O Chakama	
2250			R359885	Check Gland& Terminal Box Gasket	0.25 hrs	2249	Wed 10/05/23 13:00	Wed 10/05/23 13:15	O Galeboe,O Chakama	
2251			R359885	Drain Oil And Open Fan Cover	2 hrs	2250	Wed 10/05/23 13:15	Wed 10/05/23 15:15	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
2252			R359885	Clean Motor Air Vents	4 hrs	2251	Wed 10/05/23 15:15	Thu 11/05/23 08:15	O Galeboe,O Chakama	
2253			R359885	Close Fan Cover And Fill Oil	2 hrs	2252	Thu 11/05/23 08:15	Thu 11/05/23 10:15	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
2254			R359885	Seal For Moisture And Dust.	1 hr	2253	Thu 11/05/23 10:15	Thu 11/05/23 11:15	O Galeboe,O Chakama	
2255			R359885	Clear Permit	0.25 hrs	2254	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
2256		53A2GB02A02	R359887	BASHUT-0204 - # 2 BOILER # 2 FD FAN - Electrical services	11.25 hrs		Wed 10/05/23 11:15	Thu 11/05/23 13:30		
2257			R359887	Make Out Permit	0.25 hrs	2247	Wed 10/05/23 11:15	Wed 10/05/23 11:30	Operations	
2258			R359887	Accept Permit	0.25 hrs	2257	Wed 10/05/23 11:30	Wed 10/05/23 11:45	O Galeboe,O Chakama	
2259			R359887	Prepair Clearance Certificate	0.25 hrs	2258	Wed 10/05/23 11:45	Wed 10/05/23 12:00	O Galeboe,O Chakama	
2260			R359887	Carry Out Electrical Isolation	0.25 hrs	2259	Wed 10/05/23 13:00	Wed 10/05/23 13:15	O Galeboe,O Chakama	
2261			R359887	Check Motor Fan Condition	0.25 hrs	2260	Wed 10/05/23 13:15	Wed 10/05/23 13:30	O Galeboe,O Chakama	
2262			R359887	Inspect Terminal Box Interior& Capacitor Condition	0.5 hrs	2261	Wed 10/05/23 13:30	Wed 10/05/23 14:00	O Galeboe,O Chakama	
2263			R359887	Check Gland& Terminal Box Gasket	0.25 hrs	2262	Wed 10/05/23 14:00	Wed 10/05/23 14:15	O Galeboe,O Chakama	
2264			R359887	Drain Oil And Open Fan Cover	2 hrs	2263	Wed 10/05/23 14:15	Wed 10/05/23 16:15	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
2265			R359887	Clean Motor Air Vents	4 hrs	2264	Wed 10/05/23 16:15	Thu 11/05/23 09:15	O Galeboe,O Chakama	
2266			R359887	Close Fan Cover And Fill Oil	2 hrs	2265	Thu 11/05/23 09:15	Thu 11/05/23 11:15	O Galeboe,O Chakama,T Mmatli,G moiseraela,J Mosenya	
2267			R359887	Seal For Moisture And Dust.	1 hr	2266	Thu 11/05/23 11:15	Thu 11/05/23 13:15	O Galeboe,O Chakama	
2268			R359887	Clear Permit	0.25 hrs	2267	Thu 11/05/23 13:15	Thu 11/05/23 13:30	O Galeboe,O Chakama	
2269		53A2GB04A02	R359888	BASHUT-0205 - # 2 BOILER ID FAN - Electrical services	11.25 hrs		Sun 07/05/23 16:30	Mon 08/05/23 17:45		
2270			R359888	Make Out Permit	0.25 hrs	2003	Sun 07/05/23 16:30	Sun 07/05/23 16:45	Operations	
2271			R359888	Accept Permit	0.25 hrs	2270	Sun 07/05/23 16:45	Sun 07/05/23 17:00	O Chakama,O Galeboe	
2272			R359888	Prepair Clearance Certificate	0.25 hrs	2271	Sun 07/05/23 17:00	Sun 07/05/23 17:15	O Chakama,O Galeboe	
2273			R359888	Carry Out Electrical Isolation	0.25 hrs	2272	Sun 07/05/23 17:15	Sun 07/05/23 17:30	O Chakama,O Galeboe	
2274			R359888	Check Motor Fan Condition	0.25 hrs	2273	Sun 07/05/23 17:30	Sun 07/05/23 17:45	O Chakama,O Galeboe	
2275			R359888	Inspect Terminal Box Interior& Capacitor Condition	0.5 hrs	2274	Sun 07/05/23 17:45	Mon 08/05/23 07:15	O Chakama,O Galeboe	
2276			R359888	Check Gland& Terminal Box Gasket	0.25 hrs	2275	Mon 08/05/23 07:15	Mon 08/05/23 07:30	O Chakama,O Galeboe	
2277			R359888	Drain Oil And Open Fan Cover	2 hrs	2276	Mon 08/05/23 07:30	Mon 08/05/23 09:30	O Chakama,T Mmatli,G moiseraela,J Mosenya,O Galeboe	
2278			R359888	Clean Motor Air Vents	4 hrs	2277	Mon 08/05/23 09:30	Mon 08/05/23 14:30	O Chakama,O Galeboe	
2279			R359888	Close Fan Cover And Fill Oil	2 hrs	2278	Mon 08/05/23 14:30	Mon 08/05/23 16:30	O Chakama,T Mmatli,G moiseraela,J Mosenya,O Galeboe	
2280			R359888	Seal For Moisture And Dust.	1 hr	2279	Mon 08/05/23 16:30	Mon 08/05/23 17:30	O Chakama,O Galeboe	
2281			R359888	Clear Permit	0.25 hrs	2280	Mon 08/05/23 17:30	Mon 08/05/23 17:45	O Chakama,O Galeboe	
2282		53A2K-02A01	R357392	BASHUT-0206 - # 2 BAGHOUSE DUST SCREW MASTER Electrical Services - Carry out mainte	28 hrs		Wed 10/05/23 11:45	Sat 13/05/23 09:45		
2283			R357392	Make Out Permit	0.25 hrs	2033	Wed 10/05/23 11:45	Wed 10/05/23 12:00	Operations	
2284			R357392	Accept Permit	0.25 hrs	2283	Wed 10/05/23 13:00	Wed 10/05/23 13:15	O Galeboe,O Chakama	
2285			R357392	Carry Out Electrical Isolation	0.25 hrs	2284	Wed 10/05/23 13:15	Wed 10/05/23 13:30	O Galeboe,O Chakama	
2286			R357392	Check Loose Connections In The Panel	0.5 hrs	2285	Wed 10/05/23 13:30	Wed 10/05/23 14:00	O Galeboe,O Chakama	
2287			R357392	Check Contactor Contacts	0.5 hrs	2286	Wed 10/05/23 14:00	Wed 10/05/23 14:30	O Galeboe,O Chakama	
2288			R357392	Service Field Stop/Start	0.25 hrs	2287	Wed 10/05/23 14:30	Wed 10/05/23 14:45	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2289			R357392	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2288	Wed 10/05/23 14:45	Sat 13/05/23 07:45	O Galeboe,O Chakama	
2290			R357392	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2289	Sat 13/05/23 07:45	Sat 13/05/23 08:00	O Galeboe,O Chakama	
2291			R357392	Confirm Correct Protection Settings	0.5 hrs	2290	Sat 13/05/23 08:00	Sat 13/05/23 08:30	O Galeboe,O Chakama	
2292			R357392	Seal For Moisture And Dust.	1 hr	2291	Sat 13/05/23 08:30	Sat 13/05/23 09:30	O Galeboe,O Chakama	
2293			R357392	Clear Permit	0.25 hrs	2292	Sat 13/05/23 09:30	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2294		53A2K-03A01	R357393	BASHUT-0207 - # 2 BAGHOUSE DUST SCREW SLAVE Electrical Services - Carry out maintena	28 hrs		Wed 10/05/23 12:00	Sat 13/05/23 10:00		
2295			R357393	Make Out Permit	0.25 hrs	2283	Wed 10/05/23 12:00	Wed 10/05/23 13:15	Operations	
2296			R357393	Accept Permit	0.25 hrs	2295	Wed 10/05/23 13:15	Wed 10/05/23 13:30	O Galeboe,O Chakama	
2297			R357393	Carry Out Electrical Isolation	0.25 hrs	2296	Wed 10/05/23 13:30	Wed 10/05/23 13:45	O Galeboe,O Chakama	
2298			R357393	Check Loose Connections In The Panel	0.5 hrs	2297	Wed 10/05/23 13:45	Wed 10/05/23 14:15	O Galeboe,O Chakama	
2299			R357393	Check Contactor Contacts	0.5 hrs	2298	Wed 10/05/23 14:15	Wed 10/05/23 14:45	O Galeboe,O Chakama	
2300			R357393	Service Field Stop/Start	0.25 hrs	2299	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2301			R357393	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2300	Wed 10/05/23 15:00	Sat 13/05/23 08:00	O Galeboe,O Chakama	
2302			R357393	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2301	Sat 13/05/23 08:00	Sat 13/05/23 08:15	O Galeboe,O Chakama	
2303			R357393	Confirm Correct Protection Settings	0.5 hrs	2302	Sat 13/05/23 08:15	Sat 13/05/23 08:45	O Galeboe,O Chakama	
2304			R357393	Seal For Moisture And Dust.	1 hr	2303	Sat 13/05/23 08:45	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2305			R357393	Clear Permit	0.25 hrs	2304	Sat 13/05/23 09:45	Sat 13/05/23 10:00	O Galeboe,O Chakama	
2306		53A2GB03A02	R357394	BASHUT-0208 - # 2 BOILER FLINGER COOL AIR FAN Electrical Services - Carry out electrical	14.75 hrs		Wed 10/05/23 13:15	Wed 10/05/23 18:00		
2307			R357394	Make Out Permit	0.25 hrs	2295	Wed 10/05/23 13:15	Wed 10/05/23 13:30	Operations	
2308			R357394	Accept Permit	0.25 hrs	2307	Wed 10/05/23 13:30	Wed 10/05/23 13:45	O Galeboe,O Chakama	
2309			R357394	Carry Out Electrical Isolation	0.25 hrs	2308	Wed 10/05/23 13:45	Wed 10/05/23 14:00	O Galeboe,O Chakama	
2310			R357394	Check Loose Connections In The Panel	0.5 hrs	2309	Wed 10/05/23 14:00	Wed 10/05/23 14:30	O Galeboe,O Chakama	
2311			R357394	Check Contactor Contacts	0.5 hrs	2310	Wed 10/05/23 14:30	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2312			R357394	Service Stop/Start	0.25 hrs	2311	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2313			R357394	Insure Motor Mountings Are Secure.	0.25 hrs	2312	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
2314			R357394	Check Motor Fan Condition	0.25 hrs	2313	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2315			R357394	Check Cable Terminal Leads For Over Heating	0.25 hrs	2314	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2316			R357394	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2315	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2317			R357394	Seal For Moisture And Dust.	1 hr	2316	Wed 10/05/23 16:15	Wed 10/05/23 17:15	O Galeboe,O Chakama	
2318			R357394	Confirm Correct Protection Settings	0.5 hrs	2317	Wed 10/05/23 17:15	Wed 10/05/23 17:45	O Galeboe,O Chakama	
2319			R357394	Clear Permit	0.25 hrs	2318	Wed 10/05/23 17:45	Wed 10/05/23 18:00	O Galeboe,O Chakama	
2320		53A2K-12A02	R357395	BASHUT-0209 - # 2 BOILER # 1 BED SAND REMOVAL SCREW Electrical Services - Carry out n	47.75 hrs		Wed 10/05/23 13:30	Mon 15/05/23 10:15		
2321			R357395	Make Out Permit	0.25 hrs	2307	Wed 10/05/23 13:30	Wed 10/05/23 13:45	Operations	
2322			R357395	Accept Permit	0.25 hrs	2321	Wed 10/05/23 13:45	Wed 10/05/23 14:00	O Galeboe,O Chakama	
2323			R357395	Carry Out Electrical Isolation	0.25 hrs	2322	Wed 10/05/23 14:00	Wed 10/05/23 14:15	O Galeboe,O Chakama	
2324			R357395	Check Loose Connections In The Panel	0.5 hrs	2323	Wed 10/05/23 14:15	Wed 10/05/23 14:45	O Galeboe,O Chakama	
2325			R357395	Check Contactor Contacts	0.5 hrs	2324	Wed 10/05/23 14:45	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2326			R357395	Service Field Stop/Start	0.25 hrs	2325	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
2327			R357395	Check Geared Unit Oil Leakage Into The Motor	43.75 hrs	2326	Wed 10/05/23 15:30	Mon 15/05/23 08:15	O Galeboe,O Chakama	
2328			R357395	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2327	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Galeboe,O Chakama	
2329			R357395	Confirm Correct Protection Settings	0.5 hrs	2328	Mon 15/05/23 08:30	Mon 15/05/23 09:00	O Galeboe,O Chakama	
2330			R357395	Seal For Moisture And Dust.	1 hr	2329	Mon 15/05/23 09:00	Mon 15/05/23 10:00	O Galeboe,O Chakama	
2331			R357395	Clear Permit	0.25 hrs	2330	Mon 15/05/23 10:00	Mon 15/05/23 10:15	O Galeboe,O Chakama	
2332		53A2K-13A02	R357396	BASHUT-0210 - # 2 BOILER # 2 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 14:00	Sat 13/05/23 11:00		
2333			R357396	Make Out Permit	0.25 hrs	2322	Wed 10/05/23 14:00	Wed 10/05/23 14:15	Operations	
2334			R357396	Accept Permit	0.25 hrs	2333	Wed 10/05/23 14:15	Wed 10/05/23 14:30	O Galeboe,O Chakama	
2335			R357396	Carry Out Electrical Isolation	0.25 hrs	2334	Wed 10/05/23 14:30	Wed 10/05/23 14:45	O Galeboe,O Chakama	
2336			R357396	Check Loose Connections In The Panel	0.5 hrs	2335	Wed 10/05/23 14:45	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2337			R357396	Check Contactor Contacts	0.5 hrs	2336	Wed 10/05/23 15:15	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2338			R357396	Service Field Stop/Start	0.25 hrs	2337	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2339			R357396	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2338	Wed 10/05/23 16:00	Sat 13/05/23 09:00	O Galeboe,O Chakama	
2340			R357396	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2339	Sat 13/05/23 09:00	Sat 13/05/23 09:15	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2341			R357396	Confirm Correct Protection Settings	0.5 hrs	2340	Sat 13/05/23 09:15	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2342			R357396	Seal For Moisture And Dust.	1 hr	2341	Sat 13/05/23 09:45	Sat 13/05/23 10:45	O Galeboe,O Chakama	
2343			R357396	Clear Permit	0.25 hrs	2342	Sat 13/05/23 10:45	Sat 13/05/23 11:00	O Galeboe,O Chakama	
2344		53A2K-14A02	R357397	BASHUT-0211 - # 2 BOILER # 3 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 14:15	Sat 13/05/23 11:15		
2345			R357397	Make Out Permit	0.25 hrs	2333	Wed 10/05/23 14:15	Wed 10/05/23 14:30	Operations	
2346			R357397	Accept Permit	0.25 hrs	2345	Wed 10/05/23 14:30	Wed 10/05/23 14:45	O Galeboe,O Chakama	
2347			R357397	Carry Out Electrical Isolation	0.25 hrs	2346	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2348			R357397	Check Loose Connections In The Panel	0.5 hrs	2347	Wed 10/05/23 15:00	Wed 10/05/23 15:30	O Galeboe,O Chakama	
2349			R357397	Check Contactor Contacts	0.5 hrs	2348	Wed 10/05/23 15:30	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2350			R357397	Service Field Stop/Start	0.25 hrs	2349	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2351			R357397	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2350	Wed 10/05/23 16:15	Sat 13/05/23 09:15	O Galeboe,O Chakama	
2352			R357397	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2351	Sat 13/05/23 09:15	Sat 13/05/23 09:30	O Galeboe,O Chakama	
2353			R357397	Confirm Correct Protection Settings	0.5 hrs	2352	Sat 13/05/23 09:30	Sat 13/05/23 10:00	O Galeboe,O Chakama	
2354			R357397	Seal For Moisture And Dust.	1 hr	2353	Sat 13/05/23 10:00	Sat 13/05/23 11:00	O Galeboe,O Chakama	
2355			R357397	Clear Permit	0.25 hrs	2354	Sat 13/05/23 11:00	Sat 13/05/23 11:15	O Galeboe,O Chakama	
2356		53A2K-15A02	R357398	BASHUT-0212 - # 2 BOILER # 4 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 14:30	Sat 13/05/23 11:30		
2357			R357398	Make Out Permit	0.25 hrs	2345	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Operations	
2358			R357398	Accept Permit	0.25 hrs	2357	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2359			R357398	Carry Out Electrical Isolation	0.25 hrs	2358	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2360			R357398	Check Loose Connections In The Panel	0.5 hrs	2359	Wed 10/05/23 15:15	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2361			R357398	Check Contactor Contacts	0.5 hrs	2360	Wed 10/05/23 15:45	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2362			R357398	Service Field Stop/Start	0.25 hrs	2361	Wed 10/05/23 16:15	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2363			R357398	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2362	Wed 10/05/23 16:30	Sat 13/05/23 09:30	O Galeboe,O Chakama	
2364			R357398	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2363	Sat 13/05/23 09:30	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2365			R357398	Confirm Correct Protection Settings	0.5 hrs	2364	Sat 13/05/23 09:45	Sat 13/05/23 10:15	O Galeboe,O Chakama	
2366			R357398	Seal For Moisture And Dust.	1 hr	2365	Sat 13/05/23 10:15	Sat 13/05/23 11:15	O Galeboe,O Chakama	
2367			R357398	Clear Permit	0.25 hrs	2366	Sat 13/05/23 11:15	Sat 13/05/23 11:30	O Galeboe,O Chakama	
2368		53A2K-16A02	R357506	BASHUT-0213 - # 2 BOILER # 5 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 14:45	Sat 13/05/23 11:45		
2369			R357506	Make Out Permit	0.25 hrs	2357	Wed 10/05/23 14:45	Wed 10/05/23 15:00	Operations	
2370			R357506	Accept Permit	0.25 hrs	2369	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2371			R357506	Carry Out Electrical Isolation	0.25 hrs	2370	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
2372			R357506	Check Loose Connections In The Panel	0.5 hrs	2371	Wed 10/05/23 15:30	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2373			R357506	Check Contactor Contacts	0.5 hrs	2372	Wed 10/05/23 16:00	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2374			R357506	Service Field Stop/Start	0.25 hrs	2373	Wed 10/05/23 16:30	Wed 10/05/23 16:45	O Galeboe,O Chakama	
2375			R357506	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2374	Wed 10/05/23 16:45	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2376			R357506	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2375	Sat 13/05/23 09:45	Sat 13/05/23 10:00	O Galeboe,O Chakama	
2377			R357506	Confirm Correct Protection Settings	0.5 hrs	2376	Sat 13/05/23 10:00	Sat 13/05/23 10:30	O Galeboe,O Chakama	
2378			R357506	Seal For Moisture And Dust.	1 hr	2377	Sat 13/05/23 10:30	Sat 13/05/23 11:30	O Galeboe,O Chakama	
2379			R357506	Clear Permit	0.25 hrs	2378	Sat 13/05/23 11:30	Sat 13/05/23 11:45	O Galeboe,O Chakama	
2380		53A2K-17A02	R357507	BASHUT-0214 - # 2 BOILER # 6 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 15:00	Sat 13/05/23 12:00		
2381			R357507	Make Out Permit	0.25 hrs	2369	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Operations	
2382			R357507	Accept Permit	0.25 hrs	2381	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
2383			R357507	Carry Out Electrical Isolation	0.25 hrs	2382	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2384			R357507	Check Loose Connections In The Panel	0.5 hrs	2383	Wed 10/05/23 15:45	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2385			R357507	Check Contactor Contacts	0.5 hrs	2384	Wed 10/05/23 16:15	Wed 10/05/23 16:45	O Galeboe,O Chakama	
2386			R357507	Service Field Stop/Start	0.25 hrs	2385	Wed 10/05/23 16:45	Wed 10/05/23 17:00	O Galeboe,O Chakama	
2387			R357507	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2386	Wed 10/05/23 17:00	Sat 13/05/23 10:00	O Galeboe,O Chakama	
2388			R357507	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2387	Sat 13/05/23 10:00	Sat 13/05/23 10:15	O Galeboe,O Chakama	
2389			R357507	Confirm Correct Protection Settings	0.5 hrs	2388	Sat 13/05/23 10:15	Sat 13/05/23 10:45	O Galeboe,O Chakama	
2390			R357507	Seal For Moisture And Dust.	1 hr	2389	Sat 13/05/23 10:45	Sat 13/05/23 11:45	O Galeboe,O Chakama	
2391			R357507	Clear Permit	0.25 hrs	2390	Sat 13/05/23 11:45	Sat 13/05/23 12:00	O Galeboe,O Chakama	
2392		53A2K-18A02	R357508	BASHUT-0215 - # 2 BOILER # 7 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 15:15	Sat 13/05/23 13:15		

 UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL FINAL EXECUTION DOCUMENT										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2393			R357508	Make Out Permit	0.25 hrs	2381	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Operations	
2394			R357508	Accept Permit	0.25 hrs	2393	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Chakama,O Galeboe	
2395			R357508	Carry Out Electrical Isolation	0.25 hrs	2394	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Chakama,O Galeboe	
2396			R357508	Check Loose Connections In The Panel	0.5 hrs	2395	Wed 10/05/23 16:00	Wed 10/05/23 16:30	O Chakama,O Galeboe	
2397			R357508	Check Contactor Contacts	0.5 hrs	2396	Wed 10/05/23 16:30	Wed 10/05/23 17:00	O Chakama,O Galeboe	
2398			R357508	Service Field Stop/Start	0.25 hrs	2397	Wed 10/05/23 17:00	Wed 10/05/23 17:15	O Chakama,O Galeboe	
2399			R357508	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2398	Wed 10/05/23 17:15	Sat 13/05/23 10:15	O Chakama,O Galeboe	
2400			R357508	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2399	Sat 13/05/23 10:15	Sat 13/05/23 10:30	O Chakama,O Galeboe	
2401			R357508	Confirm Correct Protection Settings	0.5 hrs	2400	Sat 13/05/23 10:30	Sat 13/05/23 11:00	O Chakama,O Galeboe	
2402			R357508	Seal For Moisture And Dust.	1 hr	2401	Sat 13/05/23 11:00	Sat 13/05/23 12:00	O Chakama,O Galeboe	
2403			R357508	Clear Permit	0.25 hrs	2402	Sat 13/05/23 12:00	Sat 13/05/23 13:15	O Chakama,O Galeboe	
2404		53A2K-19A02	R357509	BASHUT-0216 - # 2 BOILER # 8 BED SAND REMOVAL SCREW Electrical Services - Carry out n	30 hrs		Wed 10/05/23 15:15	Sat 13/05/23 15:15		
2405			R357509	Make Out Permit	0.25 hrs	2393SS	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Operations	
2406			R357509	Accept Permit	0.25 hrs	2405	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2407			R357509	Carry Out Electrical Isolation	0.25 hrs	2406	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2408			R357509	Check Loose Connections In The Panel	0.5 hrs	2407	Wed 10/05/23 16:00	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2409			R357509	Check Contactor Contacts	0.5 hrs	2408	Wed 10/05/23 16:30	Wed 10/05/23 17:00	O Galeboe,O Chakama	
2410			R357509	Service Field Stop/Start	2.25 hrs	2409	Wed 10/05/23 17:00	Thu 11/05/23 08:15	O Galeboe,O Chakama	
2411			R357509	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2410	Thu 11/05/23 08:15	Sat 13/05/23 13:15	O Galeboe,O Chakama	
2412			R357509	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2411	Sat 13/05/23 13:15	Sat 13/05/23 13:30	O Galeboe,O Chakama	
2413			R357509	Confirm Correct Protection Settings	0.5 hrs	2412	Sat 13/05/23 13:30	Sat 13/05/23 14:00	O Galeboe,O Chakama	
2414			R357509	Seal For Moisture And Dust.	1 hr	2413	Sat 13/05/23 14:00	Sat 13/05/23 15:00	O Galeboe,O Chakama	
2415			R357509	Clear Permit	0.25 hrs	2414	Sat 13/05/23 15:00	Sat 13/05/23 15:15	O Galeboe,O Chakama	
2416		53A2K-20A02	R357510	BASHUT-0217 - # 2 BOILER # 9 BED SAND REMOVAL SCREW Electrical Services - Carry out n	28 hrs		Wed 10/05/23 15:30	Sat 13/05/23 13:30		
2417			R357510	Make Out Permit	0.25 hrs	2405	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Operations	
2418			R357510	Accept Permit	0.25 hrs	2417	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Chakama,O Galeboe	
2419			R357510	Carry Out Electrical Isolation	0.25 hrs	2418	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Chakama,O Galeboe	
2420			R357510	Check Loose Connections In The Panel	0.5 hrs	2419	Wed 10/05/23 16:15	Wed 10/05/23 16:45	O Chakama,O Galeboe	
2421			R357510	Check Contactor Contacts	0.5 hrs	2420	Wed 10/05/23 16:45	Wed 10/05/23 17:15	O Chakama,O Galeboe	
2422			R357510	Service Field Stop/Start	0.25 hrs	2421	Wed 10/05/23 17:15	Wed 10/05/23 17:30	O Chakama,O Galeboe	
2423			R357510	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2422	Wed 10/05/23 17:30	Sat 13/05/23 10:30	O Chakama,O Galeboe	
2424			R357510	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2423	Sat 13/05/23 10:30	Sat 13/05/23 10:45	O Chakama,O Galeboe	
2425			R357510	Confirm Correct Protection Settings	0.5 hrs	2424	Sat 13/05/23 10:45	Sat 13/05/23 11:15	O Chakama,O Galeboe	
2426			R357510	Seal For Moisture And Dust.	1 hr	2425	Sat 13/05/23 11:15	Sat 13/05/23 13:15	O Chakama,O Galeboe	
2427			R357510	Clear Permit	0.25 hrs	2426	Sat 13/05/23 13:15	Sat 13/05/23 13:30	O Chakama,O Galeboe	
2428		53A2K-21A02	R357511	BASHUT-0218 - # 2 BOILER # 10 BED SAND REMOVAL SCREW Electrical Services - Carry out	29.75 hrs		Wed 10/05/23 15:45	Sat 13/05/23 15:30		
2429			R357511	Make Out Permit	0.25 hrs	2417	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Operations	
2430			R357511	Accept Permit	0.25 hrs	2429	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2431			R357511	Carry Out Electrical Isolation	0.25 hrs	2430	Wed 10/05/23 16:15	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2432			R357511	Check Loose Connections In The Panel	0.5 hrs	2431	Wed 10/05/23 16:30	Wed 10/05/23 17:00	O Galeboe,O Chakama	
2433			R357511	Check Contactor Contacts	2.25 hrs	2432	Wed 10/05/23 17:00	Thu 11/05/23 08:15	O Galeboe,O Chakama	
2434			R357511	Service Field Stop/Start	0.25 hrs	2433	Thu 11/05/23 08:15	Thu 11/05/23 08:30	O Galeboe,O Chakama	
2435			R357511	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2434	Thu 11/05/23 08:30	Sat 13/05/23 13:30	O Galeboe,O Chakama	
2436			R357511	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2435	Sat 13/05/23 13:30	Sat 13/05/23 13:45	O Galeboe,O Chakama	
2437			R357511	Confirm Correct Protection Settings	0.5 hrs	2436	Sat 13/05/23 13:45	Sat 13/05/23 14:15	O Galeboe,O Chakama	
2438			R357511	Seal For Moisture And Dust.	1 hr	2437	Sat 13/05/23 14:15	Sat 13/05/23 15:15	O Galeboe,O Chakama	
2439			R357511	Clear Permit	0.25 hrs	2438	Sat 13/05/23 15:15	Sat 13/05/23 15:30	O Galeboe,O Chakama	
2440		53A2BB01A02	R357512	BASHUT-0219 - # 2 BOILER THERMOCOUPLES POCKETS - Inspection	46 hrs		Sun 07/05/23 11:45	Fri 12/05/23 07:45		
2441			R357512	Make Out Permit	6.5 hrs	2100	Sun 07/05/23 11:45	Mon 08/05/23 08:15	Operations	
2442			R357512	Accept Permit	0.25 hrs	2441	Mon 08/05/23 08:15	Mon 08/05/23 08:30	K Ntatane,O Gobotswang	
2443			R357512	Inspect Pockets And Thermocouples	5 hrs	2442	Mon 08/05/23 08:30	Mon 08/05/23 14:30	K Ntatane,O Gobotswang	
2444			R357512	Remove Damaged Pockets	8 hrs	2443	Mon 08/05/23 14:30	Tue 09/05/23 11:30	K Ntatane,O Gobotswang,O Tshwene,N Masala	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2445	  		R357512	Installation With New Ones	26 hrs	2444	Tue 09/05/23 11:30	Fri 12/05/23 07:30	K Ntatane,O Gobotswang,O Tshwene,N Masala	
2446	 		R357512	Clear Permit	0.25 hrs	2445	Fri 12/05/23 07:30	Fri 12/05/23 07:45	K Ntatane,O Gobotswang	
2447	 	53A2RM02A02	R357513	BASHUT-0220 - # 2 BOILER # 1 COAL FLINGER ELECTRICAL MAINTENANCE - Carry out electr	5.75 hrs		Wed 10/05/23 13:30	Thu 11/05/23 08:15		
2448	 		R357513	Make Out Permit	0.25 hrs	2307	Wed 10/05/23 13:30	Wed 10/05/23 13:45	Operations	
2449	 		R357513	Accept Permit	0.25 hrs	2448	Wed 10/05/23 13:45	Wed 10/05/23 14:00	O Chakama,O Galeboe	
2450	 		R357513	Carry Out Electrical Isolation	0.25 hrs	2449	Wed 10/05/23 14:00	Wed 10/05/23 14:15	O Chakama,O Galeboe	
2451	  		R357513	Check Loose Connections In The Panel	0.5 hrs	2450	Wed 10/05/23 14:15	Wed 10/05/23 14:45	O Chakama,O Galeboe	
2452	  		R357513	Open Vsd& Blow Out Dust	0.25 hrs	2451	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Chakama,O Galeboe	
2453	  		R357513	Tighten Vsd Connections	0.25 hrs	2452	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Chakama,O Galeboe	
2454	  		R357513	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2453	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Chakama,O Galeboe	
2455	  		R357513	Confirm Correct Protection Settings	0.5 hrs	2454	Wed 10/05/23 15:30	Wed 10/05/23 16:00	O Chakama,O Galeboe	
2456	  		R357513	Seal For Moisture And Dust.	1 hr	2455	Wed 10/05/23 16:00	Wed 10/05/23 17:00	O Chakama,O Galeboe	
2457	  		R357513	Clear Permit	2.25 hrs	2456	Wed 10/05/23 17:00	Thu 11/05/23 08:15	O Chakama,O Galeboe	
2458	  	53A2RM03A02	R357514	BASHUT-0221 - # 2 BOILER # 2 COAL FLINGER Electrical Maintenance - Carry out electrical r	7.25 hrs		Wed 10/05/23 17:00	Thu 11/05/23 14:15		
2459	  		R357514	Make Out Permit	2.25 hrs	2456	Wed 10/05/23 17:00	Thu 11/05/23 08:15	Operations	
2460	  		R357514	Accept Permit	0.25 hrs	2459	Thu 11/05/23 08:15	Thu 11/05/23 08:30	O Galeboe,O Chakama	
2461	  		R357514	Carry Out Electrical Isolation	1.75 hrs	2460	Thu 11/05/23 08:30	Thu 11/05/23 10:15	O Galeboe,O Chakama	
2462	  		R357514	Check Loose Connections In The Panel	0.5 hrs	2461	Thu 11/05/23 10:15	Thu 11/05/23 10:45	O Galeboe,O Chakama	
2463	  		R357514	Open Vsd& Blow Out Dust	0.25 hrs	2462	Thu 11/05/23 10:45	Thu 11/05/23 11:00	O Galeboe,O Chakama	
2464	  		R357514	Tighten Vsd Connections	0.25 hrs	2463	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Galeboe,O Chakama	
2465	  		R357514	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2464	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
2466	  		R357514	Confirm Correct Protection Settings	0.5 hrs	2465	Thu 11/05/23 11:30	Thu 11/05/23 12:00	O Galeboe,O Chakama	
2467	  		R357514	Seal For Moisture And Dust.	1 hr	2466	Thu 11/05/23 12:00	Thu 11/05/23 14:00	O Galeboe,O Chakama	
2468	  		R357514	Clear Permit	0.25 hrs	2467	Thu 11/05/23 14:00	Thu 11/05/23 14:15	O Galeboe,O Chakama	
2469	  	53A2RM04A02	R357515	BASHUT-0222 - # 2 BOILER # 3 COAL FLINGER Electrical Maintenance - Carry out electrical r	3.75 hrs		Thu 11/05/23 10:45	Thu 11/05/23 15:30		
2470	  		R357515	Make Out Permit	0.25 hrs	2462	Thu 11/05/23 10:45	Thu 11/05/23 11:00	Operations	
2471	  		R357515	Accept Permit	0.25 hrs	2470	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Galeboe,O Chakama	
2472	  		R357515	Carry Out Electrical Isolation	0.25 hrs	2471	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
2473	  		R357515	Check Loose Connections In The Panel	0.5 hrs	2472	Thu 11/05/23 11:30	Thu 11/05/23 12:00	O Galeboe,O Chakama	
2474	  		R357515	Open Vsd& Blow Out Dust	0.25 hrs	2473	Thu 11/05/23 12:00	Thu 11/05/23 13:15	O Galeboe,O Chakama	
2475	  		R357515	Tighten Vsd Connections	0.25 hrs	2474	Thu 11/05/23 13:15	Thu 11/05/23 13:30	O Galeboe,O Chakama	
2476	  		R357515	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2475	Thu 11/05/23 13:30	Thu 11/05/23 13:45	O Galeboe,O Chakama	
2477	  		R357515	Confirm Correct Protection Settings	0.5 hrs	2476	Thu 11/05/23 13:45	Thu 11/05/23 14:15	O Galeboe,O Chakama	
2478	  		R357515	Seal For Moisture And Dust.	1 hr	2477	Thu 11/05/23 14:15	Thu 11/05/23 15:15	O Galeboe,O Chakama	
2479	  		R357515	Clear Permit	0.25 hrs	2478	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Galeboe,O Chakama	
2480	  	53A2RM05A02	R357516	BASHUT-0223 - # 2 BOILER # 4 COAL FLINGER Electrical Maintenance - Carry out electrical r	4.5 hrs		Thu 11/05/23 11:30	Thu 11/05/23 17:00		
2481	  		R357516	Make Out Permit	0.25 hrs	2472	Thu 11/05/23 11:30	Thu 11/05/23 11:45	Operations	
2482	  		R357516	Accept Permit	0.25 hrs	2481	Thu 11/05/23 11:45	Thu 11/05/23 12:00	O Chakama,O Galeboe	
2483	  		R357516	Carry Out Electrical Isolation	0.25 hrs	2482	Thu 11/05/23 12:00	Thu 11/05/23 13:15	O Chakama,O Galeboe	
2484	  		R357516	Check Loose Connections In The Panel	0.5 hrs	2483	Thu 11/05/23 13:15	Thu 11/05/23 13:45	O Chakama,O Galeboe	
2485	   		R357516	Open Vsd & Blow Out Dust	1 hr	2484	Thu 11/05/23 13:45	Thu 11/05/23 14:45	O Chakama,O Galeboe	
2486	  		R357516	Tighten Vsd Connections	0.25 hrs	2485	Thu 11/05/23 14:45	Thu 11/05/23 15:00	O Chakama,O Galeboe	
2487	  		R357516	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2486	Thu 11/05/23 15:00	Thu 11/05/23 15:15	O Chakama,O Galeboe	
2488	   		R357516	Confirm Correct Protection Settings	0.5 hrs	2487	Thu 11/05/23 15:15	Thu 11/05/23 15:45	O Chakama,O Galeboe	
2489	   		R357516	Seal For Moisture And Dust.	1 hr	2488	Thu 11/05/23 15:45	Thu 11/05/23 16:45	O Chakama,O Galeboe	
2490	   		R357516	Clear Permit	0.25 hrs	2489	Thu 11/05/23 16:45	Thu 11/05/23 17:00	O Galeboe,O Chakama	
2491	   	53A2K-04A02	R357517	BASHUT-0224 - # 2 BOILER # 1 COAL METERING SCREW Electrical Services - Carry out maint	28 hrs		Wed 10/05/23 13:45	Sat 13/05/23 10:45		
2492	   		R37517	Make Out Permit	0.25 hrs	2321	Wed 10/05/23 13:45	Wed 10/05/23 14:00	Operations	
2493	   		R37517	Accept Permit	0.25 hrs	2492	Wed 10/05/23 14:00	Wed 10/05/23 14:15	O Galeboe,O Chakama	
2494	  		R37517	Carry Out Electrical Isolation	0.25 hrs	2493	Wed 10/05/23 14:15	Wed 10/05/23 14:30	O Galeboe,O Chakama	
2495	  		R37517	Check Loose Connections In The Panel	0.5 hrs	2494	Wed 10/05/23 14:30	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2496	  		R37517	Check Contactor Contacts	0.5 hrs	2495	Wed 10/05/23 15:00	Wed 10/05/23 15:30	O Galeboe,O Chakama	

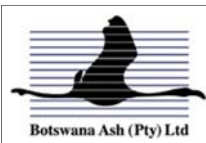


ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2497			R37517	Service Field Stop/Start	0.25 hrs	2496	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2498			R37517	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2497	Wed 10/05/23 15:45	Sat 13/05/23 08:45	O Galeboe,O Chakama	
2499			R37517	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2498	Sat 13/05/23 08:45	Sat 13/05/23 09:00	O Galeboe,O Chakama	
2500			R37517	Confirm Correct Protection Settings	0.5 hrs	2499	Sat 13/05/23 09:00	Sat 13/05/23 09:30	O Galeboe,O Chakama	
2501			R37517	Seal For Moisture And Dust.	1 hr	2500	Sat 13/05/23 09:30	Sat 13/05/23 10:30	O Galeboe,O Chakama	
2502			R37517	Clear Permit	0.25 hrs	2501	Sat 13/05/23 10:30	Sat 13/05/23 10:45	O Galeboe,O Chakama	
2503		53A2K-05A02	R357518	BASHUT-0225 - # 2 BOILER # 2 COAL METERING SCREW Electrical Services - Carry out maint	28 hrs		Wed 10/05/23 14:30	Sat 13/05/23 11:30		
2504			R357518	Make Out Permit	0.25 hrs	2494	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Operations	
2505			R357518	Accept Permit	0.25 hrs	2504	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
2506			R357518	Carry Out Electrical Isolation	0.25 hrs	2505	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Galeboe,O Chakama	
2507			R357518	Check Loose Connections In The Panel	0.5 hrs	2506	Wed 10/05/23 15:15	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2508			R357518	Check Contactor Contacts	0.5 hrs	2507	Wed 10/05/23 15:45	Wed 10/05/23 16:15	O Galeboe,O Chakama	
2509			R357518	Service Field Stop/Start	0.25 hrs	2508	Wed 10/05/23 16:15	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2510			R357518	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2509	Wed 10/05/23 16:30	Sat 13/05/23 09:30	O Galeboe,O Chakama	
2511			R357518	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2510	Sat 13/05/23 09:30	Sat 13/05/23 09:45	O Galeboe,O Chakama	
2512			R357518	Confirm Correct Protection Settings	0.5 hrs	2511	Sat 13/05/23 09:45	Sat 13/05/23 10:15	O Galeboe,O Chakama	
2513			R357518	Seal For Moisture And Dust.	1 hr	2512	Sat 13/05/23 10:15	Sat 13/05/23 11:15	O Galeboe,O Chakama	
2514			R357518	Clear Permit	0.25 hrs	2513	Sat 13/05/23 11:15	Sat 13/05/23 11:30	O Galeboe,O Chakama	
2515		53A2K-06A02	R357519	BASHUT-0226 - # 2 BOILER # 3 COAL METERING SCREW Electrical Services - Carry out maint	30 hrs		Wed 10/05/23 15:15	Sat 13/05/23 15:15		
2516			R357519	Make Out Permit	0.25 hrs	2506	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Operations	
2517			R357519	Accept Permit	0.25 hrs	2516	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
2518			R357519	Carry Out Electrical Isolation	0.25 hrs	2517	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Galeboe,O Chakama	
2519			R357519	Check Loose Connections In The Panel	0.5 hrs	2518	Wed 10/05/23 16:00	Wed 10/05/23 16:30	O Galeboe,O Chakama	
2520			R357519	Check Contactor Contacts	0.5 hrs	2519	Wed 10/05/23 16:30	Wed 10/05/23 17:00	O Galeboe,O Chakama	
2521			R357519	Service Field Stop/Start	2.25 hrs	2520	Wed 10/05/23 17:00	Thu 11/05/23 08:15	O Galeboe,O Chakama	
2522			R357519	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2521	Thu 11/05/23 08:15	Sat 13/05/23 13:15	O Galeboe,O Chakama	
2523			R357519	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2522	Sat 13/05/23 13:15	Sat 13/05/23 13:30	O Galeboe,O Chakama	
2524			R357519	Confirm Correct Protection Settings	0.5 hrs	2523	Sat 13/05/23 13:30	Sat 13/05/23 14:00	O Galeboe,O Chakama	
2525			R357519	Seal For Moisture And Dust.	1 hr	2524	Sat 13/05/23 14:00	Sat 13/05/23 15:00	O Galeboe,O Chakama	
2526			R357519	Clear Permit	0.25 hrs	2525	Sat 13/05/23 15:00	Sat 13/05/23 15:15	O Galeboe,O Chakama	
2527		53A2K-07A02	R357520	BASHUT-0227 - # 2 BOILER # 4 COAL METERING SCREW Electrical Services - Carry out maint	29.75 hrs		Thu 11/05/23 08:15	Sun 14/05/23 08:00		
2528			R357520	Make Out Permit	2 hrs	2521	Thu 11/05/23 08:15	Thu 11/05/23 10:15	Operations	
2529			R357520	Accept Permit	0.25 hrs	2528	Thu 11/05/23 10:15	Thu 11/05/23 10:30	O Galeboe,O Chakama	
2530			R357520	Carry Out Electrical Isolation	0.25 hrs	2529	Thu 11/05/23 10:30	Thu 11/05/23 10:45	O Galeboe,O Chakama	
2531			R357520	Check Loose Connections In The Panel	0.5 hrs	2530	Thu 11/05/23 10:45	Thu 11/05/23 11:15	O Galeboe,O Chakama	
2532			R357520	Check Contactor Contacts	0.5 hrs	2531	Thu 11/05/23 11:15	Thu 11/05/23 11:45	O Galeboe,O Chakama	
2533			R357520	Service Field Stop/Start	0.25 hrs	2532	Thu 11/05/23 11:45	Thu 11/05/23 12:00	O Galeboe,O Chakama	
2534			R357520	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2533	Thu 11/05/23 13:00	Sat 13/05/23 17:00	O Galeboe,O Chakama	
2535			R357520	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2534	Sat 13/05/23 17:00	Sat 13/05/23 17:15	O Galeboe,O Chakama	
2536			R357520	Confirm Correct Protection Settings	0.5 hrs	2535	Sat 13/05/23 17:15	Sat 13/05/23 17:45	O Galeboe,O Chakama	
2537			R357520	Seal For Moisture And Dust.	1 hr	2536	Sat 13/05/23 17:45	Sun 14/05/23 07:45	O Galeboe,O Chakama	
2538			R357520	Clear Permit	0.25 hrs	2537	Sun 14/05/23 07:45	Sun 14/05/23 08:00	O Galeboe,O Chakama	
2539		53A2K-08A02	R357521	BASHUT-0228 - # 2 BOILER # 1 CONSTANT SPEED SCREW Electrical Services - Carry out mai	28 hrs		Thu 11/05/23 10:30	Sun 14/05/23 08:30		
2540			R357521	Make Out Permit	0.25 hrs	2529	Thu 11/05/23 10:30	Thu 11/05/23 10:45	Operations	
2541			R357521	Accept Permit	0.25 hrs	2540	Thu 11/05/23 10:45	Thu 11/05/23 11:00	O Galeboe,O Chakama	
2542			R357521	Carry Out Electrical Isolation	0.25 hrs	2541	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Galeboe,O Chakama	
2543			R357521	Check Loose Connections In The Panel	0.5 hrs	2542	Thu 11/05/23 11:15	Thu 11/05/23 11:45	O Galeboe,O Chakama	
2544			R357521	Check Contactor Contacts	0.5 hrs	2543	Thu 11/05/23 11:45	Thu 11/05/23 13:15	O Galeboe,O Chakama	
2545			R357521	Service Field Stop/Start	0.25 hrs	2544	Thu 11/05/23 13:15	Thu 11/05/23 13:30	O Galeboe,O Chakama	
2546			R357521	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2545	Thu 11/05/23 13:30	Sat 13/05/23 17:30	O Galeboe,O Chakama	
2547			R357521	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2546	Sat 13/05/23 17:30	Sat 13/05/23 17:45	O Galeboe,O Chakama	
2548			R357521	Confirm Correct Protection Settings	0.5 hrs	2547	Sat 13/05/23 17:45	Sun 14/05/23 07:15	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2549			R357521	Seal For Moisture And Dust.	1 hr	2548	Sun 14/05/23 07:15	Sun 14/05/23 08:15	O Galeboe,O Chakama	
2550			R357521	Clear Permit	0.25 hrs	2549	Sun 14/05/23 08:15	Sun 14/05/23 08:30	O Galeboe,O Chakama	
2551		53A2K-09A02	R357522	BASHUT-0229 - # 2 BOILER # 2 CONSTANT SPEED SCREW Electrical Services - Carry out mai	28 hrs		Thu 11/05/23 11:00	Sun 14/05/23 09:00		
2552			R357522	Make Out Permit	0.25 hrs	2541	Thu 11/05/23 11:00	Thu 11/05/23 11:15	Operations	
2553			R357522	Accept Permit	0.25 hrs	2552	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
2554			R357522	Carry Out Electrical Isolation	0.25 hrs	2553	Thu 11/05/23 11:30	Thu 11/05/23 11:45	O Galeboe,O Chakama	
2555			R357522	Check Loose Connections In The Panel	0.5 hrs	2554	Thu 11/05/23 11:45	Thu 11/05/23 13:15	O Galeboe,O Chakama	
2556			R357522	Check Contactor Contacts	0.5 hrs	2555	Thu 11/05/23 13:15	Thu 11/05/23 13:45	O Galeboe,O Chakama	
2557			R357522	Service Field Stop/Start	0.25 hrs	2556	Thu 11/05/23 13:45	Thu 11/05/23 14:00	O Galeboe,O Chakama	
2558			R357522	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2557	Thu 11/05/23 14:00	Sat 13/05/23 18:00	O Galeboe,O Chakama	
2559			R357522	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2558	Sat 13/05/23 18:00	Sun 14/05/23 07:15	O Galeboe,O Chakama	
2560			R357522	Confirm Correct Protection Settings	0.5 hrs	2559	Sun 14/05/23 07:15	Sun 14/05/23 07:45	O Galeboe,O Chakama	
2561			R357522	Seal For Moisture And Dust.	1 hr	2560	Sun 14/05/23 07:45	Sun 14/05/23 08:45	O Galeboe,O Chakama	
2562			R357522	Clear Permit	0.25 hrs	2561	Sun 14/05/23 08:45	Sun 14/05/23 09:00	O Galeboe,O Chakama	
2563		53A2K-10A02	R357523	BASHUT - 02320# 2 BOILER # 3 CONSTANT SPEED SCREW Electrical Services - Carry out mai	28.25 hrs		Thu 11/05/23 13:45	Sun 14/05/23 11:00		
2564			R357523	Make Out Permit	0.25 hrs	2556	Thu 11/05/23 13:45	Thu 11/05/23 14:00	Operations	
2565			R357523	Accept Permit	0.25 hrs	2564	Thu 11/05/23 14:00	Thu 11/05/23 14:15	O Galeboe,O Chakama	
2566			R357523	Carry Out Electrical Isolation	0.25 hrs	2565	Thu 11/05/23 14:15	Thu 11/05/23 14:30	O Galeboe,O Chakama	
2567			R357523	Check Loose Connections In The Panel	0.75 hrs	2566	Thu 11/05/23 14:30	Thu 11/05/23 15:15	O Galeboe,O Chakama	
2568			R357523	Check Contactor Contacts	0.5 hrs	2567	Thu 11/05/23 15:15	Thu 11/05/23 15:45	O Galeboe,O Chakama	
2569			R357523	Service Field Stop/Start	0.25 hrs	2568	Thu 11/05/23 15:45	Thu 11/05/23 16:00	O Galeboe,O Chakama	
2570			R357523	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2569	Thu 11/05/23 16:00	Sun 14/05/23 09:00	O Galeboe,O Chakama	
2571			R357523	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2570	Sun 14/05/23 09:00	Sun 14/05/23 09:15	O Galeboe,O Chakama	
2572			R357523	Confirm Correct Protection Settings	0.5 hrs	2571	Sun 14/05/23 09:15	Sun 14/05/23 09:45	O Galeboe,O Chakama	
2573			R357523	Seal For Moisture And Dust.	1 hr	2572	Sun 14/05/23 09:45	Sun 14/05/23 10:45	O Galeboe,O Chakama	
2574			R357523	Clear Permit	0.25 hrs	2573	Sun 14/05/23 10:45	Sun 14/05/23 11:00	O Galeboe,O Chakama	
2575		53A2K-11A02	R357524	BASHUT-0231 - # 2 BOILER # 4 CONSTANT SPEED SCREW Electrical Services - Carry out mai	28.75 hrs		Thu 11/05/23 14:00	Sun 14/05/23 11:45		
2576			R357524	Make Out Permit	1 hr	2564	Thu 11/05/23 14:00	Thu 11/05/23 15:00	Operations	
2577			R357524	Accept Permit	0.25 hrs	2576	Thu 11/05/23 15:00	Thu 11/05/23 15:15	O Galeboe,O Chakama	
2578			R357524	Carry Out Electrical Isolation	0.25 hrs	2577	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Galeboe,O Chakama	
2579			R357524	Check Loose Connections In The Panel	0.5 hrs	2578	Thu 11/05/23 15:30	Thu 11/05/23 16:00	O Galeboe,O Chakama	
2580			R357524	Check Contactor Contacts	0.5 hrs	2579	Thu 11/05/23 16:00	Thu 11/05/23 16:30	O Galeboe,O Chakama	
2581			R357524	Service Field Stop/Start	0.25 hrs	2580	Thu 11/05/23 16:30	Thu 11/05/23 16:45	O Galeboe,O Chakama	
2582			R357524	Check Geared Unit Oil Leakage Into The Motor	24 hrs	2581	Thu 11/05/23 16:45	Sun 14/05/23 09:45	O Galeboe,O Chakama	
2583			R357524	Tighten Motor Connections& Gland Intergrity	0.25 hrs	2582	Sun 14/05/23 09:45	Sun 14/05/23 10:00	O Galeboe,O Chakama	
2584			R357524	Confirm Correct Protection Settings	0.5 hrs	2583	Sun 14/05/23 10:00	Sun 14/05/23 10:30	O Galeboe,O Chakama	
2585			R357524	Seal For Moisture And Dust.	1 hr	2584	Sun 14/05/23 10:30	Sun 14/05/23 11:30	O Galeboe,O Chakama	
2586			R357524	Clear Permit	0.25 hrs	2585	Sun 14/05/23 11:30	Sun 14/05/23 11:45	O Galeboe,O Chakama	
2587		53A2GA17A03	R357525	BASHUT-0232 - BLOW DOWN SUMP PUMP - Services electric motor and panel components	16 hrs		Thu 11/05/23 15:00	Sat 13/05/23 10:00		
2588			R357525	Make out permit	0.25 hrs	2576	Thu 11/05/23 15:00	Thu 11/05/23 15:15	Operations	
2589			R357525	Accept permit	0.25 hrs	2588	Thu 11/05/23 15:15	Thu 11/05/23 15:30	O Chakama,O Galeboe	
2590			R357525	Carry out electrical isolation	0.25 hrs	2589	Thu 11/05/23 15:30	Thu 11/05/23 15:45	O Chakama,O Galeboe	
2591			R357525	Check loose connections in the panel	0.5 hrs	2590	Thu 11/05/23 15:45	Thu 11/05/23 16:15	O Chakama,O Galeboe	
2592			R357525	Service panel components& Clear dust	12 hrs	2591	Thu 11/05/23 16:15	Sat 13/05/23 07:15	O Chakama,O Galeboe	
2593			R357525	Service Stop/start	0.25 hrs	2592	Sat 13/05/23 07:15	Sat 13/05/23 07:30	O Chakama,O Galeboe	
2594			R357525	Check motor fan condition	0.25 hrs	2593	Sat 13/05/23 07:30	Sat 13/05/23 07:45	O Chakama,O Galeboe	
2595			R357525	Check cable terminal leads for over heating	0.25 hrs	2594	Sat 13/05/23 07:45	Sat 13/05/23 08:00	O Chakama,O Galeboe	
2596			R357525	Tighten Motor connections& Gland intergrity	0.25 hrs	2595	Sat 13/05/23 08:00	Sat 13/05/23 08:15	O Chakama,O Galeboe	
2597			R357525	Seal for Moisture and dust.	1 hr	2596	Sat 13/05/23 08:15	Sat 13/05/23 09:15	O Chakama,O Galeboe	
2598			R357525	Confirm correct protection settings	0.5 hrs	2597	Sat 13/05/23 09:15	Sat 13/05/23 09:45	O Chakama,O Galeboe	
2599			R357525	Clear permit	0.25 hrs	2598	Sat 13/05/23 09:45	Sat 13/05/23 10:00	O Chakama,O Galeboe	
2600				COAL HANDLING PLANT	128.75 hrs	12	Sun 07/05/23 05:00	Fri 19/05/23 16:45		

 UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL FINAL EXECUTION DOCUMENT										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2601			R359556	BASHUT-0233 - Coal withdrawel conveyor structure - repair	88.5 hrs		Sun 07/05/23 07:00	Mon 15/05/23 16:30		
2602			R359556	Make out permit	18 hrs	1846	Sun 07/05/23 07:00	Mon 08/05/23 16:00	Operations	
2603			R359556	Accept permit	0.25 hrs	2602	Mon 08/05/23 16:00	Mon 08/05/23 16:15		
2604			R359556	Clean area	4 hrs	2603	Mon 08/05/23 16:15	Tue 09/05/23 09:15		
2605			R359556	Release tension on conveyor belt	2.5 hrs	2604	Tue 09/05/23 09:15	Tue 09/05/23 11:45		
2606			R359556	Repair / replace structure where required	48 hrs	2605	Tue 09/05/23 11:45	Sun 14/05/23 09:45		
2607			R359556	Paint repaired structure	13 hrs	2606	Sun 14/05/23 09:45	Mon 15/05/23 13:45		
2608			R359556	Re-tension conveyor belt	2.5 hrs	2607	Mon 15/05/23 13:45	Mon 15/05/23 16:15		
2609			R359556	Clear permit	0.25 hrs	2608	Mon 15/05/23 16:15	Mon 15/05/23 16:30		
2610			R359557	BASHUT-0234 - Replace 3 x coal vibrators	102.25 hrs		Sun 07/05/23 05:00	Wed 17/05/23 09:15		
2611			R359557	Make out permit	0.25 hrs		Sun 07/05/23 05:00	Sun 07/05/23 07:15	Operations	
2612			R359557	Accept permit	0.25 hrs	2611	Sun 07/05/23 07:15	Sun 07/05/23 07:30	FT-Util7	
2613			R359557	Clean area	12 hrs	2612	Sun 07/05/23 07:30	Sun 07/05/23 19:30	O Tshwene,N Masala	
2614			R359557	Disconnect existing vibrators	2 hrs	2613	Mon 08/05/23 07:00	Mon 08/05/23 09:00	O Tshwene,N Masala	
2615			R359557	Remove old vibrators	36 hrs	2614	Mon 08/05/23 09:00	Thu 11/05/23 16:00	O Tshwene,N Masala	
2616			R359557	Rig into position new vibrators	48 hrs	2615	Thu 11/05/23 16:00	Tue 16/05/23 14:00	O Tshwene,N Masala	
2617			R359557	Reconnect new vibrators	6 hrs	2616	Tue 16/05/23 14:00	Wed 17/05/23 09:00	O Tshwene,N Masala	
2618			R359557	Commission vibrators	0 hrs	2617	Wed 17/05/23 09:00	Wed 17/05/23 09:00	O Tshwene,N Masala	
2619			R359557	Clear permit	0.25 hrs	2618	Wed 17/05/23 09:00	Wed 17/05/23 09:15	FT-Util7	
2620			R359558	BASHUT-0235 - Replace reclaim conveyor	91.5 hrs		Tue 09/05/23 11:45	Thu 18/05/23 14:15		
2621			R359558	Make out permit	0.25 hrs	2605	Tue 09/05/23 11:45	Tue 09/05/23 12:00	Operations	
2622			R359558	Accept permit	0.25 hrs	2621	Tue 09/05/23 13:00	Tue 09/05/23 13:15		
2623			R359558	Clean area	6 hrs	2622	Tue 09/05/23 13:15	Wed 10/05/23 08:15		
2624			R359558	Remove existing conveyor	4 hrs	2623	Wed 10/05/23 08:15	Wed 10/05/23 13:15		
2625			R359558	Check and replace (if needed) - Idlers	2.5 hrs	2624,2626	Mon 15/05/23 13:45	Mon 15/05/23 16:15		
2626			R359558	Install new conveyor	6 hrs	2625,261	Wed 17/05/23 09:00	Wed 17/05/23 16:00		
2627			R359558	Hot splice conveyor	8 hrs	2626	Wed 17/05/23 16:00	Thu 18/05/23 14:00		
2628			R359558	Test run conveyor	0 hrs	2627,261	Thu 18/05/23 14:00	Thu 18/05/23 14:00	Operations	
2629			R359558	Clear permit	0.25 hrs	2628	Thu 18/05/23 14:00	Thu 18/05/23 14:15		
2630			R359559	BASHUT-0236 - Coal tripper car - repair	20.75 hrs		Wed 17/05/23 16:00	Fri 19/05/23 16:45		
2631			R359559	Make out permit	0.25 hrs	2626	Wed 17/05/23 16:00	Wed 17/05/23 16:15	Operations	
2632			R359559	Accept permit	0.25 hrs	2631	Wed 17/05/23 16:15	Wed 17/05/23 16:30		
2633			R359559	Clean area	4 hrs	2632	Wed 17/05/23 16:30	Thu 18/05/23 09:30		
2634			R359559	Repair rope guide idlers	4 hrs	2633	Thu 18/05/23 09:30	Thu 18/05/23 14:30		
2635			R359559	Refurbish tripper car	12 hrs	2634	Thu 18/05/23 14:30	Fri 19/05/23 16:30		
2636			R359559	Clear permit	0.25 hrs	2635	Fri 19/05/23 16:30	Fri 19/05/23 16:45		
2637			R359560	BASHUT-0237 - Conveyor pulleys - Lagging	35.25 hrs		Mon 15/05/23 16:15	Fri 19/05/23 10:30		
2638			R359560	Make out permit	0.25 hrs	2625	Mon 15/05/23 16:15	Mon 15/05/23 16:30	Operations	
2639			R359560	Accept permit	0.25 hrs	2638	Mon 15/05/23 16:30	Mon 15/05/23 16:45		
2640			R359560	Identify worn out pulleys	2.5 hrs	2639	Mon 15/05/23 16:45	Tue 16/05/23 08:15		
2641			R359560	Remove and re-lag worn out pulleys	8 hrs	2640	Tue 16/05/23 08:15	Tue 16/05/23 17:15		
2642			R359560	Re-lag worn out pulleys	12 hrs	2641	Tue 16/05/23 17:15	Thu 18/05/23 08:15		
2643			R359560	Replace re-lagged pulleys	12 hrs	2642	Thu 18/05/23 08:15	Fri 19/05/23 10:15		
2644			R359560	Clear permit	0.25 hrs	2643	Fri 19/05/23 10:15	Fri 19/05/23 10:30		
2645		AREA 53A		BOILER PLANT COMMON	129.25 hrs	4SS+3 da	Sat 06/05/23 10:00	Fri 19/05/23 09:15		
2646				MECHANICAL	118.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 08:45		
2647		53FV501	R363110	BASHUT-0238 - DEARATOR - Steam leak repairs & replace gaskett	12.25 hrs		Sun 07/05/23 11:00	Mon 08/05/23 14:15		
2648				Make Out Permit	0.75 hrs	1909	Sun 07/05/23 11:00	Sun 07/05/23 11:45	Operations	
2649				Accept Permit	0.5 hrs	2648	Sun 07/05/23 11:45	Sun 07/05/23 13:15	K Ntatane,O Gobotswang	
2650				Repair steam leak	6 hrs	2649	Sun 07/05/23 13:15	Mon 08/05/23 08:15	K Ntatane,O Gobotswang	
2651				Replace gaskett	4 hrs	2650	Mon 08/05/23 08:15	Mon 08/05/23 13:15	AVENG,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Litheml	
2652				Clear Permit	1 hr	2651	Mon 08/05/23 13:15	Mon 08/05/23 14:15	K Ntatane,O Gobotswang	



Botswana Ash (Pty) Ltd

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL

FINAL EXECUTION DOCUMENT

ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
2653		53B2RL01	R363112	BASHUT-0239 - TRIPPER CAR - Refurbish	15.25 hrs		Mon 08/05/23 14:15	Wed 10/05/23 08:30	
2654				Make Permit	0.75 hrs	2652	Mon 08/05/23 14:15	Mon 08/05/23 15:00	Operations
2655				Accept Permit	0.5 hrs	2654	Mon 08/05/23 15:00	Mon 08/05/23 15:30	C Lithemba,L Jabane
2656				Risk Assesment	1 hr	2655	Mon 08/05/23 15:30	Mon 08/05/23 16:30	C Lithemba,L Jabane
2657	 			Cut Bolts On Tripper	6 hrs	2656	Mon 08/05/23 16:30	Tue 09/05/23 11:30	C Lithemba,L Jabane
2658	 			Carry out inspection and repairs	5 hrs	2657	Tue 09/05/23 11:30	Tue 09/05/23 17:30	C Lithemba,L Jabane
2659	 			House Keeping	1 hr	2658	Tue 09/05/23 17:30	Wed 10/05/23 07:30	C Lithemba,L Jabane
2660	 			Clear Permit	1 hr	2659	Wed 10/05/23 07:30	Wed 10/05/23 08:30	C Lithemba,L Jabane
2661		53FV501	R363113	BASHUT-0240 - BLOWDOWN SUMP PUMP - replace base	118.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 08:45	
2662				Pre works prior	0 hrs		Sat 06/05/23 10:00	Sat 06/05/23 10:00	BM-Util1,FT-Util1
2663				Make Out Permit	0.75 hrs	2662,2065	Sat 13/05/23 07:30	Sat 13/05/23 08:15	Operations
2664				Accept Permit	0.5 hrs	2663	Sat 13/05/23 08:15	Sat 13/05/23 08:45	BM-Util1,FT-Util1
2665	 			Remove existing sump base	24 hrs	2664	Sat 13/05/23 08:45	Mon 15/05/23 13:45	BM-Util1,FT-Util1
2666	 			Replace new sump base	25 hrs	2665	Mon 15/05/23 13:45	Thu 18/05/23 07:45	BM-Util1,FT-Util1
2667				Clear Permit	1 hr	2666	Thu 18/05/23 07:45	Thu 18/05/23 08:45	BM-Util1,FT-Util1
2668				ELECTRICAL	107.5 hrs		Sun 07/05/23 07:30	Wed 17/05/23 16:00	
2669		53A2GB08B03	R357531	BASHUT-0241 - # 1 BAGHOUSE COMPRESSOR - Carry out maintenance	3.25 hrs		Sun 07/05/23 07:30	Sun 07/05/23 10:45	
2670				Make Out Permit	0.25 hrs	2009	Sun 07/05/23 07:30	Sun 07/05/23 07:45	Operations
2671				Accept Permit	0.25 hrs	2670	Sun 07/05/23 07:45	Sun 07/05/23 08:00	O Galeboe,O Chakama
2672				Carry Out Electrical Isolation	0.25 hrs	2671	Sun 07/05/23 08:00	Sun 07/05/23 08:15	O Galeboe,O Chakama
2673				Check Loose Connections In The Panel	0.5 hrs	2672	Sun 07/05/23 08:15	Sun 07/05/23 08:45	O Galeboe,O Chakama
2674				Check Contactor Contacts	0.5 hrs	2673	Sun 07/05/23 08:45	Sun 07/05/23 09:15	O Galeboe,O Chakama
2675				Clean Panel Interior	0.5 hrs	2674	Sun 07/05/23 09:15	Sun 07/05/23 09:45	O Galeboe,O Chakama
2676				Check Motor Fan Condition	0.25 hrs	2675	Sun 07/05/23 09:45	Sun 07/05/23 10:00	O Galeboe,O Chakama
2677				Check Cable Terminal Leads For Over Heating	0.25 hrs	2676	Sun 07/05/23 10:00	Sun 07/05/23 10:15	O Galeboe,O Chakama
2678				Tighten Motor Connections& Gland Intergrity	0.25 hrs	2677	Sun 07/05/23 10:15	Sun 07/05/23 10:30	O Galeboe,O Chakama
2679		Clear Permit	0.25 hrs	2678	Sun 07/05/23 10:30	Sun 07/05/23 10:45	O Galeboe,O Chakama		
2680		53A2GB11A03	R357532	BASHUT-0242 - # 2 BAGHOUSE COMPRESSOR - Carry out maintenance	3.25 hrs		Sun 07/05/23 08:15	Sun 07/05/23 11:30	
2681				Make Out Permit	0.25 hrs	2672	Sun 07/05/23 08:15	Sun 07/05/23 08:30	Operations
2682				Accept Permit	0.25 hrs	2681	Sun 07/05/23 08:30	Sun 07/05/23 08:45	O Galeboe,O Chakama
2683				Carry Out Electrical Isolation	0.25 hrs	2682	Sun 07/05/23 08:45	Sun 07/05/23 09:00	O Galeboe,O Chakama
2684				Check Loose Connections In The Panel	0.5 hrs	2683	Sun 07/05/23 09:00	Sun 07/05/23 09:30	O Galeboe,O Chakama
2685				Check Contactor Contacts	0.5 hrs	2684	Sun 07/05/23 09:30	Sun 07/05/23 10:00	O Galeboe,O Chakama
2686				Clean Panel Interior	0.5 hrs	2685	Sun 07/05/23 10:00	Sun 07/05/23 10:30	O Galeboe,O Chakama
2687				Check Motor Fan Condition	0.25 hrs	2686	Sun 07/05/23 10:30	Sun 07/05/23 10:45	O Galeboe,O Chakama
2688				Check Cable Terminal Leads For Over Heating	0.25 hrs	2687	Sun 07/05/23 10:45	Sun 07/05/23 11:00	O Galeboe,O Chakama
2689				Tighten Motor Connections& Gland Intergrity	0.25 hrs	2688	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Galeboe,O Chakama
2690		Clear Permit	0.25 hrs	2689	Sun 07/05/23 11:15	Sun 07/05/23 11:30	O Galeboe,O Chakama		
2691	 	53A2GA05A03	R363115	BASHUT-0243 - # 1 BOILER FEED PUMP MOTOR 1 - Clean,flush and drain oil& clean air vent	48 hrs		Fri 12/05/23 17:45	Wed 17/05/23 15:45	
2692				Make Out Permit	21.5 hrs	2064	Fri 12/05/23 17:45	Mon 15/05/23 08:15	Operations
2693				Accept Permit	0.25 hrs	2692	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Galeboe,O Chakama
2694				Loosen & Remove Covers	2 hrs	2693	Mon 15/05/23 08:30	Mon 15/05/23 10:30	T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane
2695				Clean Flush And Drain Oil On Both Motor& Fan	6 hrs	2694	Mon 15/05/23 10:30	Mon 15/05/23 17:30	C Lithemba,L Jabane
2696				Clean Air Vents	8 hrs	2695	Mon 15/05/23 17:30	Tue 16/05/23 15:30	O Galeboe,O Chakama
2697				Replace& Box Up Covers	6 hrs	2696	Tue 16/05/23 15:30	Wed 17/05/23 10:30	100,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane
2698		Carry Out Inspection	4 hrs	2697	Wed 17/05/23 10:30	Wed 17/05/23 15:30	Reliability		
2699				Clear Permit	0.25 hrs	2698	Wed 17/05/23 15:30	Wed 17/05/23 15:45	C Lithemba,L Jabane
2700		53A2GA06A03	R358145	BASHUT-0244 - # 2 BOILER FEED PUMP MOTOR 2 - Clean,flush and drain oil & clean air ven	26.75 hrs		Mon 15/05/23 08:15	Wed 17/05/23 16:00	
2701				Make Out Permit	0.25 hrs	2692	Mon 15/05/23 08:15	Mon 15/05/23 08:30	Operations
2702				Accept Permit	0.25 hrs	2701	Mon 15/05/23 08:30	Mon 15/05/23 08:45	O Galeboe,O Chakama
2703				Loosen& Remove Covers	4 hrs	2702	Mon 15/05/23 08:45	Mon 15/05/23 13:45	T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane
2704				Clean Flush And Drain Oil On Both Motor& Fan	6 hrs	2703	Mon 15/05/23 13:45	Tue 16/05/23 08:45	C Lithemba,L Jabane

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ID	Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
2705		R358145	Clean Air Vents	4 hrs	2704	Tue 16/05/23 08:45	Tue 16/05/23 13:45	O Galeboe,O Chakama
2706		R358145	Replace & Box Up Covers	8 hrs	2705	Tue 16/05/23 13:45	Wed 17/05/23 10:45	100,30Tcrane,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane
2707		R358145	Carry Out Inspection	4 hrs	2706	Wed 17/05/23 10:45	Wed 17/05/23 15:45	Reliability
2708		R358145	Clear Permit	0.25 hrs	2707	Wed 17/05/23 15:45	Wed 17/05/23 16:00	C Lithemba,L Jabane
2709	53A2GA07A03	R359909	BASHUT-0245 - # 3 BOILER FEED PUMP MOTOR 3 - Clean,flush and drain oil & clean air ven	24.75 hrs		Mon 15/05/23 08:45	Wed 17/05/23 14:30	
2710		R359909	Make Out Permit	0.25 hrs	2702	Mon 15/05/23 08:45	Mon 15/05/23 09:00	Operations
2711		R359909	Accept Permit	0.25 hrs	2710	Mon 15/05/23 09:00	Mon 15/05/23 09:15	O Chakama,O Galeboe
2712		R359909	Loosen& Remove Covers	2 hrs	2711	Mon 15/05/23 09:15	Mon 15/05/23 11:15	T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane
2713		R359909	Clean Flush And Drain Oil On Both Motor& Fan	4 hrs	2712	Mon 15/05/23 11:15	Mon 15/05/23 16:15	C Lithemba,L Jabane
2714		R359909	Clean Air Vents	6 hrs	2713	Mon 15/05/23 16:15	Tue 16/05/23 11:15	O Chakama,O Galeboe
2715		R359909	Replace& Box Up Covers	8 hrs	2714	Tue 16/05/23 11:15	Wed 17/05/23 09:15	T Mmatli,G moiseraela,J Mosenya,100,C Lithemba,L Jabane
2716		R359909	Carry Out Inspection	4 hrs	2715	Wed 17/05/23 09:15	Wed 17/05/23 14:15	Reliability
2717		R359909	Clear Permit	0.25 hrs	2716	Wed 17/05/23 14:15	Wed 17/05/23 14:30	C Lithemba,L Jabane
2718	53A2GA05A03	R359911	BASHUT-0246 - # 1 BOILER FEED WATER PUMP # 1 - Services electric motor and panel com	21.5 hrs		Mon 15/05/23 09:00	Wed 17/05/23 10:30	
2719		R359911	Make out permit	0.25 hrs	2710	Mon 15/05/23 09:00	Mon 15/05/23 09:15	Operations
2720		R359911	Accept permit	0.25 hrs	2719	Mon 15/05/23 09:15	Mon 15/05/23 09:30	O Chakama,O Galeboe
2721		R359911	Carry out electric isolation/Elec Clearance certificate	0.5 hrs	2720	Mon 15/05/23 09:30	Mon 15/05/23 10:00	O Chakama,O Galeboe
2722		R359911	Drain oil and open fan cover	2 hrs	2721	Mon 15/05/23 10:00	Mon 15/05/23 12:00	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala
2723		R359911	Clean Motor air vents	4 hrs	2722	Mon 15/05/23 13:00	Mon 15/05/23 17:00	O Chakama,O Galeboe
2724		R359911	Check motor fans condition	0.25 hrs	2723	Mon 15/05/23 17:00	Mon 15/05/23 17:15	O Chakama,O Galeboe
2725		R359911	Check cable terminal leads for over heating	0.25 hrs	2724	Mon 15/05/23 17:15	Mon 15/05/23 17:30	O Chakama,O Galeboe
2726		R359911	Tighten Motor connections& Gland intergrity	0.25 hrs	2725	Mon 15/05/23 17:30	Mon 15/05/23 17:45	O Chakama,O Galeboe
2727		R359911	Service main pump lube oil pump drive circuit	8 hrs	2726	Mon 15/05/23 17:45	Tue 16/05/23 15:45	O Chakama,O Galeboe
2728		R359911	Close Fan cover and fill oil	4 hrs	2727	Tue 16/05/23 15:45	Wed 17/05/23 08:45	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala
2729		R359911	Seal for Moisture and dust.	1 hr	2728	Wed 17/05/23 08:45	Wed 17/05/23 09:45	O Chakama,O Galeboe
2730		R359911	Confirm correct protection settings for Lube Oil pump	0.5 hrs	2729	Wed 17/05/23 09:45	Wed 17/05/23 10:15	O Chakama,O Galeboe
2731		R359911	Clear permit	0.25 hrs	2730	Wed 17/05/23 10:15	Wed 17/05/23 10:30	O Chakama,O Galeboe
2732	53A2GA06A03	R359912	BASHUT-0247 - # 2 BOILER FEED WATER PUMP # 2 - Services electric motor and panel com	23 hrs		Mon 15/05/23 09:15	Wed 17/05/23 13:15	
2733		R359912	Make out permit	0.25 hrs	2719	Mon 15/05/23 09:15	Mon 15/05/23 09:30	Operations
2734		R359912	Accept permit	0.25 hrs	2733	Mon 15/05/23 09:30	Mon 15/05/23 09:45	O Chakama,O Galeboe
2735		R359912	Carry out electric isolation/Elec Clearance certificate	0.5 hrs	2734	Mon 15/05/23 09:45	Mon 15/05/23 10:15	O Chakama,O Galeboe
2736		R359912	Drain oil and open fan cover	2 hrs	2735	Mon 15/05/23 10:15	Mon 15/05/23 13:15	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala
2737		R359912	Clean Motor air vents	4 hrs	2736	Mon 15/05/23 13:15	Mon 15/05/23 17:15	O Chakama,O Galeboe
2738		R359912	Check motor fans condition	0.25 hrs	2737	Mon 15/05/23 17:15	Mon 15/05/23 17:30	O Chakama,O Galeboe
2739		R359912	Check cable terminal leads for over heating	1.75 hrs	2738	Mon 15/05/23 17:30	Tue 16/05/23 08:15	O Chakama,O Galeboe
2740		R359912	Tighten Motor connections& Gland intergrity	0.25 hrs	2739	Tue 16/05/23 08:15	Tue 16/05/23 08:30	O Chakama,O Galeboe
2741		R359912	Service main pump lube oil pump drive circuit	8 hrs	2740	Tue 16/05/23 08:30	Tue 16/05/23 17:30	O Chakama,O Galeboe
2742		R359912	Close Fan cover and fill oil	4 hrs	2741	Tue 16/05/23 17:30	Wed 17/05/23 10:30	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala
2743		R359912	Seal for Moisture and dust.	1 hr	2742	Wed 17/05/23 10:30	Wed 17/05/23 11:30	O Chakama,O Galeboe
2744		R359912	Confirm correct protection settings for Lube Oil pump	0.5 hrs	2743	Wed 17/05/23 11:30	Wed 17/05/23 12:00	O Chakama,O Galeboe
2745		R359912	Clear permit	0.25 hrs	2744	Wed 17/05/23 12:00	Wed 17/05/23 13:15	O Chakama,O Galeboe
2746	53A2GA07A03	R359913	BASHUT-0248 - # 3 BOILER FEED WATER PUMP # 3 - Services Electric Motor and Panel com	21.5 hrs		Mon 15/05/23 09:15	Wed 17/05/23 10:45	
2747		R359913	Make out permit	0.25 hrs	2733SS	Mon 15/05/23 09:15	Mon 15/05/23 09:30	Operations
2748		R359913	Accept permit	0.25 hrs	2747	Mon 15/05/23 09:30	Mon 15/05/23 09:45	O Chakama,O Galeboe
2749		R359913	Carry out electric isolation/Elec Clearance certificate	0.5 hrs	2748	Mon 15/05/23 09:45	Mon 15/05/23 10:15	O Chakama,O Galeboe
2750		R359913	Drain oil and open fan cover	2 hrs	2749	Mon 15/05/23 10:15	Mon 15/05/23 13:15	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala
2751		R359913	Clean Motor air vents	4 hrs	2750	Mon 15/05/23 13:15	Mon 15/05/23 17:15	O Chakama,O Galeboe
2752		R359913	Check motor fans condition	0.25 hrs	2750,275	Mon 15/05/23 17:15	Mon 15/05/23 17:30	O Chakama,O Galeboe
2753		R359913	Check cable terminal leads for over heating	0.25 hrs	2752	Mon 15/05/23 17:30	Mon 15/05/23 17:45	O Chakama,O Galeboe
2754		R359913	Tighten Motor connections& Gland intergrity	0.25 hrs	2753	Mon 15/05/23 17:45	Mon 15/05/23 18:00	O Chakama,O Galeboe
2755		R359913	Service main pump lube oil pump drive circuit	8 hrs	2754	Mon 15/05/23 18:00	Tue 16/05/23 16:00	O Chakama,O Galeboe
2756		R359913	Close Fan cover and fill oil	4 hrs	2755	Tue 16/05/23 16:00	Wed 17/05/23 09:00	T Mmatli,G moiseraela,J Mosenya,O Tshwene,N Masala

Botswana Ash (Pty) Ltd

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL

FINAL EXECUTION DOCUMENT

ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2757			R359913	Seal for Moisture and dust.	1 hr	2756	Wed 17/05/23 09:00	Wed 17/05/23 10:00	O Chakama,O Galeboe	
2758			R359913	Confirm correct protection settings for Lube Oil pump	0.5 hrs	2757	Wed 17/05/23 10:00	Wed 17/05/23 10:30	O Chakama,O Galeboe	
2759			R359913	Clear permit	0.25 hrs	2758	Wed 17/05/23 10:30	Wed 17/05/23 10:45	O Chakama,O Galeboe	
2760				INSTRUMENTATION	90.5 hrs		Sat 06/05/23 10:00	Mon 15/05/23 10:30		
2761		53FV501	R358147	BASHUT-0249 - DEARATOR FEED PUMP FLOW CONTROL VALVE - Overhaul valves	26.75 hrs		Sun 07/05/23 10:00	Tue 09/05/23 17:45		
2762			R358147	Make Out Permit	0.25 hrs	1922	Sun 07/05/23 10:00	Sun 07/05/23 10:15	Operations	
2763			R358147	Accept Permit	0.25 hrs	2762	Sun 07/05/23 10:15	Sun 07/05/23 10:30	K Ntatane,O Gobotswang	
2764			R358147	Disconnect Instruments	4 hrs	2763	Sun 07/05/23 10:30	Sun 07/05/23 15:30	K Ntatane,O Gobotswang	
2765			R358147	Remove Valve	3 hrs	2764	Sun 07/05/23 15:30	Mon 08/05/23 07:30	AVENG,K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba	
2766			R358147	Overhaul Valve	12 hrs	2765	Mon 08/05/23 07:30	Tue 09/05/23 09:30	K Ntatane,O Gobotswang	
2767			R358147	Install Valve	3 hrs	2766	Tue 09/05/23 09:30	Tue 09/05/23 13:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jab	
2768			R358147	Stroke Check Valve	4 hrs	2767	Tue 09/05/23 13:30	Tue 09/05/23 17:30	K Ntatane,O Gobotswang	
2769			R358147	Clear Permit	0.25 hrs	2768	Tue 09/05/23 17:30	Tue 09/05/23 17:45	K Ntatane,O Gobotswang	
2770		53TI005	R358148	BASHUT-0250 - BOILER FEED WATER PUMP 1	42.75 hrs		Sat 06/05/23 10:00	Wed 10/05/23 13:45		
2771			R358148	Make out permit	0.25 hrs		Sat 06/05/23 10:00	Sat 06/05/23 10:15	Operations	
2772			R358148	Accept permit	0.25 hrs	2771	Sat 06/05/23 10:15	Sat 06/05/23 10:30	K Ntatane,O Gobotswang	
2773			R358148	Remove old instruments and box	4 hrs	2772	Sat 06/05/23 10:30	Sat 06/05/23 15:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2774			R358148	Prepare for the new instruments and box	6 hrs	2773	Sat 06/05/23 15:30	Sun 07/05/23 10:30	K Ntatane,O Gobotswang	
2775			R358148	Installation of probes	6 hrs	2774	Sun 07/05/23 10:30	Sun 07/05/23 17:30	L David,J Mothatego,K Ntatane,O Gobotswang	
2776			R358148	Mount and connect box	4 hrs	2775	Sun 07/05/23 17:30	Mon 08/05/23 10:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2777			R358148	Change configuration from old to new set up	6 hrs	2776	Mon 08/05/23 10:30	Mon 08/05/23 17:30	K Ntatane,O Gobotswang	
2778			R358148	Simulation of trip checks to DCS and Field	6 hrs	2777	Mon 08/05/23 17:30	Tue 09/05/23 13:30	K Ntatane,O Gobotswang	
2779			R358148	Reconnect new probes to the new system	4 hrs	2778	Tue 09/05/23 13:30	Tue 09/05/23 17:30	K Ntatane,O Gobotswang	
2780			R358148	check and compare readings for local, field and DCS adjust where necessary 4.0hrs	6 hrs	2779	Tue 09/05/23 17:30	Wed 10/05/23 13:30	K Ntatane,O Gobotswang	
2781			R358148	Clear permit	0.25 hrs	2780	Wed 10/05/23 13:30	Wed 10/05/23 13:45	K Ntatane,O Gobotswang	
2782		53TI010	R358149	BASHUT-0251 - BOILER FEED WATER PUMP 2	90 hrs		Sat 06/05/23 10:30	Mon 15/05/23 10:30		
2783			R358149	Make out permit	0.75 hrs	2772	Sat 06/05/23 10:30	Sat 06/05/23 11:15	Operations	
2784			R358149	Accept permit	0.5 hrs	2783	Sat 06/05/23 11:15	Sat 06/05/23 11:45	K Ntatane,O Gobotswang	
2785			R358149	Remove old instruments and box	6 hrs	2784	Sat 06/05/23 11:45	Sun 07/05/23 07:45	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2786			R358149	Prepare for the new instruments and box	6 hrs	2785	Sun 07/05/23 07:45	Sun 07/05/23 14:45	K Ntatane,O Gobotswang	
2787			R358149	Installation of probes	6 hrs	2786	Sun 07/05/23 14:45	Mon 08/05/23 09:45	L David,J Mothatego,K Ntatane,O Gobotswang	
2788			R358149	Mount and connect box	5 hrs	2787	Mon 08/05/23 09:45	Mon 08/05/23 15:45	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2789			R358149	Change configuration from old to new set up	24.75 hrs	2788	Mon 08/05/23 15:45	Thu 11/05/23 09:30	K Ntatane,O Gobotswang	
2790			R358149	Simulation of trip checks to DCS and Field	6 hrs	2789	Thu 11/05/23 09:30	Thu 11/05/23 16:30	K Ntatane,O Gobotswang	
2791			R358149	Reconnect new probes to the new system	4 hrs	2790	Thu 11/05/23 16:30	Fri 12/05/23 09:30	K Ntatane,O Gobotswang	
2792			R358149	check and compare readings for local, field and DCS adjust where necessary 4.0hrs	6 hrs	2791	Fri 12/05/23 09:30	Fri 12/05/23 16:30	K Ntatane,O Gobotswang	
2793			R358149	check and compare readings for local, field and DCS adjust where necessary 4.0hrs	24 hrs	2792	Fri 12/05/23 16:30	Mon 15/05/23 09:30	K Ntatane,O Gobotswang	
2794			R358149	Clear permit	1 hr	2793	Mon 15/05/23 09:30	Mon 15/05/23 10:30	K Ntatane,O Gobotswang	
2795		53TI015	R358150	BASHUT-0252 - BOILER FEED WATER PUMP 3	54.75 hrs		Sat 06/05/23 11:15	Thu 11/05/23 17:00		
2796			R358150	Make out permit	0.75 hrs	2783	Sat 06/05/23 11:15	Sat 06/05/23 12:00	Operations	
2797			R358150	Accept permit	0.5 hrs	2796	Sat 06/05/23 12:00	Sat 06/05/23 13:30	K Ntatane,O Gobotswang	
2798			R358150	Remove old instruments and box	6 hrs	2797	Sat 06/05/23 13:30	Sun 07/05/23 08:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2799			R358150	Prepare for the new instruments and box	6 hrs	2798	Sun 07/05/23 08:30	Sun 07/05/23 15:30	K Ntatane,O Gobotswang	
2800			R358150	Installation of probes	6 hrs	2799	Sun 07/05/23 15:30	Mon 08/05/23 10:30	L David,J Mothatego,K Ntatane,O Gobotswang	
2801			R358150	Mount and connect box	5 hrs	2800	Mon 08/05/23 10:30	Mon 08/05/23 16:30	K Keaketswe,K Ntatane,K Raphiri,O Gobotswang	
2802			R358150	Change configuration from old to new set up	6 hrs	2801	Mon 08/05/23 16:30	Tue 09/05/23 11:30	K Ntatane,O Gobotswang	
2803			R358150	Simulation of trip checks to DCS and Field	6 hrs	2802	Tue 09/05/23 11:30	Wed 10/05/23 07:30	K Ntatane,O Gobotswang	
2804			R358150	Reconnect new probes to the new system	4 hrs	2803	Wed 10/05/23 07:30	Wed 10/05/23 11:30	K Ntatane,O Gobotswang	
2805			R358150	check and compare readings for local, field and DCS adjust where necessary 4.0hrs	7.5 hrs	2804	Wed 10/05/23 11:30	Thu 11/05/23 09:00	K Ntatane,O Gobotswang	
2806			R358150	check and compare readings for local, field and DCS adjust where necessary 4.0hrs	6 hrs	2805	Thu 11/05/23 09:00	Thu 11/05/23 16:00	K Ntatane,O Gobotswang	
2807			R358150	Clear permit	1 hr	2806	Thu 11/05/23 16:00	Thu 11/05/23 17:00	K Ntatane,O Gobotswang	
2808		53B2RL01M1	R363116	BASHUT-0253 - TRIPPER CAR - Replace field control box	27.25 hrs		Tue 09/05/23 17:30	Fri 12/05/23 14:45		

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FINAL EXECUTION DOCUMENT



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2809				Make out permit	0.75 hrs	2658	Tue 09/05/23 17:30	Wed 10/05/23 07:15	Operations	
2810				Accept permit	0.5 hrs	2809	Wed 10/05/23 07:15	Wed 10/05/23 07:45	O Galeboe,O Chakama	
2811				Carry out electrical isolation	1 hr	2810	Wed 10/05/23 07:45	Wed 10/05/23 08:45	O Galeboe,O Chakama	
2812				Check loose connections in the panel	2 hrs	2811	Wed 10/05/23 08:45	Wed 10/05/23 10:45	O Galeboe,O Chakama	
2813				Service panel components& Clear dust	6 hrs	2812	Wed 10/05/23 10:45	Wed 10/05/23 17:45	O Galeboe,O Chakama	
2814				Service Motor and position switches	6 hrs	2813	Wed 10/05/23 17:45	Thu 11/05/23 13:45	O Galeboe,O Chakama	
2815				Replace Field control box	6 hrs	2814	Thu 11/05/23 13:45	Fri 12/05/23 08:45	O Galeboe,O Chakama	
2816				Seal for Moisture and dust.	4 hrs	2815	Fri 12/05/23 08:45	Fri 12/05/23 13:45	O Galeboe,O Chakama	
2817				Clear permit	1 hr	2816	Fri 12/05/23 13:45	Fri 12/05/23 14:45	O Galeboe,O Chakama	
2818				CIVILS	88.75 hrs		Wed 10/05/23 10:30	Fri 19/05/23 09:15		
2819			R363118	BASHUT-0254 - Boiler feed water 1 pump base refurbishment - Core drilling	85 hrs		Wed 10/05/23 10:30	Thu 18/05/23 16:30		
2820				Make out permit	0.75 hrs	2061,17	Wed 10/05/23 10:30	Wed 10/05/23 11:15	Operations	
2821				Accept permit	0.5 hrs	2820	Wed 10/05/23 11:15	Wed 10/05/23 11:45	M Seisa	
2822				Disconnect motor	0 hrs	2821	Wed 10/05/23 11:45	Wed 10/05/23 11:45	O Chakama,O Galeboe	
2823				Rig out motor	4 hrs	2822	Wed 10/05/23 11:45	Wed 10/05/23 16:45	J Mosenya,T Mmatli	
2824				Refurbish base	30 hrs	2823	Wed 10/05/23 16:45	Sat 13/05/23 16:45	K Keaketswe,K Raphiri,M Seisa	
2825				Start core drilling	15.75 hrs	2824	Sat 13/05/23 16:45	Mon 15/05/23 11:30	M Seisa	
2826				Install/position holding down bolts	6 hrs	2825	Mon 15/05/23 11:30	Tue 16/05/23 07:30	M Seisa	
2827				Grouting	13 hrs	2826	Tue 16/05/23 07:30	Wed 17/05/23 10:30	M Seisa	
2828				Rig in motor	4 hrs	2827	Wed 17/05/23 10:30	Wed 17/05/23 15:30	J Mosenya,T Mmatli	
2829				Connect motor	4 hrs	2828	Wed 17/05/23 15:30	Thu 18/05/23 08:30	O Chakama,O Galeboe	
2830				Carry out alignment	6 hrs	2829	Thu 18/05/23 08:30	Thu 18/05/23 15:30	Reliability	
2831				Housekeeping	0 hrs	2830	Thu 18/05/23 15:30	Thu 18/05/23 15:30	M Seisa	
2832				Clear permit	1 hr	2831	Thu 18/05/23 15:30	Thu 18/05/23 16:30	M Seisa	
2833			R363119	BASHUT-0255 - Boiler feed water 2 pump base refurbishment - Core drilling	87.75 hrs		Wed 10/05/23 11:15	Fri 19/05/23 09:00		
2834				Make out permit	0.75 hrs	2820	Wed 10/05/23 11:15	Wed 10/05/23 12:00	Operations	
2835				Accept permit	0.5 hrs	2834	Wed 10/05/23 12:00	Wed 10/05/23 13:30	M Seisa	
2836				Disconnect motor	4 hrs	2835	Wed 10/05/23 13:30	Wed 10/05/23 17:30	O Chakama,O Galeboe	
2837				Rig out motor	4 hrs	2836	Wed 10/05/23 17:30	Thu 11/05/23 10:30	J Mosenya,T Mmatli	
2838				Refurbish base	30 hrs	2837	Thu 11/05/23 10:30	Sun 14/05/23 10:30	K Keaketswe,K Raphiri,M Seisa	
2839				Start core drilling	12.5 hrs	2838	Sun 14/05/23 10:30	Mon 15/05/23 14:00	M Seisa	
2840				Install/position holding down bolts	6 hrs	2839	Mon 15/05/23 14:00	Tue 16/05/23 09:00	M Seisa	
2841				Grouting	13 hrs	2840	Tue 16/05/23 09:00	Wed 17/05/23 12:00	M Seisa	
2842				Rig in motor	6 hrs	2841	Wed 17/05/23 12:00	Thu 18/05/23 08:00	J Mosenya,T Mmatli	
2843				Connet motor	4 hrs	2842	Thu 18/05/23 08:00	Thu 18/05/23 12:00	O Chakama,O Galeboe	
2844				Carry out alignment	6 hrs	2843	Thu 18/05/23 12:00	Fri 19/05/23 08:00	Reliability	
2845				Housekeeping	0 hrs	2844	Fri 19/05/23 08:00	Fri 19/05/23 08:00	M Seisa	
2846				Clear permit	1 hr	2845	Fri 19/05/23 08:00	Fri 19/05/23 09:00	M Seisa	
2847			R363120	BASHUT-0256 - Boiler feed water 3 pump base refurbishment - Core drilling	87.25 hrs		Wed 10/05/23 12:00	Fri 19/05/23 09:15		
2848				Make out permit	0.75 hrs	2834	Wed 10/05/23 12:00	Wed 10/05/23 13:45	Operations	
2849				Accept permit	0.5 hrs	2848	Wed 10/05/23 13:45	Wed 10/05/23 14:15	M Seisa	
2850				Disconnect motor	0 hrs	2849	Wed 10/05/23 14:15	Wed 10/05/23 14:15	O Chakama,O Galeboe	
2851				Rig out motor	4 hrs	2850	Wed 10/05/23 14:15	Thu 11/05/23 07:15	J Mosenya,T Mmatli	
2852				Refurbish base	30 hrs	2851	Thu 11/05/23 07:15	Sun 14/05/23 07:15	K Keaketswe,K Raphiri,M Seisa	
2853				Start core drilling	12 hrs	2852	Sun 14/05/23 07:15	Mon 15/05/23 09:15	M Seisa	
2854				Install/position holding down bolts	10 hrs	2853	Mon 15/05/23 09:15	Tue 16/05/23 09:15	M Seisa	
2855				Grouting	13 hrs	2854	Tue 16/05/23 09:15	Wed 17/05/23 13:15	M Seisa	
2856				Rig in motor	6 hrs	2855	Wed 17/05/23 13:15	Thu 18/05/23 08:15	J Mosenya,T Mmatli	
2857				Connet motor	4 hrs	2856	Thu 18/05/23 08:15	Thu 18/05/23 13:15	O Chakama,O Galeboe	
2858				Carry out alignment	6 hrs	2857	Thu 18/05/23 13:15	Fri 19/05/23 08:15	Reliability	
2859				Housekeeping	0 hrs	2858	Fri 19/05/23 08:15	Fri 19/05/23 08:15	M Seisa	
2860				Clear permit	1 hr	2859	Fri 19/05/23 08:15	Fri 19/05/23 09:15	M Seisa	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2861		AREA 55A		WATER TREATMENT PLANT (DEMIN PLANT)	130 hrs	4SS+3 da	Sat 06/05/23 10:00	Fri 19/05/23 10:00		
2862				CLEANING	109 hrs		Sat 06/05/23 10:00	Wed 17/05/23 09:00		
2863		55A2DF01		BASHUT-0258 - HOT LIME SOFTENER (HLS) - Clean,descale	97 hrs		Sat 06/05/23 10:00	Mon 15/05/23 18:00		
2864				Erect scaffold prior	6 hrs		Sat 06/05/23 10:00	Sat 06/05/23 17:00	RSC Scaffold	
2865				Make out permit	0.75 hrs	2864	Sat 06/05/23 17:00	Sat 06/05/23 17:45	Operations	
2866				Accept permit	0.5 hrs	2865	Sat 06/05/23 17:45	Sun 07/05/23 07:15	FT-Util9	
2867				Open manholes	5 hrs	2866	Sun 07/05/23 07:15	Sun 07/05/23 13:15	FT-Util9	
2868				Accept vessel entry permit	1 hr	2867	Sun 07/05/23 13:15	Sun 07/05/23 14:15	Foreman	
2869				Clean & descale vessel	30 hrs	2868	Sun 07/05/23 14:15	Wed 10/05/23 14:15	Operations	
2870				Carry out necessary repairs	22 hrs	2869	Wed 10/05/23 14:15	Fri 12/05/23 16:15	BM-Util6,FT-Util9	
2871				Inspect vessel	4 hrs	2870	Fri 12/05/23 16:15	Sat 13/05/23 09:15	Inspector	
2872				Remove pipes from lime slurry pumps	4 hrs	2871	Sat 13/05/23 09:15	Sat 13/05/23 14:15	FT-Util9	
2873				Clean delivery line into vessel	16.75 hrs	2872	Sat 13/05/23 14:15	Mon 15/05/23 10:00	FT-Util9	
2874				Box up	5 hrs	2873	Mon 15/05/23 10:00	Mon 15/05/23 16:00	FT-Util9	
2875				Clear permit	2 hrs	2874	Mon 15/05/23 16:00	Mon 15/05/23 18:00	FT-Util9	
2876		55A2AT02		BASHUT-0259 - EFFLUENT SUMP - Clean	54 hrs	4SS+5 da	Mon 08/05/23 12:00	Sat 13/05/23 17:00		
2877				Make out permit	0.25 hrs		Mon 08/05/23 12:00	Mon 08/05/23 13:15	Operations	
2878				Accept permit	0.25 hrs	2877	Mon 08/05/23 13:15	Mon 08/05/23 13:30	Operations	
2879				Pump sump empty	10 hrs	2878	Mon 08/05/23 13:30	Tue 09/05/23 13:30	Operations	
2880				Carry out risk assessment	0.25 hrs	2879	Tue 09/05/23 13:30	Tue 09/05/23 13:45	Operations	
2881				Open sump cover	4 hrs	2880	Tue 09/05/23 13:45	Tue 09/05/23 17:45	Operations	
2882				Pump out last bit of liquid	5 hrs	2881	Tue 09/05/23 17:45	Wed 10/05/23 11:45	Operations	
2883				Wash sump with clean water	20 hrs	2882	Wed 10/05/23 11:45	Fri 12/05/23 11:45	Operations	
2884				Remove all solids from the sump	14 hrs	2883	Fri 12/05/23 11:45	Sat 13/05/23 16:45	Operations	
2885				Clear permit	0.25 hrs	2884	Sat 13/05/23 16:45	Sat 13/05/23 17:00	Operations	
2886				BASHUT-0260 - BRINE SUMP - Clean	86.75 hrs		Mon 08/05/23 13:15	Wed 17/05/23 09:00		
2887				Make out permit	0.75 hrs	2877	Mon 08/05/23 13:15	Mon 08/05/23 14:00	Operations	
2888				Accept permit	0.5 hrs	2887	Mon 08/05/23 14:00	Mon 08/05/23 14:30	Operations	
2889				Pump sump empty	34 hrs	2888	Mon 08/05/23 14:30	Fri 12/05/23 07:30	Operations	
2890				Carry out risk assessment	16.5 hrs	2889	Fri 12/05/23 07:30	Sat 13/05/23 15:00	Operations	
2891				Open sump cover	4 hrs	2890	Sat 13/05/23 15:00	Sun 14/05/23 08:00	Operations	
2892				Pump out last bit of liquid	12 hrs	2891	Sun 14/05/23 08:00	Mon 15/05/23 10:00	Operations	
2893				Wash sump with clean water	4 hrs	2892	Mon 15/05/23 10:00	Mon 15/05/23 15:00	Operations	
2894				Remove all solids from the sump	14 hrs	2893	Mon 15/05/23 15:00	Wed 17/05/23 08:00	Operations	
2895				Clear permit	1 hr	2894	Wed 17/05/23 08:00	Wed 17/05/23 09:00	Operations	
2896				MECHANICAL	123.75 hrs	4SS+3 da	Sat 06/05/23 10:00	Thu 18/05/23 14:45		
2897		55A2FN03A	R356577	BASHUT-0260 - A MIXED BED EXCHANGE UNIT- Inspection	77.75 hrs		Sun 07/05/23 14:15	Mon 15/05/23 11:00		
2898				Make out permit	0.25 hrs	2868	Sun 07/05/23 14:15	Sun 07/05/23 14:30	Operations	
2899				Accept permit	0.25 hrs	2898	Sun 07/05/23 14:30	Sun 07/05/23 14:45	FT-Util10	
2900				Open Mixed bed manhole	1 hr	2899	Sun 07/05/23 14:45	Sun 07/05/23 15:45	FT-Util10	
2901				Drain resins	4 hrs	2900	Sun 07/05/23 15:45	Mon 08/05/23 08:45	Operations,FT-Util10	
2902				Accept vessel entry permit	0.25 hrs	2901	Mon 08/05/23 08:45	Mon 08/05/23 09:00	Foreman	
2903				Drop down bottom dome	6 hrs	2902	Mon 08/05/23 09:00	Mon 08/05/23 16:00	FT-Util10,T Mmatli,J Mosenya	
2904				Remove internalls	24 hrs	2903	Mon 08/05/23 16:00	Thu 11/05/23 09:00	Operations,FT-Util10	
2905				Inspect and repair internalls	4 hrs	2904	Thu 11/05/23 09:00	Thu 11/05/23 14:00	BM-Util2,FT-Util10	
2906				Inspect and change nozzles in bed	10 hrs	2905	Thu 11/05/23 14:00	Fri 12/05/23 14:00	FT-Util10	
2907				Fit back dome	3 hrs	2906	Fri 12/05/23 14:00	Fri 12/05/23 17:00	FT-Util10,T Mmatli,J Mosenya	
2908				Refit internalls	4 hrs	2907	Fri 12/05/23 17:00	Sat 13/05/23 10:00	FT-Util10	
2909				Fill with resins	5 hrs	2908	Sat 13/05/23 10:00	Sat 13/05/23 16:00	Operations,FT-Util10	
2910				Box up vessel	14 hrs	2909	Sat 13/05/23 16:00	Mon 15/05/23 09:00	FT-Util10	
2911				Clear permit	2 hrs	2910	Mon 15/05/23 09:00	Mon 15/05/23 11:00	FT-Util10	
2912		55A2FN03B	R356578	BASHUT-0261 - B MIXED BED EXCHANGE UNIT - Inspection	53.75 hrs		Mon 08/05/23 09:00	Sat 13/05/23 13:45		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2913				Make out permit	0.25 hrs	2902	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
2914				Accept permit	0.25 hrs	2913	Mon 08/05/23 09:15	Mon 08/05/23 09:30	FT-Util7	
2915				Open Mixed bed manhole	1 hr	2914	Mon 08/05/23 09:30	Mon 08/05/23 10:30	FT-Util7	
2916				Drain resins	4 hrs	2915	Mon 08/05/23 10:30	Mon 08/05/23 15:30	Operations,FT-Util7	
2917				Accept vessel entry permit	0.25 hrs	2916	Mon 08/05/23 15:30	Mon 08/05/23 15:45	Foreman	
2918				Remove internalls	6 hrs	2917	Mon 08/05/23 15:45	Tue 09/05/23 10:45	Operations,FT-Util7	
2919				Fabrication& welding repairs	24 hrs	2918	Tue 09/05/23 10:45	Thu 11/05/23 15:45	BM-Util6	
2920				Inspect and repair glass lining	4 hrs	2919	Thu 11/05/23 15:45	Fri 12/05/23 08:45	Inspector	
2921				Inspect and repair internalls	10 hrs	2920SS	Thu 11/05/23 15:45	Fri 12/05/23 15:45	BM-Util2,FT-Util7	
2922				Inspect nozzles in bed	3 hrs	2921SS	Thu 11/05/23 15:45	Fri 12/05/23 07:45	FT-Util7	
2923				Drop bottom dome to replace nozzles (if necessary)	4 hrs	2922	Fri 12/05/23 07:45	Fri 12/05/23 11:45	FT-Util7,T Mmatli,J Mosenya	
2924				Refit internalls	5 hrs	2923	Fri 12/05/23 11:45	Fri 12/05/23 17:45	FT-Util7	
2925				Fill with resins	3 hrs	2924	Fri 12/05/23 17:45	Sat 13/05/23 09:45	Operations,FT-Util7	
2926				Box up vessel	2 hrs	2925	Sat 13/05/23 09:45	Sat 13/05/23 11:45	FT-Util7	
2927				Clear permit	1 hr	2926	Sat 13/05/23 11:45	Sat 13/05/23 13:45	FT-Util7	
2928		55A2FN03A	R356579	BASHUT-0262 - A CATION - Inspection	63.75 hrs		Sun 07/05/23 15:45	Sun 14/05/23 08:30		
2929				Make out permit	0.25 hrs	2900	Sun 07/05/23 15:45	Sun 07/05/23 16:00	Operations	
2930				Accept permit	0.25 hrs	2929	Sun 07/05/23 16:00	Sun 07/05/23 16:15	FT-Util10	
2931				Open Mixed bed manhole	1 hr	2930	Sun 07/05/23 16:15	Sun 07/05/23 17:15	FT-Util10	
2932				Drain resins	6 hrs	2931	Sun 07/05/23 17:15	Mon 08/05/23 13:15	Operations,FT-Util10	
2933				Accept vessel entry permit	1 hr	2932	Mon 08/05/23 13:15	Mon 08/05/23 14:15	Foreman	
2934				Drop down bottom dome	12 hrs	2933	Mon 08/05/23 14:15	Tue 09/05/23 16:15	FT-Util10,T Mmatli,J Mosenya	
2935				Remove internalls	6 hrs	2934	Tue 09/05/23 16:15	Wed 10/05/23 11:15	Operations,FT-Util10	
2936				Inspect and repair internalls	12 hrs	2935	Wed 10/05/23 11:15	Thu 11/05/23 14:15	BM-Util2,FT-Util10	
2937				Inspect and change nozzles in bed	4 hrs	2936	Thu 11/05/23 14:15	Fri 12/05/23 07:15	FT-Util10	
2938				Fit back dome	12 hrs	2937	Fri 12/05/23 07:15	Sat 13/05/23 09:15	FT-Util10,T Mmatli,J Mosenya	
2939				Refit internalls	5 hrs	2938	Sat 13/05/23 09:15	Sat 13/05/23 15:15	FT-Util10	
2940				Fill with resins	3 hrs	2939	Sat 13/05/23 15:15	Sun 14/05/23 07:15	Operations,FT-Util10	
2941				Box up vessel	1 hr	2940	Sun 14/05/23 07:15	Sun 14/05/23 08:15	FT-Util10	
2942				Clear permit	0.25 hrs	2941	Sun 14/05/23 08:15	Sun 14/05/23 08:30	FT-Util10	
2943		55A2FN03A	R356580	BASHUT-0264 - B CATION - Inspection	76 hrs		Sun 07/05/23 16:15	Mon 15/05/23 11:15		
2944				Make out permit	0.25 hrs	2930	Sun 07/05/23 16:15	Sun 07/05/23 16:30	Operations	
2945				Accept permit	0.25 hrs	2944	Sun 07/05/23 16:30	Sun 07/05/23 16:45	FT-Util10	
2946				Open Mixed bed manhole	1 hr	2945	Sun 07/05/23 16:45	Sun 07/05/23 17:45	FT-Util10	
2947				Drain resins	6 hrs	2946	Sun 07/05/23 17:45	Mon 08/05/23 13:45	Operations,FT-Util10	
2948				Accept vessel entry permit	1 hr	2947	Mon 08/05/23 13:45	Mon 08/05/23 14:45	Foreman	
2949				Drop down bottom dome	12 hrs	2948	Mon 08/05/23 14:45	Tue 09/05/23 16:45	FT-Util10,T Mmatli,J Mosenya	
2950				Remove internalls	6 hrs	2949	Tue 09/05/23 16:45	Wed 10/05/23 11:45	Operations,FT-Util10	
2951				Inspect and repair internalls	12 hrs	2950	Wed 10/05/23 11:45	Thu 11/05/23 14:45	BM-Util2,FT-Util10	
2952				Inspect and change nozzles in bed	4 hrs	2951	Thu 11/05/23 14:45	Fri 12/05/23 07:45	FT-Util10	
2953				Fit back dome	12 hrs	2952	Fri 12/05/23 07:45	Sat 13/05/23 09:45	FT-Util10,T Mmatli,J Mosenya	
2954				Refit internalls	5 hrs	2953	Sat 13/05/23 09:45	Sat 13/05/23 15:45	FT-Util10	
2955				Fill with resins	15.25 hrs	2954	Sat 13/05/23 15:45	Mon 15/05/23 10:00	Operations,FT-Util10	
2956				Box up vessel	1 hr	2955	Mon 15/05/23 10:00	Mon 15/05/23 11:00	FT-Util10	
2957				Clear permit	0.25 hrs	2956	Mon 15/05/23 11:00	Mon 15/05/23 11:15	FT-Util10	
2958		55A2FN02A	R360206	BASHUT-0265 - # A ANION EXCHANGE UNIT - Carry out inspection	70.5 hrs		Sat 06/05/23 10:00	Sat 13/05/23 10:30		
2959				Erect scaffold prior	21 hrs	2930SF	Sat 06/05/23 10:00	Mon 08/05/23 11:00	T Mmatli,J Mosenya	
2960				Make out permit	0.75 hrs	2959,2958	Mon 08/05/23 11:00	Mon 08/05/23 11:45	Operations	
2961				Accept permit	0.5 hrs	2960	Mon 08/05/23 11:45	Mon 08/05/23 13:15	FT-Util14	
2962				Drain Resins	2.5 hrs	2961	Mon 08/05/23 13:15	Mon 08/05/23 15:45	Operations	
2963				Accept Vessel Entry permit	1 hr	2962	Mon 08/05/23 15:45	Mon 08/05/23 16:45	Foreman	
2964				Open manhole	2.5 hrs	2963	Mon 08/05/23 16:45	Tue 09/05/23 08:15	FT-Util14	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
2965				Inspect and repair internalls	6.25 hrs	2964	Tue 09/05/23 08:15	Tue 09/05/23 15:30	FT-Util14,BM-Util4	
2966				Refit internalls	5 hrs	2965	Tue 09/05/23 15:30	Wed 10/05/23 09:30	FT-Util1	
2967				Fill with resins	25 hrs	2966	Wed 10/05/23 09:30	Fri 12/05/23 15:30	FT-Util1	
2968				Box up vessel	1 hr	2967	Fri 12/05/23 15:30	Fri 12/05/23 16:30	FT-Util1	
2969				Remove scaffold	4 hrs	2968	Fri 12/05/23 16:30	Sat 13/05/23 09:30		
2970				Clear permit	1 hr	2969	Sat 13/05/23 09:30	Sat 13/05/23 10:30	FT-Util1	
2971		55A2FN02B	R360207	BASHUT-0265 - # B ANION EXCHANGE UNIT - Carry out inspection	118.25 hrs		Sat 06/05/23 10:00	Thu 18/05/23 08:15		
2972				Erect scaffold prior	21 hrs	2959SS	Sat 06/05/23 10:00	Mon 08/05/23 11:00	T Mmatli,J Mosenya	
2973				Make out permit	0.75 hrs	2972,296	Mon 08/05/23 13:15	Mon 08/05/23 14:00	Operations	
2974				Accept permit	0.5 hrs	2973	Mon 08/05/23 14:00	Mon 08/05/23 14:30	FT-Util13	
2975				Drain Resins	2.5 hrs	2974	Mon 08/05/23 14:30	Mon 08/05/23 17:00	Operations	
2976				Accept Vessel Entry permit	1 hr	2975	Mon 08/05/23 17:00	Mon 08/05/23 18:00	Foreman	
2977				Open manhole	1 hr	2976	Mon 08/05/23 18:00	Tue 09/05/23 08:00	FT-Util13	
2978				Inspect and repair internalls	3.25 hrs	2977	Tue 09/05/23 08:00	Tue 09/05/23 11:15	FT-Util13,BM-Util4	
2979				Refit internalls	5 hrs	2978	Tue 09/05/23 11:15	Tue 09/05/23 17:15	FT-Util2	
2980				Fill with resins	4 hrs	2979	Tue 09/05/23 17:15	Wed 10/05/23 10:15	FT-Util2	
2981				Box up vessel	21 hrs	2980	Wed 10/05/23 10:15	Fri 12/05/23 11:15	FT-Util2	
2982				Erect scaffold prior	4 hrs	2981	Wed 17/05/23 14:00	Wed 17/05/23 18:00		
2983				Clear permit	1.25 hrs	2982	Thu 18/05/23 07:00	Thu 18/05/23 08:15	FT-Util2	
2984		55AFN04A	R360208	BASHUT-0266 - # A SOFTENER ION EXCHANGE UNIT - Clean & carry out inspection	90 hrs		Sun 07/05/23 14:15	Tue 16/05/23 14:15		
2985				Erect scaffolding - External	0 hrs	2868	Sun 07/05/23 14:15	Sun 07/05/23 14:15	Operations	
2986				Make out permit	0.25 hrs	2868	Sun 07/05/23 14:15	Sun 07/05/23 14:30	Operations	
2987				Accept permit	0.25 hrs	2986	Sun 07/05/23 14:30	Sun 07/05/23 14:45	FT-Util11	
2988				Open manhole	4 hrs	2987,298	Sun 07/05/23 14:45	Mon 08/05/23 07:45	FT-Util11	
2989				Remove resins	4 hrs	2988	Mon 08/05/23 07:45	Mon 08/05/23 11:45	Operations	
2990				Erect scaffolding - Internal	6 hrs	2989	Mon 08/05/23 11:45	Tue 09/05/23 07:45		
2991				Repair glass lining	8 hrs	2989,299	Tue 09/05/23 08:00	Tue 09/05/23 17:00	FT-Util1	
2992				Clean internals	36 hrs	2991	Tue 09/05/23 17:00	Sat 13/05/23 12:00	Operations,FT-Util6	
2993				Inspect vessel internal	12 hrs	2992	Sat 13/05/23 12:00	Sun 14/05/23 15:00	Operations,FT-Util6	
2994				Drain & let dry	4 hrs	2993	Sun 14/05/23 15:00	Mon 15/05/23 08:00	Operations	
2995				Refill with resins	3 hrs	2994	Mon 15/05/23 08:00	Mon 15/05/23 11:00	Operations	
2996				Remove scaffolding internal	6 hrs	2995	Mon 15/05/23 11:00	Mon 15/05/23 18:00		
2997				Box up vessel	2 hrs	2996	Mon 15/05/23 18:00	Tue 16/05/23 09:00	FT-Util6	
2998				Remove scaffolding - External	4 hrs	2997	Tue 16/05/23 09:00	Tue 16/05/23 14:00		
2999				Clear permit	0.25 hrs	2998	Tue 16/05/23 14:00	Tue 16/05/23 14:15	FT-Util6	
3000		55AFN04B	R360209	BASHUT-0267 - # B SOFTENER ION EXCHANGE UNIT - Clean & carry out inspection	79.5 hrs		Sun 07/05/23 14:15	Mon 15/05/23 13:45		
3001				Make out permit	0 hrs	2986SS	Sun 07/05/23 14:15	Sun 07/05/23 14:15	Operations	
3002				Accept permit	0.25 hrs	3001	Sun 07/05/23 14:15	Sun 07/05/23 14:30	FT-Util1	
3003				Open manhole	0.25 hrs	3002	Sun 07/05/23 14:30	Sun 07/05/23 14:45	FT-Util1	
3004				Remove resins	4 hrs	3003	Sun 07/05/23 14:45	Mon 08/05/23 07:45	Operations	
3005				Erect scaffolding - Internal	4 hrs	3004	Mon 08/05/23 07:45	Mon 08/05/23 11:45		
3006				Repair glass lining	6 hrs	3005	Mon 08/05/23 11:45	Tue 09/05/23 09:45	FT-Util1	
3007				Clean internals	8 hrs	3006	Tue 09/05/23 09:45	Wed 10/05/23 07:45	Operations,FT-Util1	
3008				Inspect vessel internal	36 hrs	3007	Wed 10/05/23 07:45	Sat 13/05/23 14:45	Operations,FT-Util1	
3009				Drain & let dry	15.75 hrs	3008	Sat 13/05/23 14:45	Mon 15/05/23 09:30	Operations	
3010				Refill with resins	4 hrs	3009SS	Sat 13/05/23 14:45	Sun 14/05/23 07:45	Operations	
3011				Remove scaffolding internal	3 hrs	3010	Sun 14/05/23 07:45	Sun 14/05/23 10:45		
3012				Box up vessel	6 hrs	3011	Sun 14/05/23 10:45	Sun 14/05/23 17:45	FT-Util1	
3013				Remove scaffolding - External	2 hrs	3012	Sun 14/05/23 17:45	Mon 15/05/23 08:45		
3014				Clear permit	4 hrs	3013	Mon 15/05/23 08:45	Mon 15/05/23 13:45	FT-Util1	
3015		55A2FK01	R360210	BASHUT-0268 - ANTHRACITE FILTER - Inspection and cleaning	61.75 hrs		Sat 06/05/23 10:00	Fri 12/05/23 11:45		
3016				Back wash vessel	0 hrs	13	Sat 06/05/23 10:00	Sat 06/05/23 10:00	Operations	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3017				Make out permit	0.25 hrs	3016	Sat 06/05/23 10:00	Sat 06/05/23 10:15	Operations	
3018				Accept permit	0.25 hrs	3017	Sat 06/05/23 10:15	Sat 06/05/23 10:30	FT-Util3	
3019				Open manholes	1 hr	3018	Sat 06/05/23 10:30	Sat 06/05/23 11:30	FT-Util3	
3020				Allow to cool	24 hrs	3019	Sat 06/05/23 11:30	Sun 07/05/23 11:30	Operations	
3021				Remove anthracite	6 hrs	3020	Sun 07/05/23 11:30	Mon 08/05/23 07:30	Operations	
3022				Accept vessel entry permit	1 hr	3021	Mon 08/05/23 07:30	Mon 08/05/23 08:30	Foreman	
3023	 			Inspect nozzles	6 hrs	3022	Mon 08/05/23 08:30	Mon 08/05/23 15:30	FT-Util3	
3024				Inspect and repair vessel internal	16 hrs	3023	Mon 08/05/23 15:30	Wed 10/05/23 10:30	Inspector	
3025	 			Refit nozzles	12 hrs	3024	Wed 10/05/23 10:30	Thu 11/05/23 13:30	FT-Util3	
3026				Refill with anthracite	8 hrs	3025	Thu 11/05/23 13:30	Fri 12/05/23 10:30	Operations	
3027				Box up vessel	1 hr	3026	Fri 12/05/23 10:30	Fri 12/05/23 11:30	FT-Util3	
3028				Clear permit	0.25 hrs	3027	Fri 12/05/23 11:30	Fri 12/05/23 11:45	FT-Util3	
3029		55A2EA01	R360211	BASHUT-0269 - PLATE HEAT EXCHANGER - Clean heat exchanger/repairs	28.25 hrs		Sat 06/05/23 11:30	Tue 09/05/23 09:45		
3030				Make out permit	0.25 hrs	13,3019	Sat 06/05/23 11:30	Sat 06/05/23 11:45	Operations	
3031				Accept permit	0.25 hrs	3030	Sat 06/05/23 11:45	Sat 06/05/23 12:00	FT-Util9	
3032				Measure length of span	1 hr	3031	Sat 06/05/23 12:00	Sat 06/05/23 14:00	FT-Util9	
3033				Loosen all bolts	1 hr	3032	Sat 06/05/23 14:00	Sat 06/05/23 15:00	FT-Util9	
3034				Remove all plates in sequence	12 hrs	3033	Sat 06/05/23 15:00	Sun 07/05/23 17:00	FT-Util9	
3035				Remove old gaskets	3 hrs	3034	Sun 07/05/23 17:00	Mon 08/05/23 09:00	FT-Util9	
3036				Clean all plates with wire brush	1 hr	3035	Mon 08/05/23 09:00	Mon 08/05/23 10:00	FT-Util9	
3037				Replace gaskets	2.5 hrs	3036	Mon 08/05/23 10:00	Mon 08/05/23 13:30	FT-Util9	
3038				Install plate in right sequence	3.75 hrs	3037	Mon 08/05/23 13:30	Mon 08/05/23 17:15	FT-Util9	
3039	 			Start tightening to the correct measurement	2.5 hrs	3038	Mon 08/05/23 17:15	Tue 09/05/23 08:45	FT-Util9	
3040				Clear permit	1 hr	3039	Tue 09/05/23 08:45	Tue 09/05/23 09:45	FT-Util9	
3041		55A2FB01	R360212	BASHUT-0270 - TREATED WATER TANK - Clean & carry out repairs	83.25 hrs		Tue 09/05/23 08:45	Wed 17/05/23 12:00		
3042	 			Make out permit	0.75 hrs	13,3039	Tue 09/05/23 08:45	Tue 09/05/23 09:30	Operations	
3043				Accept permit	0.5 hrs	3042	Tue 09/05/23 09:30	Tue 09/05/23 10:00	FT-Util4	
3044	 			Open manhole	4 hrs	3043	Tue 09/05/23 10:00	Tue 09/05/23 15:00	FT-Util4	
3045				Clean internals	13 hrs	3044	Tue 09/05/23 15:00	Wed 10/05/23 18:00	FT-Util4	
3046				Erect scaffold internally	4 hrs	3045	Wed 10/05/23 18:00	Thu 11/05/23 11:00	T Mmatli,J Mosenya	
3047				Inspect tank base	4 hrs	3046	Thu 11/05/23 11:00	Thu 11/05/23 16:00	FT-Util4,BM-Util1	
3048	 			Repair if necessary	24 hrs	3047	Thu 11/05/23 16:00	Sun 14/05/23 09:00	FT-Util4	
3049	 			Inspect deflector box / Repair	24 hrs	3048	Sun 14/05/23 09:00	Tue 16/05/23 14:00	FT-Util4,BM-Util1	
3050				box up tank	8 hrs	3049	Tue 16/05/23 14:00	Wed 17/05/23 11:00	FT-Util4	
3051				Clear permit	1 hr	3050	Wed 17/05/23 11:00	Wed 17/05/23 12:00	FT-Util4	
3052		55A2FB01	R356599	BASHUT-0271 - SULPHURIC ACID TANK - Inspect	36.25 hrs		Wed 10/05/23 18:00	Sun 14/05/23 14:15		
3053				Make out permit	0.75 hrs	13,3045	Wed 10/05/23 18:00	Thu 11/05/23 07:45	Operations	
3054				Accept permit	0.5 hrs	3053	Thu 11/05/23 07:45	Thu 11/05/23 08:15	FT-Util4	
3055				Open tank	4 hrs	3054	Thu 11/05/23 08:15	Thu 11/05/23 13:15	FT-Util4	
3056				Inspect	4 hrs	3055	Thu 11/05/23 13:15	Thu 11/05/23 17:15	FT-Util4	
3057	 			Repair if necessary	24 hrs	3056	Thu 11/05/23 17:15	Sun 14/05/23 10:15	FT-Util4	
3058				Close tank	2 hrs	3057	Sun 14/05/23 10:15	Sun 14/05/23 13:15	FT-Util4	
3059				Clear permit	1 hr	3058	Sun 14/05/23 13:15	Sun 14/05/23 14:15	FT-Util4	
3060		55A2FB01	R356600	BASHUT-0272 - CAUSTIC TANK - Inspect	35.5 hrs		Thu 11/05/23 13:15	Mon 15/05/23 07:45		
3061				Make out permit	0.75 hrs	13,3055	Thu 11/05/23 13:15	Thu 11/05/23 14:00	Operations	
3062				Accept permit	0.5 hrs	3061	Thu 11/05/23 14:00	Thu 11/05/23 14:30	FT-Util4	
3063				Open tank	4 hrs	3062	Thu 11/05/23 14:30	Fri 12/05/23 07:30	FT-Util4	
3064				Inspect	4 hrs	3063	Fri 12/05/23 07:30	Fri 12/05/23 11:30	FT-Util4	
3065	 			Repair if necessary	24 hrs	3064	Fri 12/05/23 11:30	Sun 14/05/23 16:30	FT-Util4	
3066				Close tank	2 hrs	3065	Sun 14/05/23 16:30	Mon 15/05/23 07:30	FT-Util4	
3067				Clear permit	0.25 hrs	3066	Mon 15/05/23 07:30	Mon 15/05/23 07:45	FT-Util4	
3068		55A2FB01	R356601	BASHUT-0273 - DEMIN FLOOR AND EFFLUENT SUMP - Clean & carry out repairs	62.25 hrs		Thu 11/05/23 14:30	Wed 17/05/23 16:45		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3069				Make out permit	0.75 hrs	13,3062	Thu 11/05/23 14:30	Thu 11/05/23 15:15	Operations	
3070				Accept permit	0.5 hrs	3069	Thu 11/05/23 15:15	Thu 11/05/23 15:45	FT-Util4	
3071				Repair coroded areas	60 hrs	3070	Thu 11/05/23 15:45	Wed 17/05/23 15:45	FT-Util4	
3072				Clear permit	1 hr	3071	Wed 17/05/23 15:45	Wed 17/05/23 16:45	FT-Util4	
3073		55A2FB01	R356602	BASHUT-0274 - DEMIN SUPPLY PUMPS- REPAIR BASE	56.5 hrs		Thu 11/05/23 15:15	Wed 17/05/23 10:45		
3074				Make out permit	0.75 hrs	3069	Thu 11/05/23 15:15	Thu 11/05/23 16:00	Operations	
3075				Accept permit	0.5 hrs	3074	Thu 11/05/23 16:00	Thu 11/05/23 16:30	FT-Util4	
3076				Disconnect Motor	1 hr	3075	Thu 11/05/23 16:30	Thu 11/05/23 17:30	EL-Util1	
3077				Uncouple Pump	6 hrs	3076	Thu 11/05/23 17:30	Fri 12/05/23 13:30	FT-Util4	
3078				Rig out pump and motor	6 hrs	3077	Fri 12/05/23 13:30	Sat 13/05/23 08:30	T Mmatli	
3079				Remove existing base	8 hrs	3078	Sat 13/05/23 08:30	Sat 13/05/23 17:30	T Mmatli	
3080				Repair / Replace base	14.25 hrs	3079	Sat 13/05/23 17:30	Mon 15/05/23 10:45	FT-Util4	
3081				Install pump and motor	13 hrs	3080	Mon 15/05/23 10:45	Tue 16/05/23 14:45	FT-Util4	
3082				Connect motor	6 hrs	3081	Tue 16/05/23 14:45	Wed 17/05/23 09:45	EL-Util1	
3083				Clear permit	1 hr	3082	Wed 17/05/23 09:45	Wed 17/05/23 10:45	FT-Util4	
3084		55A2FB01	R356603	BASHUT-0275 - SOFTWATER & LAKE COOLING WATER LINES - Replace coroded lines	90.25 hrs		Sat 06/05/23 10:00	Mon 15/05/23 10:15		
3085				Make out permit	0.75 hrs	15	Sat 06/05/23 10:00	Sat 06/05/23 10:45	Operations	
3086				Accept permit	0.5 hrs	3085	Sat 06/05/23 10:45	Sat 06/05/23 11:15	FT-Util4	
3087				Remove old piping	28 hrs	3086	Sat 06/05/23 11:15	Tue 09/05/23 09:15	FT-Util4	
3088				Install new piping	60 hrs	3087	Tue 09/05/23 09:15	Mon 15/05/23 09:15	FT-Util4	
3089				Clear permit	1 hr	3088	Mon 15/05/23 09:15	Mon 15/05/23 10:15	FT-Util4	
3090		55A2FB01	R356604	BASHUT-0276 - SOFTENED WATER LINES - Replace damaged lines (Leaking)	123.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 14:45		
3091				Make out permit	18.25 hrs	3085SS	Sat 06/05/23 10:00	Mon 08/05/23 08:15	Operations	
3092				Accept permit	0.5 hrs	3091	Mon 08/05/23 08:15	Mon 08/05/23 08:45	FT-Util4	
3093				Remove old piping	44 hrs	3092	Mon 08/05/23 08:45	Fri 12/05/23 13:45	FT-Util4	
3094				Install new piping	60 hrs	3093	Fri 12/05/23 13:45	Thu 18/05/23 13:45	FT-Util4	
3095				Clear permit	1 hr	3094	Thu 18/05/23 13:45	Thu 18/05/23 14:45	FT-Util4	
3096		55A2FB01	R356605	BASHUT-0277 - HOT LIME SOFTENER TANK - Inspect	89 hrs		Sat 06/05/23 10:00	Mon 15/05/23 09:00		
3097				Make out permit	18.25 hrs	15	Sat 06/05/23 10:00	Mon 08/05/23 08:15	Operations	
3098				Accept permit	0.5 hrs	3097	Mon 08/05/23 08:15	Mon 08/05/23 08:45	FT-Util4	
3099				Open tank	1 hr	3098	Mon 08/05/23 08:45	Mon 08/05/23 09:45	FT-Util4	
3100				Clean and inspect	6 hrs	3099	Mon 08/05/23 09:45	Mon 08/05/23 16:45	FT-Util4	
3101				Repair if necessary	34 hrs	3100	Mon 08/05/23 16:45	Fri 12/05/23 09:45	FT-Util4	
3102				Close tank	8 hrs	3101	Fri 12/05/23 09:45	Sat 13/05/23 07:45	FT-Util4	
3103				Clear permit	21.25 hrs	3102	Sat 13/05/23 07:45	Mon 15/05/23 09:00	FT-Util4	
3104				ELECTRICAL	93.5 hrs	4SS+3 da	Sun 07/05/23 10:30	Tue 16/05/23 15:00		
3105		55A2GA05	R359895	BASHUT-0279 - DEMIN RECOVERY PUMP - Demin recovery pump electrical services	4.5 hrs		Sun 07/05/23 10:30	Sun 07/05/23 16:00		
3106			R359895	Make out permit	0.25 hrs	2763	Sun 07/05/23 10:30	Sun 07/05/23 10:45	Operations	
3107			R359895	Accept permit	0.25 hrs	3106	Sun 07/05/23 10:45	Sun 07/05/23 11:00	O Chakama,O Galeboe	
3108			R359895	Carry out electrical isolation	0.25 hrs	3107	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Chakama,O Galeboe	
3109			R359895	Check loose connections in the panel	0.5 hrs	3108	Sun 07/05/23 11:15	Sun 07/05/23 11:45	O Chakama,O Galeboe	
3110			R359895	Check Contactor contacts	0.5 hrs	3109	Sun 07/05/23 11:45	Sun 07/05/23 13:15	O Chakama,O Galeboe	
3111			R359895	Service Stop/start	0.25 hrs	3110	Sun 07/05/23 13:15	Sun 07/05/23 13:30	O Chakama,O Galeboe	
3112			R359895	Check motor fan condition	0.25 hrs	3111	Sun 07/05/23 13:30	Sun 07/05/23 13:45	O Chakama,O Galeboe	
3113			R359895	Check cable terminal leads for over heating	0.25 hrs	3112	Sun 07/05/23 13:45	Sun 07/05/23 14:00	O Chakama,O Galeboe	
3114			R359895	Tighten Motor connections& Gland intergrity	0.25 hrs	3113	Sun 07/05/23 14:00	Sun 07/05/23 14:15	O Chakama,O Galeboe	
3115			R359895	Seal for Moisture and dust.	1 hr	3114	Sun 07/05/23 14:15	Sun 07/05/23 15:15	O Chakama,O Galeboe	
3116			R359895	Confirm correct protection settings	0.5 hrs	3115	Sun 07/05/23 15:15	Sun 07/05/23 15:45	O Chakama,O Galeboe	
3117			R359895	Clear permit	0.25 hrs	3116	Sun 07/05/23 15:45	Sun 07/05/23 16:00	O Chakama,O Galeboe	
3118		55A2GA08	R359896	BASHUT-0280 - DEMIN REGENERATION PUMP - Demin regeneration pump electrical servic	4.5 hrs		Sun 07/05/23 10:45	Sun 07/05/23 16:15		
3119			R359896	Make out permit	0.25 hrs	3106	Sun 07/05/23 10:45	Sun 07/05/23 11:00	Operations	
3120			R359896	Accept permit	0.25 hrs	3119	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Chakama,O Galeboe	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3121	  		R359896	Carry out electrical isolation	0.25 hrs	3120	Sun 07/05/23 11:15	Sun 07/05/23 11:30	O Chakama,O Galeboe	
3122	 		R359896	Check loose connections in the panel	0.5 hrs	3121	Sun 07/05/23 11:30	Sun 07/05/23 12:00	O Chakama,O Galeboe	
3123	 		R359896	Check Contactor contacts	0.5 hrs	3122	Sun 07/05/23 12:00	Sun 07/05/23 13:30	O Chakama,O Galeboe	
3124	 		R359896	Service Stop/start	0.25 hrs	3123	Sun 07/05/23 13:30	Sun 07/05/23 13:45	O Chakama,O Galeboe	
3125	 		R359896	Check motor fan condition	0.25 hrs	3124	Sun 07/05/23 13:45	Sun 07/05/23 14:00	O Chakama,O Galeboe	
3126	 		R359896	Check cable terminal leads for over heating	0.25 hrs	3125	Sun 07/05/23 14:00	Sun 07/05/23 14:15	O Chakama,O Galeboe	
3127	 		R359896	Tighten Motor connections& Gland intergrity	0.25 hrs	3126	Sun 07/05/23 14:15	Sun 07/05/23 14:30	O Chakama,O Galeboe	
3128	 		R359896	Seal for Moisture and dust.	1 hr	3127	Sun 07/05/23 14:30	Sun 07/05/23 15:30	O Chakama,O Galeboe	
3129	 		R359896	Confirm correct protection settings	0.5 hrs	3128	Sun 07/05/23 15:30	Sun 07/05/23 16:00	O Chakama,O Galeboe	
3130	 		R359896	Clear permit	0.25 hrs	3129	Sun 07/05/23 16:00	Sun 07/05/23 16:15	O Chakama,O Galeboe	
3131	 	55A2RH01	R359897	BASHUT-0281 - DRY LIME FEEDER - Dry lime feeder electrical services	4.5 hrs		Sun 07/05/23 11:00	Sun 07/05/23 16:30		
3132	 		R359897	Make out permit	0.25 hrs	3119	Sun 07/05/23 11:00	Sun 07/05/23 11:15	O Chakama,O Galeboe	
3133	 		R359897	Accept permit	0.25 hrs	3132	Sun 07/05/23 11:15	Sun 07/05/23 11:30	O Galeboe,O Chakama	
3134	 		R359897	Carry out electrical isolation	0.25 hrs	3133	Sun 07/05/23 11:30	Sun 07/05/23 11:45	O Galeboe,O Chakama	
3135	 		R359897	Check loose connections in the panel	0.5 hrs	3134	Sun 07/05/23 11:45	Sun 07/05/23 13:15	O Galeboe,O Chakama	
3136	 		R359897	Check Contactor contacts	0.5 hrs	3135	Sun 07/05/23 13:15	Sun 07/05/23 13:45	O Galeboe,O Chakama	
3137	 		R359897	Service Stop/start	0.25 hrs	3136	Sun 07/05/23 13:45	Sun 07/05/23 14:00	O Galeboe,O Chakama	
3138	 		R359897	Check motor fan condition	0.25 hrs	3137	Sun 07/05/23 14:00	Sun 07/05/23 14:15	O Galeboe,O Chakama	
3139	 		R359897	Check cable terminal leads for over heating	0.25 hrs	3138	Sun 07/05/23 14:15	Sun 07/05/23 14:30	O Galeboe,O Chakama	
3140	 		R359897	Tighten Motor connections& Gland intergrity	0.25 hrs	3139	Sun 07/05/23 14:30	Sun 07/05/23 14:45	O Galeboe,O Chakama	
3141	 		R359897	Seal for Moisture and dust.	1 hr	3140	Sun 07/05/23 14:45	Sun 07/05/23 15:45	O Galeboe,O Chakama	
3142	 		R359897	Confirm correct protection settings	0.5 hrs	3141	Sun 07/05/23 15:45	Sun 07/05/23 16:15	O Galeboe,O Chakama	
3143	 		R359897	Clear permit	0.25 hrs	3142	Sun 07/05/23 16:15	Sun 07/05/23 16:30		
3144	 	55A2GK01	R359899	BASHUT-0282 - LIME SLURRY AGITATOR - Lime Slurry Agitator electrical services	4.5 hrs		Sun 07/05/23 11:15	Sun 07/05/23 16:45		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3173			R359901	Carry out electrical isolation	0.25 hrs	3172	Tue 16/05/23 07:45	Tue 16/05/23 08:00	O Chakama,O Galeboe	
3174			R359901	Check loose connections in the panel	2.5 hrs	3173	Tue 16/05/23 08:00	Tue 16/05/23 10:30	O Chakama,O Galeboe	
3175			R359901	Check Contactor contacts	0.5 hrs	3174	Tue 16/05/23 10:30	Tue 16/05/23 11:00	O Chakama,O Galeboe	
3176			R359901	Service Stop/start	0.25 hrs	3175	Tue 16/05/23 11:00	Tue 16/05/23 11:15	O Chakama,O Galeboe	
3177			R359901	Check motor fan condition	0.25 hrs	3176	Tue 16/05/23 11:15	Tue 16/05/23 11:30	O Chakama,O Galeboe	
3178			R359901	Check cable terminal leads for over heating	0.25 hrs	3177	Tue 16/05/23 11:30	Tue 16/05/23 11:45	O Chakama,O Galeboe	
3179			R359901	Tighten Motor connections& Gland intergrity	0.25 hrs	3178	Tue 16/05/23 11:45	Tue 16/05/23 12:00	O Chakama,O Galeboe	
3180			R359901	Seal for Moisture and dust.	1 hr	3179	Tue 16/05/23 12:00	Tue 16/05/23 14:00	O Chakama,O Galeboe	
3181			R359901	Confirm correct protection settings	0.5 hrs	3180	Tue 16/05/23 14:00	Tue 16/05/23 14:30	O Chakama,O Galeboe	
3182			R359901	Clear permit	0.25 hrs	3181	Tue 16/05/23 14:30	Tue 16/05/23 14:45	O Chakama,O Galeboe	
3183		55A2GA04A	R359904	BASHUT-0284 - EFFLUENT SUMP PUMP A - Effluent sump pump A electrical services	6.5 hrs		Tue 16/05/23 07:30	Tue 16/05/23 15:00		
3184			R359904	Make out permit	0.25 hrs	3171	Tue 16/05/23 07:30	Tue 16/05/23 07:45	Operations	
3185			R359904	Accept permit	0.25 hrs	3184	Tue 16/05/23 07:45	Tue 16/05/23 08:00	O Chakama,O Galeboe	
3186			R359904	Carry out electrical isolation	2.25 hrs	3185	Tue 16/05/23 08:00	Tue 16/05/23 10:15	O Chakama,O Galeboe	
3187			R359904	Check loose connections in the panel	0.5 hrs	3186	Tue 16/05/23 10:15	Tue 16/05/23 10:45	O Chakama,O Galeboe	
3188			R359904	Check Contactor contacts	0.5 hrs	3187	Tue 16/05/23 10:45	Tue 16/05/23 11:15	O Chakama,O Galeboe	
3189			R359904	Service Stop/start	0.25 hrs	3188	Tue 16/05/23 11:15	Tue 16/05/23 11:30	O Chakama,O Galeboe	
3190			R359904	Check motor fan condition	0.25 hrs	3189	Tue 16/05/23 11:30	Tue 16/05/23 11:45	O Chakama,O Galeboe	
3191			R359904	Check cable terminal leads for over heating	0.25 hrs	3190	Tue 16/05/23 11:45	Tue 16/05/23 12:00	O Chakama,O Galeboe	
3192			R359904	Tighten Motor connections& Gland intergrity	0.25 hrs	3191	Tue 16/05/23 13:00	Tue 16/05/23 13:15	O Chakama,O Galeboe	
3193			R359904	Seal for Moisture and dust.	1 hr	3192	Tue 16/05/23 13:15	Tue 16/05/23 14:15	O Chakama,O Galeboe	
3194			R359904	Confirm correct protection settings	0.5 hrs	3193	Tue 16/05/23 14:15	Tue 16/05/23 14:45	O Chakama,O Galeboe	
3195			R359904	Clear permit	0.25 hrs	3194	Tue 16/05/23 14:45	Tue 16/05/23 15:00	O Chakama,O Galeboe	
3196		55A2GA04B	R359905	BASHUT-0285 - EFFLUENT SUMP PUMP B - Effluent sump pump B electrical services	4.5 hrs		Tue 16/05/23 07:45	Tue 16/05/23 13:15		
3197			R359905	Make out permit	0.25 hrs	3184	Tue 16/05/23 07:45	Tue 16/05/23 08:00	Operations	
3198			R359905	Accept permit	0.25 hrs	3197	Tue 16/05/23 08:00	Tue 16/05/23 08:15	O Chakama,O Galeboe	
3199			R359905	Carry out electrical isolation	0.25 hrs	3198	Tue 16/05/23 08:15	Tue 16/05/23 08:30	O Chakama,O Galeboe	
3200			R359905	Check loose connections in the panel	0.5 hrs	3199	Tue 16/05/23 08:30	Tue 16/05/23 09:00	O Chakama,O Galeboe	
3201			R359905	Check Contactor contacts	0.5 hrs	3200	Tue 16/05/23 09:00	Tue 16/05/23 09:30	O Chakama,O Galeboe	
3202			R359905	Service Stop/start	0.25 hrs	3201	Tue 16/05/23 09:30	Tue 16/05/23 09:45	O Chakama,O Galeboe	
3203			R359905	Check motor fan condition	0.25 hrs	3202	Tue 16/05/23 09:45	Tue 16/05/23 10:00	O Chakama,O Galeboe	
3204			R359905	Check cable terminal leads for over heating	0.25 hrs	3203	Tue 16/05/23 10:00	Tue 16/05/23 10:15	O Chakama,O Galeboe	
3205			R359905	Tighten Motor connections& Gland intergrity	0.25 hrs	3204	Tue 16/05/23 10:15	Tue 16/05/23 10:30	O Chakama,O Galeboe	
3206			R359905	Seal for Moisture and dust.	1 hr	3205	Tue 16/05/23 10:30	Tue 16/05/23 11:30	O Chakama,O Galeboe	
3207			R359905	Confirm correct protection settings	0.5 hrs	3206	Tue 16/05/23 11:30	Tue 16/05/23 12:00	O Chakama,O Galeboe	
3208			R359905	Clear permit	0.25 hrs	3207	Tue 16/05/23 12:00	Tue 16/05/23 13:15	O Chakama,O Galeboe	
3209				CIVILS	130 hrs		Sat 06/05/23 10:00	Fri 19/05/23 10:00		
3210			R359906	BASHUT-0286 - Chemical offloading area - Earth works	130 hrs		Sat 06/05/23 10:00	Fri 19/05/23 10:00		
3211			R359906	Reconstruct acid and caustic offloading bay	130 hrs	13	Sat 06/05/23 10:00	Fri 19/05/23 10:00	Contractor	
3212			R359907	BASHUT-0287 - Floor repairs	102 hrs		Sat 06/05/23 10:00	Tue 16/05/23 12:00		
3213			R359907	Repair floor	102 hrs		Sat 06/05/23 10:00	Tue 16/05/23 12:00	Contractor	
3214				INSTRUMENT AIR COMPRESSOR SYSTEM	167.5 hrs		Wed 03/05/23 07:00	Fri 19/05/23 15:30		
3215			R359561	BASHUT-0289 - COMPRESSOR HOUSING - Expansion	146 hrs		Wed 03/05/23 07:00	Wed 17/05/23 14:00		
3216			R359561	Make out permit	0.75 hrs	13	Wed 03/05/23 07:00	Wed 03/05/23 07:45	Operations	
3217			R359561	Accept permit	0.5 hrs	3216	Wed 03/05/23 07:45	Wed 03/05/23 08:15	Civils	
3218			R359561	Demolish existing building to accommodate upgrade prior	0 hrs	13SF	Wed 03/05/23 07:00	Wed 03/05/23 07:00	Civils	
3219			R359561	Civil / Brickwork upgrade to existing compressor house	36 hrs	3216,321	Wed 03/05/23 08:15	Sat 06/05/23 15:15	Civils	
3220			R359561	Upgrade electrical works on expansion	60 hrs	3219	Mon 08/05/23 08:00	Wed 17/05/23 12:00	Electrical technician	
3221			R359561	Electrical - C.O.C certification	6 hrs	3220FF	Tue 16/05/23 17:00	Wed 17/05/23 12:00	Electrical Test	
3222			R359561	Clear permit and handover building	1 hr	3221	Wed 17/05/23 12:00	Wed 17/05/23 14:00	Civils	
3223			R359562	BASHUT-0290 - IA COMPRESSOR # 2 - Replace	166.75 hrs		Wed 03/05/23 07:45	Fri 19/05/23 15:30		
3224			R359562	Make out permit	0.25 hrs	3216	Wed 03/05/23 07:45	Wed 03/05/23 08:00	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3225			R359562	Accept permit	0.25 hrs	3224	Wed 03/05/23 08:00	Wed 03/05/23 08:15	FT-Util4	
3226			R359562	Uncouple electrical components from Compressor	3 hrs	3225	Wed 03/05/23 08:15	Wed 03/05/23 11:15	FT-Util4	
3227			R359562	Loosen old compressor	26 hrs	3226	Wed 03/05/23 11:15	Sat 06/05/23 07:15	FT-Util4	
3228			R359562	Uncouple connection lines	4 hrs	3227	Sat 06/05/23 07:15	Sat 06/05/23 11:15		
3229			R359562	Remove old compressor	26 hrs	3228	Sat 06/05/23 11:15	Tue 09/05/23 07:15	FT-Util4	
3230			R359562	Clean base and install new compressor	30 hrs	3229	Tue 09/05/23 07:15	Fri 12/05/23 07:15	FT-Util4	
3231			R359562	Pipe installations (Modify to suite)	60 hrs	3230	Fri 12/05/23 07:15	Thu 18/05/23 07:15	FT-Util4	
3232			R359562	Connect electrical supply	16 hrs	3231	Thu 18/05/23 07:15	Fri 19/05/23 14:15	FT-Util4	
3233			R359562	DCS functional checks and direction runs	1 hr	3232	Fri 19/05/23 14:15	Fri 19/05/23 15:15	FT-Util4	
3234			R359562	Clear permit	0.25 hrs	3233	Fri 19/05/23 15:15	Fri 19/05/23 15:30	FT-Util4	
3235			R359563	BASHUT-0291 - IA COMPRESSOR # 3 - Replace	166.75 hrs		Wed 03/05/23 07:00	Fri 19/05/23 14:45		
3236			R359563	Make out permit	0.25 hrs		Wed 03/05/23 07:00	Wed 03/05/23 07:15	Operations	
3237			R359563	Accept permit	0.25 hrs	3236	Wed 03/05/23 07:15	Wed 03/05/23 07:30	FT-Util4	
3238			R359563	Uncouple electrical components from Compressor	3 hrs	3237	Wed 03/05/23 07:30	Wed 03/05/23 10:30	FT-Util4	
3239			R359563	Loosen old compressor	26 hrs	3238	Wed 03/05/23 10:30	Fri 05/05/23 17:30	FT-Util4	
3240			R359563	Uncouple connection lines	4 hrs	3239	Fri 05/05/23 17:30	Sat 06/05/23 10:30		
3241			R359563	Remove old compressor	26 hrs	3240	Sat 06/05/23 10:30	Mon 08/05/23 17:30	FT-Util4	
3242			R359563	Clean base and install new compressor	30 hrs	3241	Mon 08/05/23 17:30	Thu 11/05/23 17:30	FT-Util4	
3243			R359563	Pipe installations (Modify to suite)	60 hrs	3242	Thu 11/05/23 17:30	Wed 17/05/23 17:30	FT-Util4	
3244			R359563	Connect electrical supply	16 hrs	3243	Wed 17/05/23 17:30	Fri 19/05/23 13:30	FT-Util4	
3245			R359563	DCS functional checks and direction runs	1 hr	3244	Fri 19/05/23 13:30	Fri 19/05/23 14:30	FT-Util4	
3246			R359563	Clear permit	0.25 hrs	3245	Fri 19/05/23 14:30	Fri 19/05/23 14:45	FT-Util4	
3247		AREA 53C		STEAM AND CONDENSATE SYSTEM	129.25 hrs	4SS+3 da	Sat 06/05/23 10:00	Fri 19/05/23 09:15		
3248				MECHANICAL	113.25 hrs		Sat 06/05/23 10:00	Wed 17/05/23 14:15		
3249			R359765	BASHUT-0292 - Replacement of Condensate Water Lines	113.25 hrs		Sat 06/05/23 10:00	Wed 17/05/23 14:15		
3250			R359765	Scaffold prior	22 hrs	8SF,19SS	Sat 06/05/23 10:00	Mon 08/05/23 12:00	J Mosenya,T Mmatli	
3251			R359765	Make Out Permit	0.75 hrs	3250,8	Mon 08/05/23 13:00	Mon 08/05/23 13:45	Operations	
3252			R359765	Accept Permit	0.5 hrs	3251	Mon 08/05/23 13:45	Mon 08/05/23 14:15	K Keaketswe,K Raphiri	
3253			R359765	Cut out old pipe	8 hrs	3252	Mon 08/05/23 14:15	Tue 09/05/23 11:15	K Keaketswe,K Raphiri	
3254			R359765	Prep surfaces	8 hrs	3253	Tue 09/05/23 11:15	Wed 10/05/23 09:15	K Keaketswe,K Raphiri	
3255			R359765	Align & tag weld in situ	20 hrs	3254	Wed 10/05/23 09:15	Fri 12/05/23 09:15	K Keaketswe,K Raphiri	
3256			R359765	Weld up	44 hrs	3255	Fri 12/05/23 09:15	Tue 16/05/23 14:15	Dolly Lekgowe	
3257			R359765	Quality check	6 hrs	3256	Tue 16/05/23 14:15	Wed 17/05/23 09:15	K Keaketswe,K Raphiri	
3258			R359765	Remove scaffold	3 hrs	3257	Wed 17/05/23 09:15	Wed 17/05/23 13:15		
3259			R359765	Clear Permit	1 hr	3258	Wed 17/05/23 13:15	Wed 17/05/23 14:15	K Keaketswe,K Raphiri	
3260			R359766	BASHUT-0293 - Spray water valves and piping replacement to letdown station	99 hrs		Sat 06/05/23 10:00	Tue 16/05/23 09:00		
3261			R359766	Scaffold prior	23 hrs	8SF	Sat 06/05/23 10:00	Mon 08/05/23 14:00	J Mosenya,T Mmatli	
3262			R359766	Make Out Permit	0.75 hrs	3261,8	Mon 08/05/23 14:00	Mon 08/05/23 14:45	Operations	
3263			R359766	Accept Permit	0.5 hrs	3262	Mon 08/05/23 14:45	Mon 08/05/23 15:15	K Keaketswe,K Raphiri	
3264			R359766	Cut out old pipe	8 hrs	3263	Mon 08/05/23 15:15	Tue 09/05/23 13:15	K Keaketswe,K Raphiri	
3265			R359766	Prep surfaces	8 hrs	3264	Tue 09/05/23 13:15	Wed 10/05/23 10:15	K Keaketswe,K Raphiri	
3266			R359766	Align & tag weld in situ	34 hrs	3265	Wed 10/05/23 10:15	Sat 13/05/23 15:15	K Keaketswe,K Raphiri	
3267			R359766	Weld up	19.75 hrs	3266	Sat 13/05/23 15:15	Mon 15/05/23 15:00	Dolly Lekgowe	
3268			R359766	Quality check	1 hr	3267	Mon 15/05/23 15:00	Mon 15/05/23 16:00	K Keaketswe,K Raphiri	
3269			R359766	Remove scaffold	3 hrs	3268	Mon 15/05/23 16:00	Tue 16/05/23 08:00		
3270			R359766	Clear Permit	1 hr	3269	Tue 16/05/23 08:00	Tue 16/05/23 09:00	K Keaketswe,K Raphiri	
3271				INSTRUMENTATION	129.25 hrs		Sat 06/05/23 10:00	Fri 19/05/23 09:15		
3272		53C2FB06	R359767	BASHUT-0294 - DEARATOR FEED PUMP FLOW CONTROL VALVE - Overhaul valves	16.75 hrs		Sun 07/05/23 15:30	Tue 09/05/23 11:15		
3273			R359767	Make out permit	0.25 hrs	2764	Sun 07/05/23 15:30	Sun 07/05/23 15:45	Operations	
3274			R359767	Accept permit	0.25 hrs	3273	Sun 07/05/23 15:45	Sun 07/05/23 16:00	INS-Util2	
3275			R359767	Disconnect instruments	2.5 hrs	3274	Sun 07/05/23 16:00	Mon 08/05/23 07:30	INS-Util2	
3276			R359767	Remove valve	4 hrs	3275	Mon 08/05/23 07:30	Mon 08/05/23 11:30	AVENG,FT-Util8,INS-Util2,T Mmatli,J Mosenya	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3277			R359767	Overhaul valve	6 hrs	3276	Mon 08/05/23 11:30	Tue 09/05/23 07:30	INS-Util2	
3278			R359767	Install valve	2.5 hrs	3277	Tue 09/05/23 07:30	Tue 09/05/23 10:00	FT-Util8,INS-Util2,T Mmatli,J Mosenya	
3279			R359767	Stroke check valve	1 hr	3278	Tue 09/05/23 10:00	Tue 09/05/23 11:00	INS-Util2	
3280			R359767	Clear permit	0.25 hrs	3279	Tue 09/05/23 11:00	Tue 09/05/23 11:15	INS-Util2	
3281		53C6LC506	R359768	BASHUT-0295 - MEA CONDENSATE LEVEL CONTROL - Overhaul	63.25 hrs		Tue 09/05/23 11:00	Mon 15/05/23 15:15		
3282			R359768	Make Out Permit	0.25 hrs	3279	Tue 09/05/23 11:00	Tue 09/05/23 11:15	Operations	
3283			R359768	Accept Permit	0.25 hrs	3282	Tue 09/05/23 11:15	Tue 09/05/23 11:30	K Ntatane,O Gobotswang	
3284			R359768	Disconnect Valve Instruments	4 hrs	3283	Tue 09/05/23 11:30	Tue 09/05/23 16:30	K Ntatane,O Gobotswang	
3285			R359768	Remove Valve	4 hrs	3284	Tue 09/05/23 16:30	Wed 10/05/23 09:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat	
3286			R359768	Transport To Workshop	1 hr	3285	Wed 10/05/23 09:30	Wed 10/05/23 10:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3287			R359768	Overhaul Valve	30 hrs	3286	Wed 10/05/23 10:30	Sat 13/05/23 10:30	AVENG,K Ntatane,O Gobotswang	
3288			R359768	Transport To Plant	1 hr	3287	Sat 13/05/23 10:30	Sat 13/05/23 11:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3289			R359768	Install Valve	12 hrs	3288	Sat 13/05/23 11:30	Sun 14/05/23 14:30	AVENG,K Ntatane,O Gobotswang	
3290			R359768	Reconnect Valve Instruments	4 hrs	3289	Sun 14/05/23 14:30	Mon 15/05/23 07:30	AVENG,K Ntatane,O Gobotswang	
3291			R359768	Stroke Check Valve To Dcs	4 hrs	3290	Mon 15/05/23 07:30	Mon 15/05/23 11:30	K Ntatane,O Gobotswang	
3292			R359768	Carry Out Inspection	2.5 hrs	3291	Mon 15/05/23 11:30	Mon 15/05/23 15:00	Pilot Madeswi	
3293			R359768	Clear Permit	0.25 hrs	3292	Mon 15/05/23 15:00	Mon 15/05/23 15:15	K Ntatane,O Gobotswang	
3294		53C2FBR001	R356650	BSAHUT-0296 - MEA CONDENSATE TANK - Overhaul Valve 53 Psv 008	109 hrs		Sat 06/05/23 10:00	Wed 17/05/23 09:00		
3295			R356650	Erect Scaffolding (Prior)	0 hrs	8SF,3261	Sat 06/05/23 10:00	Sat 06/05/23 10:00	Teli Square Scaffolding	
3296			R356650	Make Out Permit	0.25 hrs	3282,8	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
3297			R356650	Accept Permit	0.25 hrs	3296	Tue 09/05/23 11:30	Tue 09/05/23 11:45	C Lithemba,L Jabane	
3298			R356650	Prepare To Remove Valve	4 hrs	3297,329	Tue 09/05/23 11:45	Tue 09/05/23 16:45	C Lithemba,L Jabane	
3299			R356650	Remove Valve	25 hrs	3298	Tue 09/05/23 16:45	Fri 12/05/23 10:45	C Lithemba,L Jabane	
3300			R356650	Overhaul Valve And Set To 2740 Kpa	30 hrs	3299	Fri 12/05/23 10:45	Mon 15/05/23 10:45	Direct Engineering	
3301			R356650	Install Valve	8 hrs	3300	Mon 15/05/23 10:45	Tue 16/05/23 08:45	C Lithemba,L Jabane	
3302			R356650	Box Up	6 hrs	3301	Tue 16/05/23 08:45	Tue 16/05/23 15:45	C Lithemba,L Jabane	
3303			R356650	Clear Permit	0.25 hrs	3302	Tue 16/05/23 15:45	Tue 16/05/23 16:00	C Lithemba,L Jabane	
3304			R356650	Remove Scaffolding	4 hrs	3303	Tue 16/05/23 16:00	Wed 17/05/23 09:00	Teli Square Scaffolding	
3305		53C2FBR001	R356652	BASHUT-0291 - Mp STEAM ISOLATION VALVE - Replace valve	19.75 hrs		Tue 09/05/23 11:15	Thu 11/05/23 11:00		
3306			R356652	Make Out Permit	0.25 hrs	3280	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
3307			R356652	Accept Permit	0.25 hrs	3306	Tue 09/05/23 11:30	Tue 09/05/23 11:45	C Lithemba,L Jabane	
3308			R356652	Loosen Bolts	5 hrs	3307	Tue 09/05/23 11:45	Tue 09/05/23 17:45	C Lithemba,L Jabane	
3309			R356652	Remove Valve	3 hrs	3308	Tue 09/05/23 17:45	Wed 10/05/23 09:45	T Mmatli,G moiseraela,J Mosenya,30Tcrane,C Lithemba,L Jabane	
3310			R356652	Clean Faces& Repair Gasket	4 hrs	3309	Wed 10/05/23 09:45	Wed 10/05/23 14:45	C Lithemba,L Jabane	
3311			R356652	Install Valve	3 hrs	3310	Wed 10/05/23 14:45	Wed 10/05/23 17:45	T Mmatli,G moiseraela,J Mosenya,30Tcrane,C Lithemba,L Jabane	
3312			R356652	Box Up	4 hrs	3311	Wed 10/05/23 17:45	Thu 11/05/23 10:45	C Lithemba,L Jabane	
3313			R356652	Clear Permit	0.25 hrs	3312	Thu 11/05/23 10:45	Thu 11/05/23 11:00	C Lithemba,L Jabane	
3314		53PC501	R356654	BASHUT-0298 - Ms - Hp Letdown Dx 01 - Overhaul valve	46.75 hrs		Tue 09/05/23 11:30	Sun 14/05/23 08:15		
3315			R356654	Make Out Permit	0.75 hrs	3306	Tue 09/05/23 11:30	Tue 09/05/23 13:15	Operations	
3316			R356654	Accept Permit	0.5 hrs	3315	Tue 09/05/23 13:15	Tue 09/05/23 13:45	K Ntatane,O Gobotswang	
3317			R356654	Disconnect Valve Instruments	2.5 hrs	3316	Tue 09/05/23 13:45	Tue 09/05/23 16:15	K Ntatane,O Gobotswang	
3318			R356654	Remove Valve	3 hrs	3317	Tue 09/05/23 16:15	Wed 10/05/23 08:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jabane	
3319			R356654	Transport To Workshop	1 hr	3318	Wed 10/05/23 08:15	Wed 10/05/23 09:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3320			R356654	Overhaul Valve	24 hrs	3319	Wed 10/05/23 09:15	Fri 12/05/23 14:15	App Weld(cci),K Ntatane,O Gobotswang	
3321			R356654	Transport To Plant	1 hr	3320	Fri 12/05/23 14:15	Fri 12/05/23 15:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3322			R356654	Install Valve	3 hrs	3321	Fri 12/05/23 15:15	Sat 13/05/23 07:15	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C I	
3323			R356654	Reconnect Valve Instruments	5 hrs	3322	Sat 13/05/23 07:15	Sat 13/05/23 13:15	App Weld(cci),K Ntatane,O Gobotswang	
3324			R356654	Stroke Check Valve To Dcs	4 hrs	3323	Sat 13/05/23 13:15	Sat 13/05/23 17:15	K Ntatane,O Gobotswang	
3325			R356654	Carry Out Inspection	1 hr	3324	Sat 13/05/23 17:15	Sun 14/05/23 07:15	Pilot Madeswi	
3326			R356654	Clear Permit	1 hr	3325	Sun 14/05/23 07:15	Sun 14/05/23 08:15	K Ntatane,O Gobotswang	
3327		53TC501	R356661	BASHUT-0299 - Hp - Letdown Dsp Dx01 - - Overhaul valve	47.25 hrs		Tue 09/05/23 16:15	Sun 14/05/23 13:30		
3328			R356661	Make Out Permit	0.75 hrs	3317	Tue 09/05/23 16:15	Tue 09/05/23 17:00	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
3329			R356661	Accept Permit	0.5 hrs	3328	Tue 09/05/23 17:00	Tue 09/05/23 17:30	K Ntatane,O Gobotswang
3330			R356661	Disconnect Valve Instruments	4 hrs	3329	Tue 09/05/23 17:30	Wed 10/05/23 10:30	K Ntatane,O Gobotswang
3331			R356661	Remove Valve	3 hrs	3330	Wed 10/05/23 10:30	Wed 10/05/23 14:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jab
3332			R356661	Transport To Workshop	1 hr	3331	Wed 10/05/23 14:30	Wed 10/05/23 15:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
3333			R356661	Overhaul Valve	24 hrs	3332	Wed 10/05/23 15:30	Sat 13/05/23 08:30	App Weld(cci),K Ntatane,O Gobotswang
3334			R356661	Transport To Plant	1 hr	3333	Sat 13/05/23 08:30	Sat 13/05/23 09:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
3335			R356661	Install Valve	3 hrs	3334	Sat 13/05/23 09:30	Sat 13/05/23 13:30	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C I
3336			R356661	Reconnect Valve Instruments	4 hrs	3335	Sat 13/05/23 13:30	Sat 13/05/23 17:30	App Weld(cci),K Ntatane,O Gobotswang
3337			R356661	Stroke Check Valve To Dcs	4 hrs	3336	Sat 13/05/23 17:30	Sun 14/05/23 10:30	K Ntatane,O Gobotswang
3338			R356661	Carry Out Inspection	1 hr	3337	Sun 14/05/23 10:30	Sun 14/05/23 11:30	Pilot Madeswi
3339			R356661	Clear Permit	1 hr	3338	Sun 14/05/23 11:30	Sun 14/05/23 13:30	K Ntatane,O Gobotswang
3340		53PC502	R356664	BASHUT-0300 - Hp - Mp Letdown Dx02 - - Overhaul valve	90.5 hrs		Tue 09/05/23 17:30	Thu 18/05/23 18:00	
3341			R356664	Make Out Permit	0.25 hrs	3329	Tue 09/05/23 17:30	Tue 09/05/23 17:45	Operations
3342			R356664	Accept Permit	0.25 hrs	3341	Tue 09/05/23 17:45	Tue 09/05/23 18:00	O Gobotswang,K Ntatane
3343			R356664	Disconnect Valve Instruments	6 hrs	3342	Wed 10/05/23 07:00	Wed 10/05/23 14:00	O Gobotswang,K Ntatane
3344			R356664	Remove Valve	3 hrs	3343	Wed 10/05/23 14:00	Wed 10/05/23 17:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jab
3345			R356664	Transport To Workshop	0.25 hrs	3344	Wed 10/05/23 17:00	Wed 10/05/23 17:15	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane
3346			R356664	Overhaul Valve	24.5 hrs	3345	Wed 10/05/23 17:15	Sat 13/05/23 10:45	K Ntatane,O Gobotswang,App Weld(cci)
3347			R356664	Transport To Plant	1 hr	3346	Sat 13/05/23 10:45	Sat 13/05/23 11:45	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane
3348			R356664	Install Valve	3 hrs	3347	Sat 13/05/23 11:45	Sat 13/05/23 15:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,App Weld(cci),C I
3349			R356664	Reconnect Valve Instruments	20 hrs	3348	Sat 13/05/23 15:45	Mon 15/05/23 15:45	K Ntatane,O Gobotswang,App Weld(cci)
3350			R356664	Stroke Check Valve To Dcs	16 hrs	3349	Mon 15/05/23 15:45	Wed 17/05/23 10:45	O Gobotswang,K Ntatane
3351			R356664	Carry Out Inspection	16 hrs	3350	Wed 17/05/23 10:45	Thu 18/05/23 17:45	Pilot Madeswi
3352			R356664	Clear Permit	0.25 hrs	3351	Thu 18/05/23 17:45	Thu 18/05/23 18:00	O Gobotswang,K Ntatane
3353		53TC502	R356666	BASHUT-0301 - Mp Letdown Dsp Dx02 - - Overhaul valve	82.5 hrs		Wed 10/05/23 17:00	Fri 19/05/23 08:30	
3354			R356666	Make Out Permit	0.25 hrs	3344	Wed 10/05/23 17:00	Wed 10/05/23 17:15	Operations
3355			R356666	Accept Permit	0.25 hrs	3354	Wed 10/05/23 17:15	Wed 10/05/23 17:30	K Ntatane,O Gobotswang
3356			R356666	Disconnect Valve Instruments	16 hrs	3355	Wed 10/05/23 17:30	Fri 12/05/23 13:30	K Ntatane,O Gobotswang
3357			R356666	Remove Valve	12 hrs	3356	Fri 12/05/23 13:30	Sat 13/05/23 15:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jab
3358			R356666	Transport To Workshop	1 hr	3357	Sat 13/05/23 15:30	Sat 13/05/23 16:30	T Mmatli,G moiseraela,J Mosenya,K Ntatane,O Gobotswang
3359			R356666	Overhaul Valve	24 hrs	3358	Sat 13/05/23 16:30	Tue 16/05/23 09:30	App Weld(cci),K Ntatane,O Gobotswang
3360			R356666	Transport To Plant	1 hr	3359	Tue 16/05/23 09:30	Tue 16/05/23 10:30	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya
3361			R356666	Install Valve	3 hrs	3360	Tue 16/05/23 10:30	Tue 16/05/23 14:30	T Mmatli,G moiseraela,J Mosenya,App Weld(cci),K Ntatane,O Gobotswang,C I
3362			R356666	Reconnect Valve Instruments	16 hrs	3361	Tue 16/05/23 14:30	Thu 18/05/23 09:30	App Weld(cci),K Ntatane,O Gobotswang
3363			R356666	Stroke Check Valve To Dcs	4 hrs	3362	Thu 18/05/23 09:30	Thu 18/05/23 14:30	O Gobotswang,K Ntatane
3364			R356666	Carry Out Inspection	4 hrs	3363	Thu 18/05/23 14:30	Fri 19/05/23 07:30	Pilot Madeswi
3365			R356666	Clear Permit	1 hr	3364	Fri 19/05/23 07:30	Fri 19/05/23 08:30	O Gobotswang,K Ntatane
3366		53PC503	R356671	BASHUT-0302 - Hp - Lp Letdown Dx03 - - Overhaul valve	66.75 hrs		Fri 12/05/23 13:30	Fri 19/05/23 09:15	
3367			R356671	Make Out Permit	0.25 hrs	3356	Fri 12/05/23 13:30	Fri 12/05/23 13:45	Operations
3368			R356671	Accept Permit	0.25 hrs	3367	Fri 12/05/23 13:45	Fri 12/05/23 14:00	O Gobotswang,K Ntatane
3369			R356671	Disconnect Valve Instruments	12 hrs	3368	Fri 12/05/23 14:00	Sat 13/05/23 16:00	O Gobotswang,K Ntatane
3370			R356671	Remove Valve	6 hrs	3369	Sat 13/05/23 16:00	Sun 14/05/23 11:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,C Lithemba,L Jab
3371			R356671	Transport To Workshop	8 hrs	3370	Sun 14/05/23 11:00	Mon 15/05/23 09:00	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane
3372			R356671	Overhaul Valve	24 hrs	3371	Mon 15/05/23 09:00	Wed 17/05/23 14:00	K Ntatane,O Gobotswang,App Weld(cci)
3373			R356671	Transport To Plant	1 hr	3372	Wed 17/05/23 14:00	Wed 17/05/23 15:00	O Gobotswang,T Mmatli,G moiseraela,J Mosenya,K Ntatane
3374			R356671	Install Valve	3 hrs	3373	Wed 17/05/23 15:00	Wed 17/05/23 18:00	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,App Weld(cci),C I
3375			R356671	Reconnect Valve Instruments	4 hrs	3374	Thu 18/05/23 07:00	Thu 18/05/23 11:00	K Ntatane,O Gobotswang,App Weld(cci)
3376			R356671	Stroke Check Valve To Dcs	4 hrs	3375	Thu 18/05/23 11:00	Thu 18/05/23 16:00	O Gobotswang,K Ntatane
3377			R356671	Carry Out Inspection	4 hrs	3376	Thu 18/05/23 16:00	Fri 19/05/23 09:00	Pilot Madeswi
3378			R356671	Clear Permit	0.25 hrs	3377	Fri 19/05/23 09:00	Fri 19/05/23 09:15	O Gobotswang,K Ntatane
3379		53TC503	R356675	BASHUT-0303 - Lp Letdown Dsp Dx03 - - Overhaul valve	63 hrs		Fri 12/05/23 13:45	Thu 18/05/23 16:45	
3380			R356675	Make Out Permit	0.25 hrs	3367	Fri 12/05/23 13:45	Fri 12/05/23 14:00	Operations



FINAL EXECUTION DOCUMENT



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3433			R359893	Confirm correct protection settings	0.5 hrs	3432	Mon 15/05/23 15:15	Mon 15/05/23 15:45	O Galeboe,O Chakama	
3434			R359893	Clear permit	0.25 hrs	3433	Mon 15/05/23 15:45	Mon 15/05/23 16:00	O Galeboe,O Chakama	
3435		53C2GA01B	R359894	BSHUT-0308 - BOILER FEED MAKEUP PUMP B - Boiler feed makeup pump B electrical services	4.5 hrs		Mon 15/05/23 13:30	Mon 15/05/23 18:00		
3436			R359894	Make out permit	0.25 hrs	3428	Mon 15/05/23 13:30	Mon 15/05/23 13:45	Operations	
3437			R359894	Accept permit	0.25 hrs	3436	Mon 15/05/23 13:45	Mon 15/05/23 14:00	O Galeboe,O Chakama	
3438			R359894	Carry out electrical isolation	0.25 hrs	3437	Mon 15/05/23 14:00	Mon 15/05/23 14:15	O Galeboe,O Chakama	
3439			R359894	Check loose connections in the panel	0.5 hrs	3438	Mon 15/05/23 14:15	Mon 15/05/23 14:45	O Galeboe,O Chakama	
3440			R359894	Check Contactor contacts	0.5 hrs	3439	Mon 15/05/23 14:45	Mon 15/05/23 15:15	O Galeboe,O Chakama	
3441			R359894	Service Stop/start	0.25 hrs	3440	Mon 15/05/23 15:15	Mon 15/05/23 15:30	O Galeboe,O Chakama	
3442			R359894	Check motor fan condition	0.25 hrs	3441	Mon 15/05/23 15:30	Mon 15/05/23 15:45	O Galeboe,O Chakama	
3443			R359894	Check cable terminal leads for over heating	0.25 hrs	3442	Mon 15/05/23 15:45	Mon 15/05/23 16:00	O Galeboe,O Chakama	
3444			R359894	Tighten Motor connections& Gland intergrity	0.25 hrs	3443	Mon 15/05/23 16:00	Mon 15/05/23 16:15	O Galeboe,O Chakama	
3445			R359894	Seal for Moisture and dust.	1 hr	3444	Mon 15/05/23 16:15	Mon 15/05/23 17:15	O Galeboe,O Chakama	
3446			R359894	Confirm correct protection settings	0.5 hrs	3445	Mon 15/05/23 17:15	Mon 15/05/23 17:45	O Galeboe,O Chakama	
3447			R359894	Clear permit	0.25 hrs	3446	Mon 15/05/23 17:45	Mon 15/05/23 18:00	O Galeboe,O Chakama	
3448		53C2GA02A	R356701	BASHUT-0309 - DEARATOR FEED PUMP A - Dearator feed pump A electrical services	4.5 hrs		Mon 15/05/23 15:30	Tue 16/05/23 09:00		
3449			R356701	Make out permit	0.25 hrs	3441	Mon 15/05/23 15:30	Mon 15/05/23 15:45	O Galeboe,O Chakama	
3450			R356701	Accept permit	0.25 hrs	3449	Mon 15/05/23 15:45	Mon 15/05/23 16:00	O Galeboe,O Chakama	
3451			R356701	Carry out electrical isolation	0.25 hrs	3450	Mon 15/05/23 16:00	Mon 15/05/23 16:15	O Galeboe,O Chakama	
3452			R356701	Check loose connections in the panel	0.5 hrs	3451	Mon 15/05/23 16:15	Mon 15/05/23 16:45	O Galeboe,O Chakama	
3453			R356701	Check Contactor contacts	0.5 hrs	3452	Mon 15/05/23 16:45	Mon 15/05/23 17:15	O Galeboe,O Chakama	
3454			R356701	Service Stop/start	0.25 hrs	3453	Mon 15/05/23 17:15	Mon 15/05/23 17:30	O Galeboe,O Chakama	
3455			R356701	Check motor fan condition	0.25 hrs	3454	Mon 15/05/23 17:30	Mon 15/05/23 17:45	O Galeboe,O Chakama	
3456			R356701	Check cable terminal leads for over heating	0.25 hrs	3455	Mon 15/05/23 17:45	Mon 15/05/23 18:00	O Galeboe,O Chakama	
3457			R356701	Tighten Motor connections& Gland intergrity	0.25 hrs	3456	Mon 15/05/23 18:00	Tue 16/05/23 07:15	O Galeboe,O Chakama	
3458			R356701	Seal for Moisture and dust.	1 hr	3457	Tue 16/05/23 07:15	Tue 16/05/23 08:15	O Galeboe,O Chakama	
3459			R356701	Confirm correct protection settings	0.5 hrs	3458	Tue 16/05/23 08:15	Tue 16/05/23 08:45	O Galeboe,O Chakama	
3460			R356701	Clear permit	0.25 hrs	3459	Tue 16/05/23 08:45	Tue 16/05/23 09:00		
3461		53C2GA02B	R356703	BASHUT-0310 - DEARATOR FEED PUMP B - Dearator feed pump B electrical services	4.5 hrs		Mon 15/05/23 15:45	Tue 16/05/23 09:15		
3462			R356703	Make out permit	0.25 hrs	3449	Mon 15/05/23 15:45	Mon 15/05/23 16:00	Operations	
3463			R356703	Accept permit	0.25 hrs	3462	Mon 15/05/23 16:00	Mon 15/05/23 16:15	O Galeboe,O Chakama	
3464			R356703	Carry out electrical isolation	0.25 hrs	3463	Mon 15/05/23 16:15	Mon 15/05/23 16:30	O Galeboe,O Chakama	
3465			R356703	Check loose connections in the panel	0.5 hrs	3464	Mon 15/05/23 16:30	Mon 15/05/23 17:00	O Galeboe,O Chakama	
3466			R356703	Check Contactor contacts	0.5 hrs	3465	Mon 15/05/23 17:00	Mon 15/05/23 17:30	O Galeboe,O Chakama	
3467			R356703	Service Stop/start	0.25 hrs	3466	Mon 15/05/23 17:30	Mon 15/05/23 17:45	O Galeboe,O Chakama	
3468			R356703	Check motor fan condition	0.25 hrs	3467	Mon 15/05/23 17:45	Mon 15/05/23 18:00	O Galeboe,O Chakama	
3469			R356703	Check cable terminal leads for over heating	0.25 hrs	3468	Mon 15/05/23 18:00	Tue 16/05/23 07:15	O Galeboe,O Chakama	
3470			R356703	Tighten Motor connections& Gland intergrity	0.25 hrs	3469	Tue 16/05/23 07:15	Tue 16/05/23 07:30	O Galeboe,O Chakama	
3471			R356703	Seal for Moisture and dust.	1 hr	3470	Tue 16/05/23 07:30	Tue 16/05/23 08:30	O Galeboe,O Chakama	
3472			R356703	Confirm correct protection settings	0.5 hrs	3471	Tue 16/05/23 08:30	Tue 16/05/23 09:00	O Galeboe,O Chakama	
3473			R356703	Clear permit	0.25 hrs	3472	Tue 16/05/23 09:00	Tue 16/05/23 09:15	O Galeboe,O Chakama	
3474		53C2GA04B	R56706	BASHUT-0311 - MEA CONDENSATE PUMP B - MEA Condensate pump B electrical services	5.75 hrs		Mon 15/05/23 16:00	Tue 16/05/23 10:45		
3475			R56706	Make out permit	0.25 hrs	3462	Mon 15/05/23 16:00	Mon 15/05/23 16:15		
3476			R56706	Accept permit	0.25 hrs	3475	Mon 15/05/23 16:15	Mon 15/05/23 16:30		
3477			R56706	Carry out electrical isolation	0.25 hrs	3476	Mon 15/05/23 16:30	Mon 15/05/23 16:45	O Galeboe,O Chakama	
3478			R56706	Check loose connections in the panel	0.5 hrs	3477	Mon 15/05/23 16:45	Mon 15/05/23 17:15	O Galeboe,O Chakama	
3479			R56706	Check Contactor contacts	0.5 hrs	3478	Mon 15/05/23 17:15	Mon 15/05/23 17:45	O Galeboe,O Chakama	
3480			R56706	Service Stop/start	1.5 hrs	3479	Mon 15/05/23 17:45	Tue 16/05/23 08:15	O Galeboe,O Chakama	
3481			R56706	Check motor fan condition	0.25 hrs	3480	Tue 16/05/23 08:15	Tue 16/05/23 08:30	O Galeboe,O Chakama	
3482			R56706	Check cable terminal leads for over heating	0.25 hrs	3481	Tue 16/05/23 08:30	Tue 16/05/23 08:45	O Galeboe,O Chakama	
3483			R56706	Tighten Motor connections& Gland intergrity	0.25 hrs	3482	Tue 16/05/23 08:45	Tue 16/05/23 09:00	O Galeboe,O Chakama	
3484			R56706	Seal for Moisture and dust.	1 hr	3483	Tue 16/05/23 09:00	Tue 16/05/23 10:00	O Galeboe,O Chakama	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3485			R56706	Confirm correct protection settings	0.5 hrs	3484	Tue 16/05/23 10:00	Tue 16/05/23 10:30	O Galeboe,O Chakama	
3486			R56706	Clear permit	0.25 hrs	3485	Tue 16/05/23 10:30	Tue 16/05/23 10:45	O Galeboe,O Chakama	
3487		AREA 85A		TURBINE	165.25 hrs	4SS+3 da	Sat 06/05/23 10:00	Mon 22/05/23 16:15		
3488				BASHUT-0312 - OPERATIONS	13 hrs		Mon 08/05/23 08:15	Tue 09/05/23 11:15		
3489		Area 85A		Run down turbine	1 hr	1848SS,1	Mon 08/05/23 08:15	Mon 08/05/23 09:15	Operations	
3490		Area 85A		Allow To Cool	13 hrs	3489SS	Mon 08/05/23 08:15	Tue 09/05/23 11:15	Operations	
3491				MECHANICAL	67 hrs		Tue 09/05/23 11:15	Tue 16/05/23 08:15		
3492				BASHUT-0313 - TURBINE INJECTORS - Inspection	41.25 hrs		Tue 09/05/23 11:15	Sat 13/05/23 13:30		
3493				Make out permit	0.75 hrs	3490	Tue 09/05/23 11:15	Tue 09/05/23 12:00	Operations	
3494				Accept permit	0.5 hrs	3493	Tue 09/05/23 13:00	Tue 09/05/23 13:30	J Mothatego,L David	
3495				Remove Injectors	8 hrs	3494	Tue 09/05/23 13:30	Wed 10/05/23 10:30	J Mothatego,L David	
3496				Inspect strainers	1 hr	3495	Wed 10/05/23 10:30	Wed 10/05/23 11:30	J Mothatego,L David	
3497				Clean / Replace if necessary	4 hrs	3496	Wed 10/05/23 11:30	Wed 10/05/23 16:30	J Mothatego,L David	
3498				Install injectors	26 hrs	3497	Wed 10/05/23 16:30	Sat 13/05/23 11:30	J Mothatego,L David	
3499				Clear permit	1 hr	3498	Sat 13/05/23 11:30	Sat 13/05/23 13:30	J Mothatego,L David	
3500		85A2FK01B	R363121	BASHUT-0314 - # B OIL FILTER - Repair leak on the drain line	15.25 hrs		Tue 09/05/23 13:00	Thu 11/05/23 07:15		
3501				Make out permit	0.75 hrs	3493	Tue 09/05/23 13:00	Tue 09/05/23 13:45	Operations	
3502				Accept permit	0.5 hrs	3501	Tue 09/05/23 13:45	Tue 09/05/23 14:15	J Mothatego,L David	
3503				Drain oil	2.5 hrs	3502	Tue 09/05/23 14:15	Tue 09/05/23 16:45	J Mothatego,L David	
3504				Open top cover	3 hrs	3503	Tue 09/05/23 16:45	Wed 10/05/23 08:45	J Mothatego,L David	
3505				Remove oil filter	1 hr	3504	Wed 10/05/23 08:45	Wed 10/05/23 09:45	J Mothatego,L David	
3506				Clean oil traces inside the vessel	1 hr	3505	Wed 10/05/23 09:45	Wed 10/05/23 10:45	J Mothatego,L David	
3507				Repair leak	2.5 hrs	3506	Wed 10/05/23 10:45	Wed 10/05/23 14:15	J Mothatego,L David	
3508				Install new filter	1 hr	3507	Wed 10/05/23 14:15	Wed 10/05/23 15:15	J Mothatego,L David	
3509				Box up top cover	1 hr	3508	Wed 10/05/23 15:15	Wed 10/05/23 16:15	J Mothatego,L David	
3510				Housekeeping	1 hr	3509	Wed 10/05/23 16:15	Wed 10/05/23 17:15	J Mothatego,L David	
3511				Clear permit	1 hr	3510	Wed 10/05/23 17:15	Thu 11/05/23 07:15	J Mothatego,L David	
3512			R363124	BASHUT-0315 - HP EXTRACTION VALVE NRV inspection - Inspect NRV	16.75 hrs		Tue 09/05/23 13:45	Thu 11/05/23 09:30		
3513				Make out permit	0.75 hrs	3501	Tue 09/05/23 13:45	Tue 09/05/23 14:30	Operations	
3514				Accept permit	0.5 hrs	3513	Tue 09/05/23 14:30	Tue 09/05/23 15:00	J Mothatego,L David	
3515				Remove valve	4 hrs	3514	Tue 09/05/23 15:00	Wed 10/05/23 08:00	J Mothatego,L David	
3516				Inspect & replace valve if needed	4 hrs	3515	Wed 10/05/23 08:00	Wed 10/05/23 12:00	J Mothatego,L David	
3517				Install valve	2.5 hrs	3516	Wed 10/05/23 12:00	Wed 10/05/23 15:30	J Mothatego,L David	
3518				Box up	1 hr	3517	Wed 10/05/23 15:30	Wed 10/05/23 16:30	J Mothatego,L David	
3519				Pre commission check	3 hrs	3518	Wed 10/05/23 16:30	Thu 11/05/23 08:30	J Mothatego,L David	
3520				Clear permit	1 hr	3519	Thu 11/05/23 08:30	Thu 11/05/23 09:30	J Mothatego,L David	
3521			R363126	BASHUT-0317 - LP EXTRACTION VALVE NRV inspection	13.25 hrs		Wed 10/05/23 08:00	Thu 11/05/23 11:15		
3522				Make out permit	0.75 hrs	3515	Wed 10/05/23 08:00	Wed 10/05/23 08:45	Operations	
3523				Accept permit	0.5 hrs	3522	Wed 10/05/23 08:45	Wed 10/05/23 09:15	J Mothatego,L David	
3524				Remove valve	1 hr	3523	Wed 10/05/23 09:15	Wed 10/05/23 10:15	J Mothatego,L David	
3525				Inspect & replace valve if needed	4 hrs	3524	Wed 10/05/23 10:15	Wed 10/05/23 15:15	J Mothatego,L David	
3526				Install valve	2.5 hrs	3525	Wed 10/05/23 15:15	Wed 10/05/23 17:45	J Mothatego,L David	
3527				Box up	2.5 hrs	3526	Wed 10/05/23 17:45	Thu 11/05/23 09:15	J Mothatego,L David	
3528				Pre commission check	1 hr	3527	Thu 11/05/23 09:15	Thu 11/05/23 10:15	J Mothatego,L David	
3529				Clear permit	1 hr	3528	Thu 11/05/23 10:15	Thu 11/05/23 11:15	J Mothatego,L David	
3530			R363127	BASHUT-0317 - LETDOWN STATION - Replace HP relief valve	10.75 hrs		Wed 10/05/23 10:15	Thu 11/05/23 11:00		
3531				Make out permit	0.75 hrs	3524	Wed 10/05/23 10:15	Wed 10/05/23 11:00	Operations	
3532				Accept permit	0.5 hrs	3531	Wed 10/05/23 11:00	Wed 10/05/23 11:30	J Mothatego,L David	
3533				Remove valve	2.5 hrs	3532	Wed 10/05/23 11:30	Wed 10/05/23 15:00	J Mothatego,L David	
3534				Install new valve	6 hrs	3533	Wed 10/05/23 15:00	Thu 11/05/23 10:00	J Mothatego,L David	
3535				Clear permit	1 hr	3534	Thu 11/05/23 10:00	Thu 11/05/23 11:00	J Mothatego,L David	
3536			R363128	BASHUT-0318 - LETDOWN STATION - Repair steam leaks	34.75 hrs		Tue 09/05/23 11:15	Fri 12/05/23 17:00		



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3537				Make out permit	0.75 hrs	3490	Tue 09/05/23 11:15	Tue 09/05/23 12:00	Operations	
3538				Accept permit	0.5 hrs	3537	Tue 09/05/23 13:00	Tue 09/05/23 13:30	J Mothatego,L David	
3539				Identify leaks	2.5 hrs	3538	Tue 09/05/23 13:30	Tue 09/05/23 16:00	J Mothatego,L David	
3540				Clean and carry out repairs	30 hrs	3539	Tue 09/05/23 16:00	Fri 12/05/23 16:00	J Mothatego,L David	
3541				Clear permit	1 hr	3540	Fri 12/05/23 16:00	Fri 12/05/23 17:00	J Mothatego,L David	
3542			R363130	BASHUT-0319 - LETDOWN STATION - Repair LP relief valve	66.25 hrs		Tue 09/05/23 13:00	Tue 16/05/23 08:15		
3543				Make out permit	0.75 hrs	3537	Tue 09/05/23 13:00	Tue 09/05/23 13:45	Operations	
3544				Accept permit	0.5 hrs	3543	Tue 09/05/23 13:45	Tue 09/05/23 14:15	J Mothatego,L David	
3545				Remove valve	2.5 hrs	3544	Tue 09/05/23 14:15	Tue 09/05/23 16:45	J Mothatego,L David	
3546				Repair valve	28 hrs	3545	Tue 09/05/23 16:45	Fri 12/05/23 14:45	J Mothatego,L David	
3547				Install valve	33.5 hrs	3546	Fri 12/05/23 14:45	Tue 16/05/23 07:15	J Mothatego,L David	
3548				Clear permit	1 hr	3547	Tue 16/05/23 07:15	Tue 16/05/23 08:15	J Mothatego,L David	
3549			R363131	BASHUT-0320 - Turbine - Install valve support structure	32.25 hrs		Fri 12/05/23 16:00	Tue 16/05/23 07:15		
3550				Make out permit	22.25 hrs	3540	Fri 12/05/23 16:00	Mon 15/05/23 07:15	Operations	
3551				Accept permit	0.5 hrs	3550	Mon 15/05/23 07:15	Mon 15/05/23 07:45	K Keaketswe,K Raphiri	
3552				Assemble& bolt up structure	6 hrs	3551	Mon 15/05/23 07:45	Mon 15/05/23 14:45	K Keaketswe,K Raphiri	
3553				House keeping	2.5 hrs	3552	Mon 15/05/23 14:45	Mon 15/05/23 17:15	K Keaketswe,K Raphiri	
3554				clear permit	1 hr	3553	Mon 15/05/23 17:15	Tue 16/05/23 07:15	K Keaketswe,K Raphiri	
3555				BASHUT-0321 - CCCW HEAT EXCHANGERS - Open and clean	50.25 hrs		Tue 09/05/23 16:45	Sun 14/05/23 17:00		
3556				Make out permit	0.75 hrs	3545	Tue 09/05/23 16:45	Tue 09/05/23 17:30	Operations	
3557				Accept permit	0.5 hrs	3556	Tue 09/05/23 17:30	Tue 09/05/23 18:00	J Mothatego,L David	
3558				Open heat exchangers	4 hrs	3557	Wed 10/05/23 07:00	Wed 10/05/23 11:00	J Mothatego,L David	
3559				Inspect	6 hrs	3558	Wed 10/05/23 11:00	Wed 10/05/23 18:00	J Mothatego,L David	
3560				Clean	8 hrs	3559	Wed 10/05/23 18:00	Thu 11/05/23 16:00	J Mothatego,L David	
3561				Replace plates and gasketts	5 hrs	3560	Thu 11/05/23 16:00	Fri 12/05/23 10:00	J Mothatego,L David	
3562				Box up	25 hrs	3561	Fri 12/05/23 10:00	Sun 14/05/23 16:00	J Mothatego,L David	
3563				Clear permit	1 hr	3562	Sun 14/05/23 16:00	Sun 14/05/23 17:00	J Mothatego,L David	
3564				INSTRUMENTATION	165.25 hrs		Sat 06/05/23 10:00	Mon 22/05/23 16:15		
3565		53A	R363134	BASHUT-0322 - TURBINE PRESSURE GAUGES - Calibrate & service gauges	124.25 hrs		Wed 10/05/23 11:00	Mon 22/05/23 16:15		
3566				Make Out Permit	0.75 hrs	3558	Wed 10/05/23 11:00	Wed 10/05/23 11:45	Operations	
3567				Accept Permit	0.5 hrs	3566	Wed 10/05/23 11:45	Wed 10/05/23 13:15	K Ntatane,O Gobotswang	
3568				Remove All Press. Gauges	26 hrs	3567	Wed 10/05/23 13:15	Sat 13/05/23 08:15	K Ntatane,O Gobotswang	
3569				Cal.& Service Gauges	27 hrs	3568	Sat 13/05/23 08:15	Mon 15/05/23 16:15	K Ntatane,O Gobotswang	
3570				Mark All Gauges	19 hrs	3569	Mon 15/05/23 16:15	Wed 17/05/23 15:15	K Ntatane,O Gobotswang	
3571				Replace All Pressure Gauges	28 hrs	3570	Wed 17/05/23 15:15	Sat 20/05/23 13:15	K Ntatane,O Gobotswang	
3572				Carry Out Inspection	22 hrs	3571	Sat 20/05/23 13:15	Mon 22/05/23 15:15	J Baaisi	
3573				Clear Permit	1 hr	3572	Mon 22/05/23 15:15	Mon 22/05/23 16:15	K Ntatane,O Gobotswang	
3574		53TC504	R363137	BASHUT-0323 - TURBINE Hp Dsp Dx04 - Overhaul valve	58 hrs		Wed 10/05/23 10:30	Tue 16/05/23 08:30		
3575				Make Out Permit	0.75 hrs	3495	Wed 10/05/23 10:30	Wed 10/05/23 11:15	Operations	
3576				Accept Permit	0.5 hrs	3575	Wed 10/05/23 11:15	Wed 10/05/23 11:45	K Ntatane,O Gobotswang	
3577				Disconnect Valve Instruments	2.5 hrs	3576	Wed 10/05/23 11:45	Wed 10/05/23 15:15	K Ntatane,O Gobotswang	
3578				Remove Valve	5 hrs	3577	Wed 10/05/23 15:15	Thu 11/05/23 09:15	K Ntatane,O Gobotswang,L David,J Mothatego	
3579				Transport To Workshop	1 hr	3578	Thu 11/05/23 09:15	Thu 11/05/23 10:15	K Ntatane,O Gobotswang,L David,J Mothatego	
3580				Overhaul Valve	24 hrs	3579	Thu 11/05/23 10:15	Sat 13/05/23 15:15	App Weld(cci),K Ntatane,O Gobotswang	
3581				Transport To Plant	1 hr	3580	Sat 13/05/23 15:15	Sat 13/05/23 16:15	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3582				Install Valve	14.75 hrs	3581	Sat 13/05/23 16:15	Mon 15/05/23 10:00	App Weld(cci),K Raphiri,K Keaketswe,K Ntatane,O Gobotswang,T Mmatli,G mo	
3583				Reconnect Valve Instruments	4 hrs	3582	Mon 15/05/23 10:00	Mon 15/05/23 15:00	App Weld(cci),K Ntatane,O Gobotswang	
3584				Stroke Check Valve To Dcs	2.5 hrs	3583	Mon 15/05/23 15:00	Mon 15/05/23 17:30	K Ntatane,O Gobotswang	
3585				Carry Out Inspection	1 hr	3584	Mon 15/05/23 17:30	Tue 16/05/23 07:30	Pilot Madeswi	
3586				Clear Permit	1 hr	3585	Tue 16/05/23 07:30	Tue 16/05/23 08:30	K Ntatane,O Gobotswang	
3587		53TC505	R363139	BASHUT-0324 - TURBINE Lp Dsp Dx05	49 hrs		Thu 11/05/23 09:15	Tue 16/05/23 08:15		
3588				Make Out Permit	0.75 hrs	3578	Thu 11/05/23 09:15	Thu 11/05/23 10:00	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3589	  			Accept Permit	0.5 hrs	3588	Thu 11/05/23 10:00	Thu 11/05/23 10:30	K Ntatane,O Gobotswang	
3590	 			Disconnect Valve Instruments	4 hrs	3589	Thu 11/05/23 10:30	Thu 11/05/23 15:30	K Ntatane,O Gobotswang	
3591	 			Remove Valve	3.25 hrs	3590	Thu 11/05/23 15:30	Fri 12/05/23 07:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L David,J Mothat	
3592	 			Transport To Workshop	1 hr	3591	Fri 12/05/23 07:45	Fri 12/05/23 08:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3593	 			Overhaul Valve	24 hrs	3592	Fri 12/05/23 08:45	Sun 14/05/23 13:45	App Weld(cci),K Ntatane,O Gobotswang	
3594	 			Transport To Plant	1 hr	3593	Sun 14/05/23 13:45	Sun 14/05/23 14:45	K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya	
3595	 			Install Valve	3 hrs	3594	Sun 14/05/23 14:45	Sun 14/05/23 17:45	App Weld(cci),K Ntatane,O Gobotswang,T Mmatli,G moiseraela,J Mosenya,L D	
3596	 			Reconnect Valve Instruments	4 hrs	3595	Sun 14/05/23 17:45	Mon 15/05/23 10:45	App Weld(cci),K Ntatane,O Gobotswang	
3597	 			Stroke Check Valve To Dcs	4 hrs	3596	Mon 15/05/23 10:45	Mon 15/05/23 15:45	K Ntatane,O Gobotswang	
3598	 			Carry Out Inspection	2.5 hrs	3597	Mon 15/05/23 15:45	Tue 16/05/23 07:15	Pilot Madeswi	
3599	 			Clear Permit	1 hr	3598	Tue 16/05/23 07:15	Tue 16/05/23 08:15	K Ntatane,O Gobotswang	
3600	 	85PV081	R363140	BASHUT-0325 - HP EXTRACTION VALVE	34.25 hrs		Fri 12/05/23 07:45	Mon 15/05/23 12:00		
3601	 			Make out permits	0.75 hrs	3591	Fri 12/05/23 07:45	Fri 12/05/23 08:30	Operations	
3602	 			Accept permit	0.5 hrs	3601	Fri 12/05/23 08:30	Fri 12/05/23 09:00	K Ntatane,O Gobotswang	
3603	 			Disconnect instruments	2.5 hrs	3602	Fri 12/05/23 09:00	Fri 12/05/23 11:30	K Ntatane,O Gobotswang	
3604	 			Remove valve	3 hrs	3603	Fri 12/05/23 11:30	Fri 12/05/23 15:30	G moiseraela,K Ntatane,J Mosenya,O Gobotswang,T Mmatli	
3605	 			Replace valve	24 hrs	3604	Fri 12/05/23 15:30	Mon 15/05/23 08:30	K Ntatane,J Mosenya,J Mothatego,L David,O Gobotswang,T Mmatli	
3606	 			Stroke check valve	2.5 hrs	3605	Mon 15/05/23 08:30	Mon 15/05/23 11:00	K Ntatane,O Gobotswang	
3607	 			Clear permits	1 hr	3606	Mon 15/05/23 11:00	Mon 15/05/23 12:00	K Ntatane,O Gobotswang	
3608	 	85PV081	R363142	BASHUT-0326 - LP EXTRACTION VALVE	34.75 hrs		Sat 06/05/23 10:00	Tue 09/05/23 15:45		
3609	 			Make out permits	0.75 hrs		Sat 06/05/23 10:00	Sat 06/05/23 10:45	Operations	
3610	 			Accept permit	0.5 hrs	3609	Sat 06/05/23 10:45	Sat 06/05/23 11:15	K Ntatane,O Gobotswang	
3611	 			Disconnect instruments	17.75 hrs	3610	Sat 06/05/23 11:15	Mon 08/05/23 09:00	K Ntatane,O Gobotswang	
3612	 			Remove valve	6 hrs	3611	Mon 08/05/23 09:00	Mon 08/05/23 16:00	K Ntatane,J Mosenya,J Mothatego,L David,O Gobotswang,T Mmatli	
3613	 			Replace valve	4.75 hrs	3612	Mon 08/05/23 16:00	Tue 09/05/23 09:45	K Ntatane,J Mosenya,J Mothatego,L David,O Gobotswang,T Mmatli	
3614	 			Stroke check valve	4 hrs	3613	Tue 09/05/23 09:45	Tue 09/05/23 14:45	K Ntatane,O Gobotswang	
3615	 			Clear permits	1 hr	3614	Tue 09/05/23 14:45	Tue 09/05/23 15:45	K Ntatane,O Gobotswang	
3616	 			ELECTRICAL	98.75 hrs		Tue 09/05/23 11:15	Fri 19/05/23 10:00		
3617	 	85A2LB01	R356768	BASHUT-0327 - ALTERNATOR SET - Inspect & clean busbars	12.75 hrs		Tue 09/05/23 11:15	Wed 10/05/23 15:00		
3618	 			Make out permit	0.25 hrs	3490	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
3619	 			Accept permit	0.25 hrs	3618	Tue 09/05/23 11:30	Tue 09/05/23 11:45	O Chakama,O Galeboe	
3620	 			Make out electrical clearance certificate	0.25 hrs	3619	Tue 09/05/23 11:45	Tue 09/05/23 12:00	O Chakama,O Galeboe	
3621	 			Apply portable earth on the circuit	0.25 hrs	3620	Tue 09/05/23 13:00	Tue 09/05/23 13:15	O Chakama,O Galeboe	
3622	 			Open star point	1 hr	3621	Tue 09/05/23 13:15	Tue 09/05/23 14:15	O Chakama,O Galeboe	
3623	 			Inspect& clean busbars	6 hrs	3622	Tue 09/05/23 14:15	Wed 10/05/23 09:15	O Chakama,O Galeboe	
3624	 			Close star point	4 hrs	3623	Wed 10/05/23 09:15	Wed 10/05/23 14:15	O Chakama,O Galeboe	
3625	 			Remove portable earth	0.25 hrs	3624	Wed 10/05/23 14:15	Wed 10/05/23 14:30	O Chakama,O Galeboe	
3626	 			Clear electrical clearance certificate	0.25 hrs	3625	Wed 10/05/23 14:30	Wed 10/05/23 14:45	O Chakama,O Galeboe	
3627	 			Clear permit	0.25 hrs	3626	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Chakama,O Galeboe	
3628	 	85A2GA01B	R356775	BASHUT-0328 - AUXILIARY LUBE OIL PUMP - Services electric motor and panel component	17 hrs		Tue 09/05/23 14:15	Thu 11/05/23 10:15		
3629	 			Make out permit	0.25 hrs	3622	Tue 09/05/23 14:15	Tue 09/05/23 14:30	Operations	
3630	 			Accept permit	0.25 hrs	3629	Tue 09/05/23 14:30	Tue 09/05/23 14:45	O Chakama,O Galeboe	
3631	 			Carry out electrical isolation	0.25 hrs	3630	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Chakama,O Galeboe	
3632	 			Check loose connections in the panel	0.5 hrs	3631	Tue 09/05/23 15:00	Tue 09/05/23 15:30	O Chakama,O Galeboe	
3633	 			Service panel components& Clear dust	11 hrs	3632	Tue 09/05/23 15:30	Wed 10/05/23 16:30	O Chakama,O Galeboe	
3634	 			Service Stop/start	0.25 hrs	3633	Wed 10/05/23 16:30	Wed 10/05/23 16:45	O Chakama,O Galeboe	
3635	 			Check motor fan condition	1.5 hrs	3634	Wed 10/05/23 16:45	Thu 11/05/23 07:15	O Chakama,O Galeboe	
3636	 			Check cable terminal leads for over heating	1 hr	3635	Thu 11/05/23 07:15	Thu 11/05/23 08:15	O Chakama,O Galeboe	
3637	 			Tighten Motor connections& Gland integrity	0.25 hrs	3636	Thu 11/05/23 08:15	Thu 11/05/23 08:30	O Chakama,O Galeboe	
3638	 			Seal for Moisture and dust.	1 hr	3637	Thu 11/05/23 08:30	Thu 11/05/23 09:30	O Chakama,O Galeboe	
3639	 			Confirm correct protection settings	0.5 hrs	3638	Thu 11/05/23 09:30	Thu 11/05/23 10:00	O Chakama,O Galeboe	
3640	 			Clear permit	0.25 hrs	3639	Thu 11/05/23 10:00	Thu 11/05/23 10:15	O Chakama,O Galeboe	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3641		85A2GA07A	R356780	BASHUT-0329 - CLOSE CIRCUIT COOLING WATER PUMP A - Services electric motor and pan	15 hrs		Tue 09/05/23 15:00	Thu 11/05/23 09:00		
3642				Make out permit	0.25 hrs	3631	Tue 09/05/23 15:00	Tue 09/05/23 15:15	Operations	
3643				Accept permit	0.25 hrs	3642	Tue 09/05/23 15:15	Tue 09/05/23 15:30	O Galeboe,O Chakama	
3644				Carry out electrical isolation	0.25 hrs	3643	Tue 09/05/23 15:30	Tue 09/05/23 15:45	O Galeboe,O Chakama	
3645				Check loose connections in the panel	0.5 hrs	3644	Tue 09/05/23 15:45	Tue 09/05/23 16:15	O Galeboe,O Chakama	
3646				Service panel components& Clear dust	11 hrs	3645	Tue 09/05/23 16:15	Wed 10/05/23 17:15	O Galeboe,O Chakama	
3647				Service Stop/start	0.25 hrs	3646	Wed 10/05/23 17:15	Wed 10/05/23 17:30	O Galeboe,O Chakama	
3648				Check motor fan condition	0.25 hrs	3647	Wed 10/05/23 17:30	Wed 10/05/23 17:45	O Galeboe,O Chakama	
3649				Check cable terminal leads for over heating	0.25 hrs	3648	Wed 10/05/23 17:45	Wed 10/05/23 18:00	O Galeboe,O Chakama	
3650				Tighten Motor connections& Gland intergrity	0.25 hrs	3649	Wed 10/05/23 18:00	Thu 11/05/23 07:15	O Galeboe,O Chakama	
3651				Seal for Moisture and dust.	1 hr	3650	Thu 11/05/23 07:15	Thu 11/05/23 08:15	O Galeboe,O Chakama	
3652				Confirm correct protection settings	0.5 hrs	3651	Thu 11/05/23 08:15	Thu 11/05/23 08:45	O Galeboe,O Chakama	
3653				Clear permit	0.25 hrs	3652	Thu 11/05/23 08:45	Thu 11/05/23 09:00	O Galeboe,O Chakama	
3654		85A2GA07B	R356784	BASHUT-0330 - CLOSE CIRCUIT COOLING WATER PUMP B - Services electric motor and pan	17.75 hrs		Wed 10/05/23 17:30	Fri 12/05/23 15:15		
3655				Make out permit	0.25 hrs	3647	Wed 10/05/23 17:30	Wed 10/05/23 17:45	Operations	
3656				Accept permit	0.25 hrs	3655	Wed 10/05/23 17:45	Wed 10/05/23 18:00	O Galeboe,O Chakama	
3657				Carry out electrical isolation	1.25 hrs	3656	Thu 11/05/23 07:00	Thu 11/05/23 08:15	O Galeboe,O Chakama	
3658				Check loose connections in the panel	2.25 hrs	3657	Thu 11/05/23 08:15	Thu 11/05/23 10:30	O Galeboe,O Chakama	
3659				Service panel components& Clear dust	11 hrs	3658	Thu 11/05/23 10:30	Fri 12/05/23 11:30	O Galeboe,O Chakama	
3660				Service Stop/start	0.25 hrs	3659	Fri 12/05/23 11:30	Fri 12/05/23 11:45	O Galeboe,O Chakama	
3661				Check motor fan condition	0.25 hrs	3660	Fri 12/05/23 11:45	Fri 12/05/23 12:00	O Galeboe,O Chakama	
3662				Check cable terminal leads for over heating	0.25 hrs	3661	Fri 12/05/23 13:00	Fri 12/05/23 13:15	O Galeboe,O Chakama	
3663				Tighten Motor connections& Gland intergrity	0.25 hrs	3662	Fri 12/05/23 13:15	Fri 12/05/23 13:30	O Galeboe,O Chakama	
3664				Seal for Moisture and dust.	1 hr	3663	Fri 12/05/23 13:30	Fri 12/05/23 14:30	O Galeboe,O Chakama	
3665				Confirm correct protection settings	0.5 hrs	3664	Fri 12/05/23 14:30	Fri 12/05/23 15:00	O Galeboe,O Chakama	
3666				Clear permit	0.25 hrs	3665	Fri 12/05/23 15:00	Fri 12/05/23 15:15	O Galeboe,O Chakama	
3667		85A2GA07C	R357300	BASHUT-0331 - CLOSE CIRCUIT COOLING WATER PUMP C - Services electric motor and pan	16.5 hrs		Wed 10/05/23 17:45	Fri 12/05/23 14:15		
3668				Make out permit	0.25 hrs	3655	Wed 10/05/23 17:45	Wed 10/05/23 18:00	Operations	
3669				Accept permit	0.25 hrs	3668	Wed 10/05/23 18:00	Thu 11/05/23 07:15	O Galeboe,O Chakama	
3670				Carry out electrical isolation	0.25 hrs	3669	Thu 11/05/23 07:15	Thu 11/05/23 07:30	O Galeboe,O Chakama	
3671				Check loose connections in the panel	2 hrs	3670	Thu 11/05/23 07:30	Thu 11/05/23 09:30	O Galeboe,O Chakama	
3672				Service panel components& Clear dust	11 hrs	3671	Thu 11/05/23 09:30	Fri 12/05/23 10:30	O Galeboe,O Chakama	
3673				Service Stop/start	0.25 hrs	3672	Fri 12/05/23 10:30	Fri 12/05/23 10:45	O Galeboe,O Chakama	
3674				Check motor fan condition	0.25 hrs	3673	Fri 12/05/23 10:45	Fri 12/05/23 11:00	O Galeboe,O Chakama	
3675				Check cable terminal leads for over heating	0.25 hrs	3674	Fri 12/05/23 11:00	Fri 12/05/23 11:15	O Galeboe,O Chakama	
3676				Tighten Motor connections& Gland intergrity	0.25 hrs	3675	Fri 12/05/23 11:15	Fri 12/05/23 11:30	O Galeboe,O Chakama	
3677				Seal for Moisture and dust.	1 hr	3676	Fri 12/05/23 11:30	Fri 12/05/23 13:30	O Galeboe,O Chakama	
3678				Confirm correct protection settings	0.5 hrs	3677	Fri 12/05/23 13:30	Fri 12/05/23 14:00	O Galeboe,O Chakama	
3679				Clear permit	0.25 hrs	3678	Fri 12/05/23 14:00	Fri 12/05/23 14:15	O Galeboe,O Chakama	
3680		85A2GA01C	R357302	BASHUT-0332 - EMERGENCY LUBE OIL PUMP - Services electric motor and panel componer	29.25 hrs		Fri 12/05/23 10:45	Mon 15/05/23 10:00		
3681				Make out permit	0.25 hrs	3673	Fri 12/05/23 10:45	Fri 12/05/23 11:00	Operations	
3682				Accept permit	0.25 hrs	3681	Fri 12/05/23 11:00	Fri 12/05/23 11:15	O Galeboe,O Chakama	
3683				Carry out electrical isolation	0.25 hrs	3682	Fri 12/05/23 11:15	Fri 12/05/23 11:30	O Galeboe,O Chakama	
3684				Check loose connections in the panel	0.5 hrs	3683	Fri 12/05/23 11:30	Fri 12/05/23 12:00	O Galeboe,O Chakama	
3685				Service panel components& Clear dust	11 hrs	3684	Fri 12/05/23 12:00	Sat 13/05/23 14:00	O Galeboe,O Chakama	
3686				Service Stop/start	0.25 hrs	3685	Sat 13/05/23 14:00	Sat 13/05/23 14:15	O Galeboe,O Chakama	
3687				Check motor fan condition	0.25 hrs	3686	Sat 13/05/23 14:15	Sat 13/05/23 14:30	O Galeboe,O Chakama	
3688				Check cable terminal leads for over heating	0.25 hrs	3687	Sat 13/05/23 14:30	Sat 13/05/23 14:45	O Galeboe,O Chakama	
3689				Tighten Motor connections& Gland intergrity	14.5 hrs	3688	Sat 13/05/23 14:45	Mon 15/05/23 08:15	O Galeboe,O Chakama	
3690				Seal for Moisture and dust.	1 hr	3689	Mon 15/05/23 08:15	Mon 15/05/23 09:15	O Galeboe,O Chakama	
3691				Confirm correct protection settings	0.5 hrs	3690	Mon 15/05/23 09:15	Mon 15/05/23 09:45	O Galeboe,O Chakama	
3692				Clear permit	0.25 hrs	3691	Mon 15/05/23 09:45	Mon 15/05/23 10:00	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3693		85A2GA04A	R357305	BASHUT-0333 - JACKING OIL PUMP A - Services electric motor and panel components	29.25 hrs		Sat 13/05/23 14:15	Tue 16/05/23 13:30		
3694				Make out permit	0.25 hrs	3686	Sat 13/05/23 14:15	Sat 13/05/23 14:30	Operations	
3695				Accept permit	0.25 hrs	3694	Sat 13/05/23 14:30	Sat 13/05/23 14:45	O Galeboe,O Chakama	
3696				Carry out electrical isolation	14.5 hrs	3695	Sat 13/05/23 14:45	Mon 15/05/23 08:15	O Galeboe,O Chakama	
3697				Check loose connections in the panel	0.5 hrs	3696	Mon 15/05/23 08:15	Mon 15/05/23 08:45	O Galeboe,O Chakama	
3698				Service panel components& Clear dust	11 hrs	3697	Mon 15/05/23 08:45	Tue 16/05/23 09:45	O Galeboe,O Chakama	
3699				Service Stop/start	0.25 hrs	3698	Tue 16/05/23 09:45	Tue 16/05/23 10:00	O Galeboe,O Chakama	
3700				Check motor fan condition	0.25 hrs	3699	Tue 16/05/23 10:00	Tue 16/05/23 10:15	O Galeboe,O Chakama	
3701				Check cable terminal leads for over heating	0.25 hrs	3700	Tue 16/05/23 10:15	Tue 16/05/23 10:30	O Galeboe,O Chakama	
3702				Tighten Motor connections& Gland intergrity	0.25 hrs	3701	Tue 16/05/23 10:30	Tue 16/05/23 10:45	O Galeboe,O Chakama	
3703				Seal for Moisture and dust.	1 hr	3702	Tue 16/05/23 10:45	Tue 16/05/23 11:45	O Galeboe,O Chakama	
3704				Confirm correct protection settings	0.5 hrs	3703	Tue 16/05/23 11:45	Tue 16/05/23 13:15	O Galeboe,O Chakama	
3705				Clear permit	0.25 hrs	3704	Tue 16/05/23 13:15	Tue 16/05/23 13:30	O Galeboe,O Chakama	
3706		85A2GA01A	R357310	BASHUT-0334 - MAIN LUBE OIL PUMP - Services electric motor and panel components	15 hrs		Tue 16/05/23 10:00	Wed 17/05/23 16:00		
3707				Make out permit	0.25 hrs	3699	Tue 16/05/23 10:00	Tue 16/05/23 10:15	Operations	
3708				Accept permit	0.25 hrs	3707	Tue 16/05/23 10:15	Tue 16/05/23 10:30	O Galeboe,O Chakama	
3709				Carry out electrical isolation	0.25 hrs	3708	Tue 16/05/23 10:30	Tue 16/05/23 10:45	O Galeboe,O Chakama	
3710				Check loose connections in the panel	0.5 hrs	3709	Tue 16/05/23 10:45	Tue 16/05/23 11:15	O Galeboe,O Chakama	
3711				Service panel components& Clear dust	11 hrs	3710	Tue 16/05/23 11:15	Wed 17/05/23 13:15	O Galeboe,O Chakama	
3712				Service Stop/start	0.25 hrs	3711	Wed 17/05/23 13:15	Wed 17/05/23 13:30	O Galeboe,O Chakama	
3713				Check motor fan condition	0.25 hrs	3712	Wed 17/05/23 13:30	Wed 17/05/23 13:45	O Galeboe,O Chakama	
3714				Check cable terminal leads for over heating	0.25 hrs	3713	Wed 17/05/23 13:45	Wed 17/05/23 14:00	O Galeboe,O Chakama	
3715				Tighten Motor connections& Gland intergrity	0.25 hrs	3714	Wed 17/05/23 14:00	Wed 17/05/23 14:15	O Galeboe,O Chakama	
3716				Seal for Moisture and dust.	1 hr	3715	Wed 17/05/23 14:15	Wed 17/05/23 15:15	O Galeboe,O Chakama	
3717				Confirm correct protection settings	0.5 hrs	3716	Wed 17/05/23 15:15	Wed 17/05/23 15:45	O Galeboe,O Chakama	
3718				Clear permit	0.25 hrs	3717	Wed 17/05/23 15:45	Wed 17/05/23 16:00	O Galeboe,O Chakama	
3719		85A2GA02A	R357312	BASHUT-0335 - TURBINE CONDENSATE EXTRACTION PUMP A - Services electric motor and	17.5 hrs		Wed 17/05/23 13:30	Fri 19/05/23 10:00		
3720				Make out permit	0.25 hrs	3712	Wed 17/05/23 13:30	Wed 17/05/23 13:45	Operations	
3721				Accept permit	0.25 hrs	3720	Wed 17/05/23 13:45	Wed 17/05/23 14:00	O Galeboe,O Chakama	
3722				Carry out electrical isolation	0.75 hrs	3721	Wed 17/05/23 14:00	Wed 17/05/23 14:45	O Galeboe,O Chakama	
3723				Check loose connections in the panel	0.5 hrs	3722	Wed 17/05/23 14:45	Wed 17/05/23 15:15	O Galeboe,O Chakama	
3724				Service panel components& Clear dust	11 hrs	3723	Wed 17/05/23 15:15	Thu 18/05/23 16:15	O Galeboe,O Chakama	
3725				Service Stop/start	0.25 hrs	3724	Thu 18/05/23 16:15	Thu 18/05/23 16:30	O Galeboe,O Chakama	
3726				Check motor fan condition	0.25 hrs	3725	Thu 18/05/23 16:30	Thu 18/05/23 16:45	O Galeboe,O Chakama	
3727				Check cable terminal leads for over heating	0.25 hrs	3726	Thu 18/05/23 16:45	Thu 18/05/23 17:00	O Galeboe,O Chakama	
3728				Tighten Motor connections& Gland intergrity	2.25 hrs	3727	Thu 18/05/23 17:00	Fri 19/05/23 08:15	O Galeboe,O Chakama	
3729				Seal for Moisture and dust.	1 hr	3728	Fri 19/05/23 08:15	Fri 19/05/23 09:15	O Galeboe,O Chakama	
3730				Confirm correct protection settings	0.5 hrs	3729	Fri 19/05/23 09:15	Fri 19/05/23 09:45	O Galeboe,O Chakama	
3731				Clear permit	0.25 hrs	3730	Fri 19/05/23 09:45	Fri 19/05/23 10:00	O Galeboe,O Chakama	
3732		85A2GA02B	R357314	BASHUT-0336 - TURBINE CONDENSATE EXTRACTION PUMP B - Services electric motor and	15.25 hrs		Wed 17/05/23 13:45	Fri 19/05/23 08:00		
3733				Make out permit	0.25 hrs	3720	Wed 17/05/23 13:45	Wed 17/05/23 14:00	Operations	
3734				Accept permit	0.25 hrs	3733	Wed 17/05/23 14:00	Wed 17/05/23 14:15	O Galeboe,O Chakama	
3735				Carry out electrical isolation	0.5 hrs	3734	Wed 17/05/23 14:15	Wed 17/05/23 14:45	O Galeboe,O Chakama	
3736				Check loose connections in the panel	0.5 hrs	3735	Wed 17/05/23 14:45	Wed 17/05/23 15:15	O Galeboe,O Chakama	
3737				Service panel components& Clear dust	11 hrs	3736	Wed 17/05/23 15:15	Thu 18/05/23 16:15	O Galeboe,O Chakama	
3738				Service Stop/start	0.25 hrs	3737	Thu 18/05/23 16:15	Thu 18/05/23 16:30	O Galeboe,O Chakama	
3739				Check motor fan condition	0.25 hrs	3738	Thu 18/05/23 16:30	Thu 18/05/23 16:45	O Galeboe,O Chakama	
3740				Check cable terminal leads for over heating	0.25 hrs	3739	Thu 18/05/23 16:45	Thu 18/05/23 17:00	O Galeboe,O Chakama	
3741				Tighten Motor connections& Gland intergrity	0.25 hrs	3740	Thu 18/05/23 17:00	Thu 18/05/23 17:15	O Galeboe,O Chakama	
3742				Seal for Moisture and dust.	1 hr	3741	Thu 18/05/23 17:15	Fri 19/05/23 07:15	O Galeboe,O Chakama	
3743				Confirm correct protection settings	0.5 hrs	3742	Fri 19/05/23 07:15	Fri 19/05/23 07:45	O Galeboe,O Chakama	
3744				Clear permit	0.25 hrs	3743	Fri 19/05/23 07:45	Fri 19/05/23 08:00	O Galeboe,O Chakama	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3745		AREA 85B		MV RETICULATION	126.75 hrs	4SS+3 da	Sat 06/05/23 10:00	Thu 18/05/23 17:45		
3746				ELECTRICAL	126.75 hrs		Sat 06/05/23 10:00	Thu 18/05/23 17:45		
3747		85B2ND2021	R363144	BASHUT-0337 - POWER SUB 3.3 Kv BOARD - Service YSF6 breakers	13.75 hrs		Tue 09/05/23 11:15	Wed 10/05/23 16:00		
3748				Make Out Permit	0.25 hrs	3490	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
3749				Accept Permit	0.25 hrs	3748	Tue 09/05/23 11:30	Tue 09/05/23 11:45	O Galeboe,O Chakama	
3750				Carry Out Elect Isolation& Rack Out Breaker	0.5 hrs	3749	Tue 09/05/23 11:45	Tue 09/05/23 13:15	O Galeboe,O Chakama	
3751				Conduct Risk Assessment	0.25 hrs	3750	Tue 09/05/23 13:15	Tue 09/05/23 13:30	Electrical Test,O Galeboe,O Chakama	
3752				Strip Breaker And Lubricate Moving Parts	2.5 hrs	3751	Tue 09/05/23 13:30	Tue 09/05/23 16:00	Electrical Test	
3753				Test Spring Rewind Motor& Limit Switches	4 hrs	3752	Tue 09/05/23 16:00	Wed 10/05/23 09:00	Electrical Test	
3754				Check Ysf6 Chamber For Leaks	1 hr	3753	Wed 10/05/23 09:00	Wed 10/05/23 10:00	Electrical Test	
3755				Check If Trip Supervisory Relay Resets	0.25 hrs	3754	Wed 10/05/23 10:00	Wed 10/05/23 10:15	Electrical Test	
3756				Assemble Breaker	3 hrs	3755	Wed 10/05/23 10:15	Wed 10/05/23 14:15	Electrical Test	
3757				Test Breaker With Ductor Tester	0.25 hrs	3756	Wed 10/05/23 14:15	Wed 10/05/23 14:30	Electrical Test	
3758				Install Service Sticker On The Breaker	0.25 hrs	3757	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Electrical Test	
3759				Clear Permit	0.25 hrs	3758	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
3760				Commission Breaker	1 hr	3759	Wed 10/05/23 15:00	Wed 10/05/23 16:00	Electrical Test,O Galeboe,O Chakama	
3761		85B7NK4000	R363147	BASHUT-0338 - POWER SUB 11Kv BOARD - Service YSF6 breakers	14.25 hrs		Wed 10/05/23 15:00	Fri 12/05/23 08:15		
3762				Make Out Permit	0.25 hrs	3759	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Operations	
3763				Accept Permit	0.25 hrs	3762	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
3764				Carry Out Electrical Isolation	0.5 hrs	3763	Wed 10/05/23 15:30	Wed 10/05/23 16:00	O Galeboe,O Chakama	
3765				Conduct Risk Assessment	0.25 hrs	3764	Wed 10/05/23 16:00	Wed 10/05/23 16:15	Electrical Test,O Galeboe,O Chakama	
3766				Strip Breaker And Lubricate Moving Parts	3.5 hrs	3765	Wed 10/05/23 16:15	Thu 11/05/23 08:45	Electrical Test	
3767				Test Spring Rewind Motor& Limit Switches	3.5 hrs	3766	Thu 11/05/23 08:45	Thu 11/05/23 13:15	Electrical Test	
3768				Check Ysf6 Chamber For Leaks	1 hr	3767	Thu 11/05/23 13:15	Thu 11/05/23 14:15	Electrical Test	
3769				Check If Trip Supervisory Relay Resets	0.25 hrs	3768	Thu 11/05/23 14:15	Thu 11/05/23 14:30	Electrical Test	
3770				Assemble Breaker	3 hrs	3769	Thu 11/05/23 14:30	Thu 11/05/23 17:30	Electrical Test	
3771				Test Breaker With Ductor Tester	0.25 hrs	3770	Thu 11/05/23 17:30	Thu 11/05/23 17:45	Electrical Test	
3772				Install Service Sticker On The Breaker	0.25 hrs	3771	Thu 11/05/23 17:45	Thu 11/05/23 18:00	Electrical Test	
3773				Clear Permit	0.25 hrs	3772	Thu 11/05/23 18:00	Fri 12/05/23 07:15	O Galeboe,O Chakama	
3774				Commission Breaker	1 hr	3773	Fri 12/05/23 07:15	Fri 12/05/23 08:15	Electrical Test,O Galeboe,O Chakama	
3775		85B527NK20200	R363149	BASHUT-0339 - CARBONATION SUB 3.3Kv BOARD - Service YSF6 breakers	32.5 hrs		Fri 12/05/23 07:15	Mon 15/05/23 09:45		
3776				Make Out Permit	1 hr	3773	Fri 12/05/23 07:15	Fri 12/05/23 08:15	Operations	
3777				Accept Permit	0.25 hrs	3776	Fri 12/05/23 08:15	Fri 12/05/23 08:30	O Galeboe,O Chakama	
3778				Carry Out Electrical Isolation	0.5 hrs	3777	Fri 12/05/23 08:30	Fri 12/05/23 09:00	O Galeboe,O Chakama	
3779				Conduct Risk Assessment	0.25 hrs	3778	Fri 12/05/23 09:00	Fri 12/05/23 09:15	Electrical Test,O Galeboe,O Chakama	
3780				Strip Breaker And Lubricate Moving Parts	2.5 hrs	3779	Fri 12/05/23 09:15	Fri 12/05/23 11:45	Electrical Test	
3781				Test Spring Rewind Motor& Limit Switches	2.5 hrs	3780	Fri 12/05/23 11:45	Fri 12/05/23 15:15	Electrical Test	
3782				Check Ysf6 Chamber For Leaks	1 hr	3781	Fri 12/05/23 15:15	Fri 12/05/23 16:15	Electrical Test	
3783				Check If Trip Supervisory Relay Resets	0.25 hrs	3782	Fri 12/05/23 16:15	Fri 12/05/23 16:30	Electrical Test	
3784				Assemble Breaker	3 hrs	3783	Fri 12/05/23 16:30	Sat 13/05/23 08:30	Electrical Test	
3785				Test Breaker With Ductor Tester	19.75 hrs	3784	Sat 13/05/23 08:30	Mon 15/05/23 08:15	Electrical Test	
3786				Install Service Sticker On The Breaker	0.25 hrs	3785	Mon 15/05/23 08:15	Mon 15/05/23 08:30	Electrical Test	
3787				Clear Permit	0.25 hrs	3786	Mon 15/05/23 08:30	Mon 15/05/23 08:45	O Galeboe,O Chakama	
3788				Commission Breaker	1 hr	3787	Mon 15/05/23 08:45	Mon 15/05/23 09:45	Electrical Test,O Galeboe,O Chakama	
3789		14A527ND40106	R363151	BASHUT-0340 - PS 1 SUB 11Kv BOARD - Service YSF6 breakers	35 hrs		Fri 12/05/23 07:15	Mon 15/05/23 13:15		
3790				Make Out Permit	1 hr	3773	Fri 12/05/23 07:15	Fri 12/05/23 08:15	Operations	
3791				Accept Permit	0.25 hrs	3790	Fri 12/05/23 08:15	Fri 12/05/23 08:30	O Galeboe,O Chakama	
3792				Carry Out Electrical Isolation	0.5 hrs	3791	Fri 12/05/23 08:30	Fri 12/05/23 09:00	O Galeboe,O Chakama	
3793				Conduct Risk Assessment	0.25 hrs	3792	Fri 12/05/23 09:00	Fri 12/05/23 09:15	Electrical Test,O Galeboe,O Chakama	
3794				Strip Breaker And Lubricate Moving Parts	2.5 hrs	3793	Fri 12/05/23 09:15	Fri 12/05/23 11:45	Electrical Test	
3795				Test Spring Rewind Motor& Limit Switches	2.5 hrs	3794	Fri 12/05/23 11:45	Fri 12/05/23 15:15	Electrical Test	
3796				Check Ysf6 Chamber For Leaks	1 hr	3795	Fri 12/05/23 15:15	Fri 12/05/23 16:15	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3797				Check If Trip Supervisory Relay Resets	0.25 hrs	3796	Fri 12/05/23 16:15	Fri 12/05/23 16:30	Electrical Test	
3798				Assemble Breaker	25 hrs	3797	Fri 12/05/23 16:30	Mon 15/05/23 10:30	Electrical Test	
3799				Test Breaker With Ductor Tester	0.25 hrs	3798	Mon 15/05/23 10:30	Mon 15/05/23 10:45	Electrical Test	
3800				Install Service Sticker On The Breaker	0.25 hrs	3799	Mon 15/05/23 10:45	Mon 15/05/23 11:00	Electrical Test	
3801				Clear Permit	0.25 hrs	3800	Mon 15/05/23 11:00	Mon 15/05/23 11:15	O Galeboe,O Chakama	
3802				Commission Breaker	1 hr	3801	Mon 15/05/23 11:15	Mon 15/05/23 13:15	Electrical Test,O Galeboe,O Chakama	
3803		14A527NK40700	R363152	BASHUT-0341 - PS 3 SUB 11Kv BOARD - Service YSF6 breakers	12.25 hrs		Fri 12/05/23 08:15	Sat 13/05/23 10:30		
3804				Make Out Permit	0.25 hrs	3790	Fri 12/05/23 08:15	Fri 12/05/23 08:30	Operations	
3805				Accept Permit	0.25 hrs	3804	Fri 12/05/23 08:30	Fri 12/05/23 08:45	O Chakama,O Galeboe	
3806				Carry Out Electrical Isolation	0.5 hrs	3805	Fri 12/05/23 08:45	Fri 12/05/23 09:15	O Chakama,O Galeboe	
3807				Conduct Risk Assessment	0.25 hrs	3806	Fri 12/05/23 09:15	Fri 12/05/23 09:30	O Galeboe,O Chakama,Electrical Test	
3808				Strip Breaker And Lubricate Moving Parts	2.5 hrs	3807	Fri 12/05/23 09:30	Fri 12/05/23 12:00	Electrical Test	
3809				Test Spring Rewind Motor& Limit Switches	2.5 hrs	3808	Fri 12/05/23 12:00	Fri 12/05/23 15:30	Electrical Test	
3810				Check Ysf6 Chamber For Leaks	1 hr	3809	Fri 12/05/23 15:30	Fri 12/05/23 16:30	Electrical Test	
3811				Check If Trip Supervisory Relay Resets	0.25 hrs	3810	Fri 12/05/23 16:30	Fri 12/05/23 16:45	Electrical Test	
3812				Assemble Breaker	3 hrs	3811	Fri 12/05/23 16:45	Sat 13/05/23 08:45	Electrical Test	
3813				Test Breaker With Ductor Tester	0.25 hrs	3812	Sat 13/05/23 08:45	Sat 13/05/23 09:00	Electrical Test	
3814				Install Service Sticker On The Breaker	0.25 hrs	3813	Sat 13/05/23 09:00	Sat 13/05/23 09:15	Electrical Test	
3815				Clear Permit	0.25 hrs	3814	Sat 13/05/23 09:15	Sat 13/05/23 09:30	O Chakama,O Galeboe	
3816				Commission Breaker	1 hr	3815	Sat 13/05/23 09:30	Sat 13/05/23 10:30	O Galeboe,O Chakama,Electrical Test	
3817		14A527ND400702	R363155	BASHUT-0342 - PS 7 SUB 11Kv BOARD - Service YSF6 breakers	12.25 hrs		Fri 12/05/23 08:30	Sat 13/05/23 10:45		
3818				Make Out Permit	0.25 hrs	3804	Fri 12/05/23 08:30	Fri 12/05/23 08:45	Operations	
3819				Accept Permit	0.25 hrs	3818	Fri 12/05/23 08:45	Fri 12/05/23 09:00	O Chakama,O Galeboe	
3820				Carry Out Electrical Isolation	0.5 hrs	3819	Fri 12/05/23 09:00	Fri 12/05/23 09:30	O Chakama,O Galeboe	
3821				Conduct Risk Assessment	0.25 hrs	3820	Fri 12/05/23 09:30	Fri 12/05/23 09:45	O Galeboe,O Chakama,Electrical Test	
3822				Strip Breaker And Lubricate Moving Parts	2.5 hrs	3821	Fri 12/05/23 09:45	Fri 12/05/23 13:15	Electrical Test	
3823				Test Spring Rewind Motor& Limit Switches	2.5 hrs	3822	Fri 12/05/23 13:15	Fri 12/05/23 15:45	Electrical Test	
3824				Check Ysf6 Chamber For Leaks	1 hr	3823	Fri 12/05/23 15:45	Fri 12/05/23 16:45	Electrical Test	
3825				Check If Trip Supervisory Relay Resets	0.25 hrs	3824	Fri 12/05/23 16:45	Fri 12/05/23 17:00	Electrical Test	
3826				Assemble Breaker	3 hrs	3825	Fri 12/05/23 17:00	Sat 13/05/23 09:00	Electrical Test	
3827				Test Breaker With Ductor Tester	0.25 hrs	3826	Sat 13/05/23 09:00	Sat 13/05/23 09:15	Electrical Test	
3828				Install Service Sticker On The Breaker	0.25 hrs	3827	Sat 13/05/23 09:15	Sat 13/05/23 09:30	Electrical Test	
3829				Clear Permit	0.25 hrs	3828	Sat 13/05/23 09:30	Sat 13/05/23 09:45	O Chakama,O Galeboe	
3830				Commission Breaker	1 hr	3829	Sat 13/05/23 09:45	Sat 13/05/23 10:45	O Galeboe,O Chakama,Electrical Test	
3831		85BT25	R357343	BASHUT-0343 - TRANSFORMER NEC - Purify transformer oil & seal oil leaks	19.5 hrs		Tue 09/05/23 11:15	Thu 11/05/23 10:45		
3832				Make Out Permit	0.25 hrs	3489,348	Tue 09/05/23 11:15	Tue 09/05/23 11:30	Operations	
3833				Accept Permit	0.25 hrs	3832	Tue 09/05/23 11:30	Tue 09/05/23 11:45	O Galeboe,O Chakama	
3834				Isolate Transformer If Necessary	0.25 hrs	3833	Tue 09/05/23 11:45	Tue 09/05/23 12:00	O Galeboe,O Chakama	
3835				Connect Oil Purifying Machine For Contractor	0.5 hrs	3834	Tue 09/05/23 13:00	Tue 09/05/23 13:30	O Galeboe,O Chakama	
3836				Purify Transformer Oil	8 hrs	3835	Tue 09/05/23 13:30	Wed 10/05/23 10:30	Total Safety	
3837				Change Silica Gel	0.5 hrs	3836	Wed 10/05/23 10:30	Wed 10/05/23 11:00	Total Safety	
3838				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3837	Wed 10/05/23 11:00	Wed 10/05/23 17:00	Total Safety	
3839				Take Oil Sample After Purifying	2.5 hrs	3838	Wed 10/05/23 17:00	Thu 11/05/23 08:30	Total Safety	
3840				Bleed The Transformer To Remove Trapped Air	1 hr	3839	Thu 11/05/23 08:30	Thu 11/05/23 09:30	Total Safety	
3841				Power Up Transformer Once Bucholz Is Reset	1 hr	3840	Thu 11/05/23 09:30	Thu 11/05/23 10:30	O Galeboe,O Chakama	
3842				Clear Permit	0.25 hrs	3841	Thu 11/05/23 10:30	Thu 11/05/23 10:45	O Galeboe,O Chakama	
3843		85BT10	R357346	BASHUT-0344 - TRANSFORMER SALT WORKSHOP - Purify transformer oil & seal oil leaks	19 hrs		Tue 09/05/23 11:45	Thu 11/05/23 10:45		
3844				Make Out Permit	0.25 hrs	3833	Tue 09/05/23 11:45	Tue 09/05/23 12:00	Operations	
3845				Accept Permit	0.25 hrs	3844	Tue 09/05/23 13:00	Tue 09/05/23 13:15	O Galeboe,O Chakama	
3846				Isolate Transformer If Necessary	0.25 hrs	3845	Tue 09/05/23 13:15	Tue 09/05/23 13:30	O Galeboe,O Chakama	
3847				Connect Oil Purifying Machine For Contractor	0.5 hrs	3846	Tue 09/05/23 13:30	Tue 09/05/23 14:00	O Galeboe,O Chakama	
3848				Purify Transformer Oil	8 hrs	3847	Tue 09/05/23 14:00	Wed 10/05/23 11:00	Total Safety	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3849				Change Silica Gel	0.5 hrs	3848	Wed 10/05/23 11:00	Wed 10/05/23 11:30	Total Safety	
3850				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3849	Wed 10/05/23 11:30	Wed 10/05/23 17:30	Total Safety	
3851				Take Oil Sample After Purifying	2 hrs	3850	Wed 10/05/23 17:30	Thu 11/05/23 08:30	Total Safety	
3852				Bleed The Transformer To Remove Trapped Air	1 hr	3851	Thu 11/05/23 08:30	Thu 11/05/23 09:30	Total Safety	
3853				Power Up Transformer Once Bucholz Is Reset	1 hr	3852	Thu 11/05/23 09:30	Thu 11/05/23 10:30	O Galeboe,O Chakama	
3854				Clear Permit	0.25 hrs	3853	Thu 11/05/23 10:30	Thu 11/05/23 10:45	O Galeboe,O Chakama	
3855		85BT01	R357352	BASHUT-0345 - TRANSFORMER T1 - Purify Transformer oil & seal oil leaks	36 hrs		Tue 09/05/23 12:00	Sat 13/05/23 08:00		
3856				Make Out Permit	0.5 hrs	3844	Tue 09/05/23 12:00	Tue 09/05/23 13:30	Operations	
3857				Accept Permit	0.25 hrs	3854,3855	Thu 11/05/23 10:45	Thu 11/05/23 11:00	O Galeboe,O Chakama	
3858				Isolate Transformer If Necessary	0.25 hrs	3857	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Galeboe,O Chakama	
3859				Connect Oil Purifying Machine For Contractor	0.5 hrs	3858	Thu 11/05/23 11:15	Thu 11/05/23 11:45	O Galeboe,O Chakama	
3860				Purify Transformer Oil	8 hrs	3859	Thu 11/05/23 11:45	Fri 12/05/23 09:45	Total Safety	
3861				Change Silica Gel	0.5 hrs	3860	Fri 12/05/23 09:45	Fri 12/05/23 10:15	Total Safety	
3862				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3861	Fri 12/05/23 10:15	Fri 12/05/23 16:15	Total Safety	
3863				Take Oil Sample After Purifying	0.5 hrs	3862	Fri 12/05/23 16:15	Fri 12/05/23 16:45	Total Safety	
3864				Bleed The Transformer To Remove Trapped Air	1 hr	3863	Fri 12/05/23 16:45	Fri 12/05/23 17:45	Total Safety	
3865				Power Up Transformer Once Bucholz Is Reset	1 hr	3864	Fri 12/05/23 17:45	Sat 13/05/23 07:45	O Galeboe,O Chakama	
3866				Clear Permit	0.25 hrs	3865	Sat 13/05/23 07:45	Sat 13/05/23 08:00	O Galeboe,O Chakama	
3867		85BT04	R357354	BASHUT-0346 - TRANSFORMER T4 - Purify transformer oil & seal oil leaks	34.25 hrs		Sat 13/05/23 08:00	Tue 16/05/23 13:15		
3868				Make Out Permit	0.25 hrs	3866	Sat 13/05/23 08:00	Sat 13/05/23 08:15	Operations	
3869				Accept Permit	0.25 hrs	3868	Sat 13/05/23 08:15	Sat 13/05/23 08:30	O Galeboe,O Chakama	
3870				Isolate Transformer If Necessary	0.25 hrs	3869	Sat 13/05/23 08:30	Sat 13/05/23 08:45	O Galeboe,O Chakama	
3871				Connect Oil Purifying Machine For Contractor	0.5 hrs	3870	Sat 13/05/23 08:45	Sat 13/05/23 09:15	O Galeboe,O Chakama	
3872				Purify Transformer Oil	24.75 hrs	3871	Sat 13/05/23 09:15	Mon 15/05/23 15:00	Total Safety	
3873				Change Silica Gel	0.5 hrs	3872	Mon 15/05/23 15:00	Mon 15/05/23 15:30	Total Safety	
3874				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3873	Mon 15/05/23 15:30	Tue 16/05/23 09:30	Total Safety	
3875				Take Oil Sample After Purifying	0.5 hrs	3874	Tue 16/05/23 09:30	Tue 16/05/23 10:00	Total Safety	
3876				Bleed The Transformer To Remove Trapped Air	1 hr	3875	Tue 16/05/23 10:00	Tue 16/05/23 11:00	Total Safety	
3877				Power Up Transformer Once Bucholz Is Reset	1 hr	3876	Tue 16/05/23 11:00	Tue 16/05/23 12:00	O Galeboe,O Chakama	
3878				Clear Permit	0.25 hrs	3877	Tue 16/05/23 12:00	Tue 16/05/23 13:15	O Galeboe,O Chakama	
3879		85BT05	R357357	BASHUT-0347 - TRANSFORMER T5 - Purify transformer oil & seal oil leaks	17.5 hrs		Tue 16/05/23 13:15	Thu 18/05/23 09:45		
3880				Make Out Permit	0.25 hrs	3878	Tue 16/05/23 13:15	Tue 16/05/23 13:30	Operations	
3881				Accept Permit	0.25 hrs	3880	Tue 16/05/23 13:30	Tue 16/05/23 13:45	O Galeboe,O Chakama	
3882				Isolate Transformer If Necessary	0.25 hrs	3881	Tue 16/05/23 13:45	Tue 16/05/23 14:00	O Galeboe,O Chakama	
3883				Connect Oil Purifying Machine For Contractor	0.5 hrs	3882	Tue 16/05/23 14:00	Tue 16/05/23 14:30	O Galeboe,O Chakama	
3884				Purify Transformer Oil	8 hrs	3883	Tue 16/05/23 14:30	Wed 17/05/23 11:30	Total Safety	
3885				Change Silica Gel	0.5 hrs	3884	Wed 17/05/23 11:30	Wed 17/05/23 12:00	Total Safety	
3886				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3885	Wed 17/05/23 12:00	Wed 17/05/23 18:00	Total Safety	
3887				Take Oil Sample After Purifying	0.5 hrs	3886	Wed 17/05/23 18:00	Thu 18/05/23 07:30	Total Safety	
3888				Bleed The Transformer To Remove Trapped Air	1 hr	3887	Thu 18/05/23 07:30	Thu 18/05/23 08:30	Total Safety	
3889				Power Up Transformer Once Bucholz Is Reset	1 hr	3888	Thu 18/05/23 08:30	Thu 18/05/23 09:30	O Galeboe,O Chakama	
3890				Clear Permit	0.25 hrs	3889	Thu 18/05/23 09:30	Thu 18/05/23 09:45	O Galeboe,O Chakama	
3891		85BT07	R363288	BASHUT-0348 - TRANSFORMER T7 - Purify transformer oil & seal oil leaks	26.25 hrs		Sat 06/05/23 10:00	Mon 08/05/23 17:15		
3892				Make Out Permit	0.25 hrs		Sat 06/05/23 10:00	Sat 06/05/23 10:15	Operations	
3893				Accept Permit	0.25 hrs	3892	Sat 06/05/23 10:15	Sat 06/05/23 10:30	O Galeboe,O Chakama	
3894				Isolate Transformer If Necessary	0.25 hrs	3893	Sat 06/05/23 10:30	Sat 06/05/23 10:45	O Galeboe,O Chakama	
3895				Connect Oil Purifying Machine For Contractor	0.5 hrs	3894	Sat 06/05/23 10:45	Sat 06/05/23 11:15	O Galeboe,O Chakama	
3896				Purify Transformer Oil	8 hrs	3895	Sat 06/05/23 11:15	Sun 07/05/23 09:15	Total Safety	
3897				Change Silica Gel	9.25 hrs	3896	Sun 07/05/23 09:15	Mon 08/05/23 08:30	Total Safety	
3898				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3897	Mon 08/05/23 08:30	Mon 08/05/23 14:30	Total Safety	
3899				Take Oil Sample After Purifying	0.5 hrs	3898	Mon 08/05/23 14:30	Mon 08/05/23 15:00	Total Safety	
3900				Bleed The Transformer To Remove Trapped Air	1 hr	3899	Mon 08/05/23 15:00	Mon 08/05/23 16:00	Total Safety	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3901				Power Up Transformer Once Bucholz Is Reset	1 hr	3900	Mon 08/05/23 16:00	Mon 08/05/23 17:00	O Galeboe,O Chakama	
3902				Clear Permit	0.25 hrs	3901	Mon 08/05/23 17:00	Mon 08/05/23 17:15	O Galeboe,O Chakama	
3903		85BT08	R357360	BASHUT-0349 - TRANSFORMER T8 - Purify transformer oil & seal oil leaks	48.5 hrs		Mon 08/05/23 17:15	Sat 13/05/23 15:45		
3904				Make Out Permit	0.25 hrs	3902	Mon 08/05/23 17:15	Mon 08/05/23 17:30	Operations	
3905				Accept Permit	20.75 hrs	3904	Mon 08/05/23 17:30	Thu 11/05/23 07:15	O Galeboe,O Chakama	
3906				Isolate Transformer If Necessary	0.25 hrs	3905	Thu 11/05/23 07:15	Thu 11/05/23 07:30	O Galeboe,O Chakama	
3907				Connect Oil Purifying Machine For Contractor	11 hrs	3906	Thu 11/05/23 07:30	Fri 12/05/23 08:30	O Galeboe,O Chakama	
3908				Purify Transformer Oil	8 hrs	3907	Fri 12/05/23 08:30	Fri 12/05/23 17:30	Total Safety	
3909				Change Silica Gel	0.5 hrs	3908	Fri 12/05/23 17:30	Fri 12/05/23 18:00	Total Safety	
3910				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3909	Fri 12/05/23 18:00	Sat 13/05/23 12:00	Total Safety	
3911				Take Oil Sample After Purifying	0.5 hrs	3910	Sat 13/05/23 12:00	Sat 13/05/23 13:30	Total Safety	
3912				Bleed The Transformer To Remove Trapped Air	1 hr	3911	Sat 13/05/23 13:30	Sat 13/05/23 14:30	Total Safety	
3913				Power Up Transformer Once Bucholz Is Reset	1 hr	3912	Sat 13/05/23 14:30	Sat 13/05/23 15:30	O Galeboe,O Chakama	
3914				Clear Permit	0.25 hrs	3913	Sat 13/05/23 15:30	Sat 13/05/23 15:45	O Galeboe,O Chakama	
3915		85BT09	R359089	BASHUT-0350 - TRANSFORMER T9 - Purify transformer oil & seal oil leaks	17.5 hrs		Mon 08/05/23 17:30	Wed 10/05/23 15:00		
3916				Make Out Permit	0.25 hrs	3904	Mon 08/05/23 17:30	Mon 08/05/23 17:45	Operations	
3917				Accept Permit	0.25 hrs	3916	Mon 08/05/23 17:45	Mon 08/05/23 18:00	O Galeboe,O Chakama	
3918				Isolate Transformer If Necessary	0.25 hrs	3917	Mon 08/05/23 18:00	Tue 09/05/23 07:15	O Galeboe,O Chakama	
3919				Connect Oil Purifying Machine For Contractor	0.5 hrs	3918	Tue 09/05/23 07:15	Tue 09/05/23 07:45	O Galeboe,O Chakama	
3920				Purify Transformer Oil	8 hrs	3919	Tue 09/05/23 07:45	Tue 09/05/23 16:45	Total Safety	
3921				Change Silica Gel	0.5 hrs	3920	Tue 09/05/23 16:45	Tue 09/05/23 17:15	Total Safety	
3922				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3921	Tue 09/05/23 17:15	Wed 10/05/23 11:15	Total Safety	
3923				Take Oil Sample After Purifying	0.5 hrs	3922	Wed 10/05/23 11:15	Wed 10/05/23 11:45	Total Safety	
3924				Bleed The Transformer To Remove Trapped Air	1 hr	3923	Wed 10/05/23 11:45	Wed 10/05/23 13:45	Total Safety	
3925				Power Up Transformer Once Bucholz Is Reset	1 hr	3924	Wed 10/05/23 13:45	Wed 10/05/23 14:45	O Galeboe,O Chakama	
3926				Clear Permit	0.25 hrs	3925	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
3927		85BT10	R357363	BASHUT-0351 - TRANSFORMER T10 - Purify transformer oil & seal oil leaks	17.75 hrs		Thu 11/05/23 10:45	Sat 13/05/23 08:30		
3928				Make Out Permit	0.25 hrs	3842	Thu 11/05/23 10:45	Thu 11/05/23 11:00	Operations	
3929				Accept Permit	0.5 hrs	3928	Thu 11/05/23 11:00	Thu 11/05/23 11:30	O Galeboe,O Chakama	
3930				Isolate Transformer If Necessary	0.25 hrs	3929	Thu 11/05/23 11:30	Thu 11/05/23 11:45	O Galeboe,O Chakama	
3931				Connect Oil Purifying Machine For Contractor	0.5 hrs	3930	Thu 11/05/23 11:45	Thu 11/05/23 13:15	O Galeboe,O Chakama	
3932				Purify Transformer Oil	8 hrs	3931	Thu 11/05/23 13:15	Fri 12/05/23 10:15	Total Safety	
3933				Change Silica Gel	0.5 hrs	3932	Fri 12/05/23 10:15	Fri 12/05/23 10:45	Total Safety	
3934				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	3933	Fri 12/05/23 10:45	Fri 12/05/23 16:45	Total Safety	
3935				Take Oil Sample After Purifying	0.5 hrs	3934	Fri 12/05/23 16:45	Fri 12/05/23 17:15	Total Safety	
3936				Bleed The Transformer To Remove Trapped Air	1 hr	3935	Fri 12/05/23 17:15	Sat 13/05/23 07:15	Total Safety	
3937				Power Up Transformer Once Bucholz Is Reset	1 hr	3936	Sat 13/05/23 07:15	Sat 13/05/23 08:15	O Galeboe,O Chakama	
3938				Clear Permit	0.25 hrs	3937	Sat 13/05/23 08:15	Sat 13/05/23 08:30	O Galeboe,O Chakama	
3939		85BT11	R357366	BASHUT- 0352 - TRANSFORMER T11 - Purify transformer oil & seal oil leaks	17.5 hrs		Thu 11/05/23 10:45	Sat 13/05/23 08:15		
3940				Make Out Permit	0.25 hrs	3854	Thu 11/05/23 10:45	Thu 11/05/23 11:00	Operations	
3941				Accept Permit	0.25 hrs	3940	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Galeboe,O Chakama	
3942				Isolate Transformer If Necessary	0.25 hrs	3941	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Galeboe,O Chakama	
3943				Connect Oil Purifying Machine For Contractor	0.5 hrs	3942	Thu 11/05/23 11:30	Thu 11/05/23 12:00	O Galeboe,O Chakama	
3944				Purify Transformer Oil	8 hrs	3943	Thu 11/05/23 13:00	Fri 12/05/23 10:00	Total Safety	
3945				Change Silica Gel	0.5 hrs	3944	Fri 12/05/23 10:00	Fri 12/05/23 10:30	Total Safety	
3946				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3945	Fri 12/05/23 10:30	Fri 12/05/23 16:30	Total Safety	
3947				Take Oil Sample After Purifying	0.5 hrs	3946	Fri 12/05/23 16:30	Fri 12/05/23 17:00	Total Safety	
3948				Bleed The Transformer To Remove Trapped Air	1 hr	3947	Fri 12/05/23 17:00	Fri 12/05/23 18:00	Total Safety	
3949				Power Up Transformer Once Bucholz Is Reset	1 hr	3948	Fri 12/05/23 18:00	Sat 13/05/23 08:00	O Galeboe,O Chakama	
3950				Clear Permit	0.25 hrs	3949	Sat 13/05/23 08:00	Sat 13/05/23 08:15	O Galeboe,O Chakama	
3951		85BT12	R357370	BASHUT-0353 - TRANSFORMER T12 - Purify transformer oil & seal oil leaks	37.5 hrs		Sat 13/05/23 08:00	Tue 16/05/23 16:30		
3952				Make Out Permit	20.25 hrs	3866	Sat 13/05/23 08:00	Mon 15/05/23 08:15	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
3953				Accept Permit	0.25 hrs	3952	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Galeboe,O Chakama	
3954				Isolate Transformer If Necessary	0.25 hrs	3953	Mon 15/05/23 08:30	Mon 15/05/23 08:45	O Galeboe,O Chakama	
3955				Connect Oil Purifying Machine For Contractor	0.5 hrs	3954	Mon 15/05/23 08:45	Mon 15/05/23 09:15	O Galeboe,O Chakama	
3956				Purify Transformer Oil	8 hrs	3955	Mon 15/05/23 09:15	Tue 16/05/23 07:15	Total Safety	
3957				Change Silica Gel	0.5 hrs	3956	Tue 16/05/23 07:15	Tue 16/05/23 07:45	Total Safety	
3958				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3957	Tue 16/05/23 07:45	Tue 16/05/23 13:45	Total Safety	
3959				Take Oil Sample After Purifying	0.5 hrs	3958	Tue 16/05/23 13:45	Tue 16/05/23 14:15	Total Safety	
3960				Bleed The Transformer To Remove Trapped Air	1 hr	3959	Tue 16/05/23 14:15	Tue 16/05/23 15:15	Total Safety	
3961				Power Up Transformer Once Bucholz Is Reset	1 hr	3960	Tue 16/05/23 15:15	Tue 16/05/23 16:15	O Galeboe,O Chakama	
3962				Clear Permit	0.25 hrs	3961	Tue 16/05/23 16:15	Tue 16/05/23 16:30	O Galeboe,O Chakama	
3963		85BT13	R357372	BASHUT-0354 - TRANSFORMER T13 - Purify transformer oil & seal oil leaks	17.5 hrs		Tue 16/05/23 13:15	Thu 18/05/23 09:45		
3964				Make Out Permit	0.25 hrs	3878	Tue 16/05/23 13:15	Tue 16/05/23 13:30	Operations	
3965				Accept Permit	0.25 hrs	3964	Tue 16/05/23 13:30	Tue 16/05/23 13:45	O Chakama,O Galeboe	
3966				Isolate Transformer If Necessary	0.25 hrs	3965	Tue 16/05/23 13:45	Tue 16/05/23 14:00	O Chakama,O Galeboe	
3967				Connect Oil Purifying Machine For Contractor	0.5 hrs	3966	Tue 16/05/23 14:00	Tue 16/05/23 14:30	O Chakama,O Galeboe	
3968				Purify Transformer Oil	8 hrs	3967	Tue 16/05/23 14:30	Wed 17/05/23 11:30	Total Safety	
3969				Change Silica Gel	0.5 hrs	3968	Wed 17/05/23 11:30	Wed 17/05/23 12:00	Total Safety	
3970				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3969	Wed 17/05/23 12:00	Wed 17/05/23 18:00	Total Safety	
3971				Take Oil Sample After Purifying	0.5 hrs	3970	Wed 17/05/23 18:00	Thu 18/05/23 07:30	Total Safety	
3972				Bleed The Transformer To Remove Trapped Air	1 hr	3971	Thu 18/05/23 07:30	Thu 18/05/23 08:30	Total Safety	
3973				Power Up Transformer Once Bucholz Is Reset	1 hr	3972	Thu 18/05/23 08:30	Thu 18/05/23 09:30	O Chakama,O Galeboe	
3974				Clear Permit	0.25 hrs	3973	Thu 18/05/23 09:30	Thu 18/05/23 09:45	O Chakama,O Galeboe	
3975		85BT14	R357375	BASHUT-0355 - TRANSFORMER T14 - Purify Transformer oil & seal oil leaks	37.75 hrs		Thu 11/05/23 10:45	Mon 15/05/23 08:30		
3976				Make Out Permit	0.25 hrs	3854	Thu 11/05/23 10:45	Thu 11/05/23 11:00	Operations	
3977				Accept Permit	0.25 hrs	3976	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Chakama,O Galeboe	
3978				Isolate Transformer If Necessary	0.25 hrs	3977	Thu 11/05/23 11:15	Thu 11/05/23 11:30	O Chakama,O Galeboe	
3979				Connect Oil Purifying Machine For Contractor	0.5 hrs	3978	Thu 11/05/23 11:30	Thu 11/05/23 12:00	O Chakama,O Galeboe	
3980				Purify Transformer Oil	8 hrs	3979	Thu 11/05/23 13:00	Fri 12/05/23 10:00	Total Safety	
3981				Change Silica Gel	0.5 hrs	3980	Fri 12/05/23 10:00	Fri 12/05/23 10:30	Total Safety	
3982				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3981	Fri 12/05/23 10:30	Fri 12/05/23 16:30	Total Safety	
3983				Take Oil Sample After Purifying	0.5 hrs	3982	Fri 12/05/23 16:30	Fri 12/05/23 17:00	Total Safety	
3984				Bleed The Transformer To Remove Trapped Air	1 hr	3983	Fri 12/05/23 17:00	Fri 12/05/23 18:00	Total Safety	
3985				Power Up Transformer Once Bucholz Is Reset	21.25 hrs	3984	Sat 13/05/23 07:00	Mon 15/05/23 08:15	O Chakama,O Galeboe	
3986				Clear Permit	0.25 hrs	3985	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Chakama,O Galeboe	
3987		85BT19	R363290	BASHUT-0356 - TRANSFORMER T19 - Purify transformer oil & seal oil leaks	17.5 hrs		Mon 15/05/23 08:30	Tue 16/05/23 17:00		
3988				Accept Permit	0.25 hrs	3986	Mon 15/05/23 08:30	Mon 15/05/23 08:45	Operations	
3989					0.25 hrs	3988	Mon 15/05/23 08:45	Mon 15/05/23 09:00	O Chakama,O Galeboe	
3990				Isolate Transformer If Necessary	0.25 hrs	3989	Mon 15/05/23 09:00	Mon 15/05/23 09:15	O Chakama,O Galeboe	
3991				Connect Oil Purifying Machine For Contractor	0.5 hrs	3990	Mon 15/05/23 09:15	Mon 15/05/23 09:45	O Chakama,O Galeboe	
3992				Purify Transformer Oil	8 hrs	3991	Mon 15/05/23 09:45	Tue 16/05/23 07:45	Total Safety	
3993				Change Silica Gel	0.5 hrs	3992	Tue 16/05/23 07:45	Tue 16/05/23 08:15	Total Safety	
3994				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	3993	Tue 16/05/23 08:15	Tue 16/05/23 14:15	Total Safety	
3995				Take Oil Sample After Purifying	0.5 hrs	3994	Tue 16/05/23 14:15	Tue 16/05/23 14:45	Total Safety	
3996				Bleed The Transformer To Remove Trapped Air	1 hr	3995	Tue 16/05/23 14:45	Tue 16/05/23 15:45	Total Safety	
3997				Power Up Transformer Once Bucholz Is Reset	1 hr	3996	Tue 16/05/23 15:45	Tue 16/05/23 16:45	O Chakama,O Galeboe	
3998				Clear Permit	0.25 hrs	3997	Tue 16/05/23 16:45	Tue 16/05/23 17:00	O Chakama,O Galeboe	
3999		85BT20	R357380	BASHUT-0357 - TRANSFORMER T20 - Purify transformer oil & seal oil leaks	17.5 hrs		Tue 16/05/23 17:00	Thu 18/05/23 14:30		
4000				Make Out Permit	0.25 hrs	3998	Tue 16/05/23 17:00	Tue 16/05/23 17:15	Operations	
4001				Accept Permit	0.25 hrs	4000	Tue 16/05/23 17:15	Tue 16/05/23 17:30	O Galeboe,O Chakama	
4002				Isolate Transformer If Necessary	0.25 hrs	4001	Tue 16/05/23 17:30	Tue 16/05/23 17:45	O Galeboe,O Chakama	
4003				Connect Oil Purifying Machine For Contractor	0.5 hrs	4002	Tue 16/05/23 17:45	Wed 17/05/23 07:15	O Galeboe,O Chakama	
4004				Purify Transformer Oil	8 hrs	4003	Wed 17/05/23 07:15	Wed 17/05/23 16:15	Total Safety	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4005				Change Silica Gel	0.5 hrs	4004	Wed 17/05/23 16:15	Wed 17/05/23 16:45	Total Safety	
4006				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	4005	Wed 17/05/23 16:45	Thu 18/05/23 10:45	Total Safety	
4007				Take Oil Sample After Purifying	0.5 hrs	4006	Thu 18/05/23 10:45	Thu 18/05/23 11:15	Total Safety	
4008				Bleed The Transformer To Remove Trapped Air	1 hr	4007	Thu 18/05/23 11:15	Thu 18/05/23 13:15	Total Safety	
4009				Power Up Transformer Once Bucholz Is Reset	1 hr	4008	Thu 18/05/23 13:15	Thu 18/05/23 14:15	O Galeboe,O Chakama	
4010				Clear Permit	0.25 hrs	4009	Thu 18/05/23 14:15	Thu 18/05/23 14:30	O Galeboe,O Chakama	
4011		85BT29	R363157	BASHUT-0358 - TRANSFORMER T29 - Purify transformer oil & seal oil leaks	17.5 hrs		Tue 16/05/23 17:15	Thu 18/05/23 14:45		
4012				Make Out Permit	0.25 hrs	4000	Tue 16/05/23 17:15	Tue 16/05/23 17:30	Operations	
4013				Accept Permit	0.25 hrs	4012	Tue 16/05/23 17:30	Tue 16/05/23 17:45	O Chakama,O Galeboe	
4014				Isolate Transformer If Necessary	0.25 hrs	4013	Tue 16/05/23 17:45	Tue 16/05/23 18:00	O Chakama,O Galeboe	
4015				Connect Oil Purifying Machine For Contractor	0.5 hrs	4014	Tue 16/05/23 18:00	Wed 17/05/23 07:30	O Chakama,O Galeboe	
4016				Purify Transformer Oil	8 hrs	4015	Wed 17/05/23 07:30	Wed 17/05/23 16:30	Total Safety	
4017				Change Silica Gel	0.5 hrs	4016	Wed 17/05/23 16:30	Wed 17/05/23 17:00	Total Safety	
4018				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	4017	Wed 17/05/23 17:00	Thu 18/05/23 11:00	Total Safety	
4019				Take Oil Sample After Purifying	0.5 hrs	4018	Thu 18/05/23 11:00	Thu 18/05/23 11:30	Total Safety	
4020				Bleed The Transformer To Remove Trapped Air	1 hr	4019	Thu 18/05/23 11:30	Thu 18/05/23 13:30	Total Safety	
4021				Power Up Transformer Once Bucholz Is Reset	1 hr	4020	Thu 18/05/23 13:30	Thu 18/05/23 14:30	O Chakama,O Galeboe	
4022				Clear Permit	0.25 hrs	4021	Thu 18/05/23 14:30	Thu 18/05/23 14:45	O Chakama,O Galeboe	
4023		85BT101	R357383	BASHUT-0359 - TRANSFORMER T101 - Purify transformer oil & seal oil leaks - PS1	18 hrs		Tue 16/05/23 13:30	Thu 18/05/23 10:30		
4024				Make Out Permit	0.25 hrs	3964	Tue 16/05/23 13:30	Tue 16/05/23 13:45	Operations	
4025				Accept Permit	0.25 hrs	4024	Tue 16/05/23 13:45	Tue 16/05/23 14:00	O Galeboe,O Chakama	
4026				Isolate Transformer If Necessary	0.25 hrs	4025	Tue 16/05/23 14:00	Tue 16/05/23 14:15	O Galeboe,O Chakama	
4027				Connect Oil Purifying Machine For Contractor	0.5 hrs	4026	Tue 16/05/23 14:15	Tue 16/05/23 14:45	O Galeboe,O Chakama	
4028				Purify Transformer Oil	8 hrs	4027	Tue 16/05/23 14:45	Wed 17/05/23 11:45	Total Safety	
4029				Change Silica Gel	0.5 hrs	4028	Wed 17/05/23 11:45	Wed 17/05/23 13:15	Total Safety	
4030				Check Oil Leaks On Hv& Lv Bushing And Seal	5 hrs	4029	Wed 17/05/23 13:15	Thu 18/05/23 07:15	Total Safety	
4031				Take Oil Sample After Purifying	1 hr	4030	Thu 18/05/23 07:15	Thu 18/05/23 08:15	Total Safety	
4032				Bleed The Transformer To Remove Trapped Air	1 hr	4031	Thu 18/05/23 08:15	Thu 18/05/23 09:15	Total Safety	
4033				Power Up Transformer Once Bucholz Is Reset	1 hr	4032	Thu 18/05/23 09:15	Thu 18/05/23 10:15	O Galeboe,O Chakama	
4034				Clear Permit	0.25 hrs	4033	Thu 18/05/23 10:15	Thu 18/05/23 10:30	O Galeboe,O Chakama	
4035		85BT102	R357386	BASHUT-0360 - TRANSFORMER T102 - Purify transformer oil & seal oil leaks - PS 1	38 hrs		Sat 13/05/23 08:15	Tue 16/05/23 17:15		
4036				Make Out Permit	20 hrs	3950	Sat 13/05/23 08:15	Mon 15/05/23 08:15	Operations	
4037				Accept Permit	0.25 hrs	4036	Mon 15/05/23 08:15	Mon 15/05/23 08:30	O Galeboe,O Chakama	
4038				Isolate Transformer If Necessary	0.25 hrs	4037	Mon 15/05/23 08:30	Mon 15/05/23 08:45	O Galeboe,O Chakama	
4039				Connect Oil Purifying Machine For Contractor	0.5 hrs	4038	Mon 15/05/23 08:45	Mon 15/05/23 09:15	O Galeboe,O Chakama	
4040				Purify Transformer Oil	8 hrs	4039	Mon 15/05/23 09:15	Tue 16/05/23 07:15	Total Safety	
4041				Change Silica Gel	1.25 hrs	4040	Tue 16/05/23 07:15	Tue 16/05/23 08:30	Total Safety	
4042				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4041	Tue 16/05/23 08:30	Tue 16/05/23 14:30	Total Safety	
4043				Take Oil Sample After Purifying	0.5 hrs	4042	Tue 16/05/23 14:30	Tue 16/05/23 15:00	Total Safety	
4044				Bleed The Transformer To Remove Trapped Air	1 hr	4043	Tue 16/05/23 15:00	Tue 16/05/23 16:00	Total Safety	
4045				Power Up Transformer Once Bucholz Is Reset	1 hr	4044	Tue 16/05/23 16:00	Tue 16/05/23 17:00	O Galeboe,O Chakama	
4046				Clear Permit	0.25 hrs	4045	Tue 16/05/23 17:00	Tue 16/05/23 17:15	O Galeboe,O Chakama	
4047		85BT103	R357387	BASHUT-0361 - TRANSFORMER T103 - Purify transformer oil & seal oil leaks - PS2	17.5 hrs		Tue 16/05/23 17:15	Thu 18/05/23 14:45		
4048				Make Out Permit	0.25 hrs	4046	Tue 16/05/23 17:15	Tue 16/05/23 17:30	Operations	
4049				Accept Permit	0.25 hrs	4048	Tue 16/05/23 17:30	Tue 16/05/23 17:45	O Galeboe,O Chakama	
4050				Isolate Transformer If Necessary	0.25 hrs	4049	Tue 16/05/23 17:45	Tue 16/05/23 18:00	O Galeboe,O Chakama	
4051				Connect Oil Purifying Machine For Contractor	0.5 hrs	4050	Tue 16/05/23 18:00	Wed 17/05/23 07:30	O Galeboe,O Chakama	
4052				Purify Transformer Oil	8 hrs	4051	Wed 17/05/23 07:30	Wed 17/05/23 16:30	Total Safety	
4053				Change Silica Gel	0.5 hrs	4052	Wed 17/05/23 16:30	Wed 17/05/23 17:00	Total Safety	
4054				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4053	Wed 17/05/23 17:00	Thu 18/05/23 11:00	Total Safety	
4055				Take Oil Sample After Purifying	0.5 hrs	4054	Thu 18/05/23 11:00	Thu 18/05/23 11:30	Total Safety	
4056				Bleed The Transformer To Remove Trapped Air	1 hr	4055	Thu 18/05/23 11:30	Thu 18/05/23 13:30	Total Safety	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4057				Power Up Transformer Once Bucholz Is Reset	1 hr	4056	Thu 18/05/23 13:30	Thu 18/05/23 14:30	O Galeboe,O Chakama	
4058				Clear Permit	0.25 hrs	4057	Thu 18/05/23 14:30	Thu 18/05/23 14:45	O Galeboe,O Chakama	
4059		85BT108	R357389	BASHUT-0362 - TRANSFORMER T108 - Purify transformer oil & seal oil leaks - PS7	17.5 hrs		Tue 16/05/23 17:45	Thu 18/05/23 15:15		
4060				Make Out Permit	0.25 hrs	4049	Tue 16/05/23 17:45	Tue 16/05/23 18:00	Operations	
4061				Accept Permit	0.25 hrs	4060	Tue 16/05/23 18:00	Wed 17/05/23 07:15	O Chakama,O Galeboe	
4062				Isolate Transformer If Necessary	0.25 hrs	4061	Wed 17/05/23 07:15	Wed 17/05/23 07:30	O Chakama,O Galeboe	
4063				Connect Oil Purifying Machine For Contractor	0.5 hrs	4062	Wed 17/05/23 07:30	Wed 17/05/23 08:00	O Chakama,O Galeboe	
4064				Purify Transformer Oil	8 hrs	4063	Wed 17/05/23 08:00	Wed 17/05/23 17:00	Total Safety	
4065				Change Silica Gel	0.5 hrs	4064	Wed 17/05/23 17:00	Wed 17/05/23 17:30	Total Safety	
4066				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4065	Wed 17/05/23 17:30	Thu 18/05/23 11:30	Total Safety	
4067				Take Oil Sample After Purifying	0.5 hrs	4066	Thu 18/05/23 11:30	Thu 18/05/23 12:00	Total Safety	
4068				Bleed The Transformer To Remove Trapped Air	1 hr	4067	Thu 18/05/23 13:00	Thu 18/05/23 14:00	Total Safety	
4069				Power Up Transformer Once Bucholz Is Reset	1 hr	4068	Thu 18/05/23 14:00	Thu 18/05/23 15:00	O Chakama,O Galeboe	
4070				Clear Permit	0.25 hrs	4069	Thu 18/05/23 15:00	Thu 18/05/23 15:15	O Chakama,O Galeboe	
4071		85C DUKW SUB	R363160	BASHUT-0363 - TRANSFORMER DUKWI PUMP - Purify transformer oil & seal oil leaks	17.5 hrs		Tue 16/05/23 18:00	Thu 18/05/23 15:30		
4072				Make Out Permit	0.25 hrs	4060	Tue 16/05/23 18:00	Wed 17/05/23 07:15	Operations	
4073				Accept Permit	0.25 hrs	4072	Wed 17/05/23 07:15	Wed 17/05/23 07:30	O Chakama,O Galeboe	
4074				Isolate Transformer If Necessary	0.25 hrs	4073	Wed 17/05/23 07:30	Wed 17/05/23 07:45	O Chakama,O Galeboe	
4075				Connect Oil Purifying Machine For Contractor	0.5 hrs	4074	Wed 17/05/23 07:45	Wed 17/05/23 08:15	O Chakama,O Galeboe	
4076				Purify Transformer Oil	8 hrs	4075	Wed 17/05/23 08:15	Wed 17/05/23 17:15	Total Safety	
4077				Change Silica Gel	0.5 hrs	4076	Wed 17/05/23 17:15	Wed 17/05/23 17:45	Total Safety	
4078				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4077	Wed 17/05/23 17:45	Thu 18/05/23 11:45	Total Safety	
4079				Take Oil Sample After Purifying	0.5 hrs	4078	Thu 18/05/23 11:45	Thu 18/05/23 13:15	Total Safety	
4080				Bleed The Transformer To Remove Trapped Air	1 hr	4079	Thu 18/05/23 13:15	Thu 18/05/23 14:15	Total Safety	
4081				Power Up Transformer Once Bucholz Is Reset	1 hr	4080	Thu 18/05/23 14:15	Thu 18/05/23 15:15	O Chakama,O Galeboe	
4082				Clear Permit	0.25 hrs	4081	Thu 18/05/23 15:15	Thu 18/05/23 15:30	O Chakama,O Galeboe	
4083		85C ELEC CAM	R363163	BASHUT-0364 - TRANSFORMER LODGE - Purify transformer oil & seal oil leaks	19.5 hrs		Wed 17/05/23 07:15	Thu 18/05/23 17:45		
4084				Make Out Permit	0.25 hrs	4072	Wed 17/05/23 07:15	Wed 17/05/23 07:30	Operations	
4085				Accept Permit	0.25 hrs	4084	Wed 17/05/23 07:30	Wed 17/05/23 07:45	O Chakama,O Galeboe	
4086				Isolate Transformer If Necessary	0.25 hrs	4085	Wed 17/05/23 07:45	Wed 17/05/23 08:00	O Chakama,O Galeboe	
4087				Connect Oil Purifying Machine For Contractor	0.5 hrs	4086	Wed 17/05/23 08:00	Wed 17/05/23 08:30	O Chakama,O Galeboe	
4088				Purify Transformer Oil	8 hrs	4087	Wed 17/05/23 08:30	Wed 17/05/23 17:30	Total Safety	
4089				Change Silica Gel	0.5 hrs	4088	Wed 17/05/23 17:30	Wed 17/05/23 18:00	Total Safety	
4090				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4089	Thu 18/05/23 07:00	Thu 18/05/23 12:00	Total Safety	
4091				Take Oil Sample After Purifying	0.5 hrs	4090	Thu 18/05/23 13:00	Thu 18/05/23 13:30	Total Safety	
4092				Bleed The Transformer To Remove Trapped Air	1 hr	4091	Thu 18/05/23 13:30	Thu 18/05/23 14:30	Total Safety	
4093				Power Up Transformer Once Bucholz Is Reset	1 hr	4092	Thu 18/05/23 14:30	Thu 18/05/23 15:30	O Chakama,O Galeboe	
4094				Clear Permit	2.25 hrs	4093	Thu 18/05/23 15:30	Thu 18/05/23 17:45	O Chakama,O Galeboe	
4095		85C ELEC CAM	R363166	BASHUT-0365 - TRANSFORMER MAIN CAMP - Purify transformer oil & seal oil leaks	35.5 hrs		Sat 06/05/23 10:00	Tue 09/05/23 16:30		
4096				Make Out Permit	18.25 hrs		Sat 06/05/23 10:00	Mon 08/05/23 08:15	Operations	
4097				Accept Permit	0.25 hrs	4096	Mon 08/05/23 08:15	Mon 08/05/23 08:30	O Chakama,O Galeboe	
4098				Isolate Transformer If Necessary	0.25 hrs	4097	Mon 08/05/23 08:30	Mon 08/05/23 08:45	O Chakama,O Galeboe	
4099				Connect Oil Purifying Machine For Contractor	0.5 hrs	4098	Mon 08/05/23 08:45	Mon 08/05/23 09:15	O Chakama,O Galeboe	
4100				Purify Transformer Oil	8 hrs	4099	Mon 08/05/23 09:15	Tue 09/05/23 07:15	Total Safety	
4101				Change Silica Gel	0.5 hrs	4100	Tue 09/05/23 07:15	Tue 09/05/23 07:45	Total Safety	
4102				Check Oil Leaks On Hv & Lv Bushing And Seal	5 hrs	4101	Tue 09/05/23 07:45	Tue 09/05/23 13:45	Total Safety	
4103				Take Oil Sample After Purifying	0.5 hrs	4102	Tue 09/05/23 13:45	Tue 09/05/23 14:15	Total Safety	
4104				Bleed The Transformer To Remove Trapped Air	1 hr	4103	Tue 09/05/23 14:15	Tue 09/05/23 15:15	Total Safety	
4105				Power Up Transformer Once Bucholz Is Reset	1 hr	4104	Tue 09/05/23 15:15	Tue 09/05/23 16:15	O Chakama,O Galeboe	
4106				Clear Permit	0.25 hrs	4105	Tue 09/05/23 16:15	Tue 09/05/23 16:30	O Chakama,O Galeboe	
4107		85C SUB1	R363167	BASHUT-0366 - SUB 1 - Service Ysf6 breaker (Wellfields)	11.75 hrs		Mon 08/05/23 08:15	Tue 09/05/23 10:00		
4108				Make Out Permit	0.25 hrs	4096	Mon 08/05/23 08:15	Mon 08/05/23 08:30	Operations	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4109				Accept Permit	0.25 hrs	4108	Mon 08/05/23 08:30	Mon 08/05/23 08:45	O Galeboe,O Chakama	
4110				Carry Out Electrical Isolation	0.25 hrs	4109	Mon 08/05/23 08:45	Mon 08/05/23 09:00	O Galeboe,O Chakama	
4111				Conduct Risk Assessment	0.5 hrs	4110	Mon 08/05/23 09:00	Mon 08/05/23 09:30	Electrical Test,O Galeboe,O Chakama	
4112				Strip Breaker And Lubricate Moving Parts	4 hrs	4111	Mon 08/05/23 09:30	Mon 08/05/23 14:30	Electrical Test	
4113				Test Spring Rewind Motor & Limit Switches	0.5 hrs	4112	Mon 08/05/23 14:30	Mon 08/05/23 15:00	Electrical Test	
4114				Check Ysf6 Chamber For Leaks	0.5 hrs	4113	Mon 08/05/23 15:00	Mon 08/05/23 15:30	Electrical Test	
4115				Check If Trip Supervisory Relay Resets	0.5 hrs	4114	Mon 08/05/23 15:30	Mon 08/05/23 16:00	Electrical Test	
4116				Assemble Breaker	3 hrs	4115	Mon 08/05/23 16:00	Tue 09/05/23 08:00	Electrical Test	
4117				Test Breaker With Ductor Tester	0.5 hrs	4116	Tue 09/05/23 08:00	Tue 09/05/23 08:30	Electrical Test	
4118				Install Service Sticker On The Breaker	0.25 hrs	4117	Tue 09/05/23 08:30	Tue 09/05/23 08:45	Electrical Test	
4119				Clear Permit	0.25 hrs	4118	Tue 09/05/23 08:45	Tue 09/05/23 09:00	O Galeboe,O Chakama	
4120				Commission Breaker	1 hr	4119	Tue 09/05/23 09:00	Tue 09/05/23 10:00	Electrical Test,O Galeboe,O Chakama	
4121		85C SUB2	R363168	BASHUT-0367 - SUB 2 - Service Ysf6 breaker (Wellfields)	28 hrs		Tue 09/05/23 09:00	Thu 11/05/23 18:00		
4122				Make Out Permit	0.25 hrs	4119	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Operations	
4123				Accept Permit	0.25 hrs	4122	Tue 09/05/23 09:15	Tue 09/05/23 09:30	O Galeboe,O Chakama	
4124				Carry Out Electrical Isolation	0.25 hrs	4123	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Galeboe,O Chakama	
4125				Conduct Risk Assessment	0.5 hrs	4124	Tue 09/05/23 09:45	Tue 09/05/23 10:15	Electrical Test,O Galeboe,O Chakama	
4126				Strip Breaker And Lubricate Moving Parts	4 hrs	4125	Tue 09/05/23 10:15	Tue 09/05/23 15:15	Electrical Test	
4127				Test Spring Rewind Motor & Limit Switches	0.5 hrs	4126	Tue 09/05/23 15:15	Tue 09/05/23 15:45	Electrical Test	
4128				Check Ysf6 Chamber For Leaks	0.5 hrs	4127	Tue 09/05/23 15:45	Tue 09/05/23 16:15	Electrical Test	
4129				Check If Trip Supervisory Relay Resets	0.5 hrs	4128	Tue 09/05/23 16:15	Tue 09/05/23 16:45	Electrical Test	
4130				Assemble Breaker	3 hrs	4129	Tue 09/05/23 16:45	Wed 10/05/23 08:45	Electrical Test	
4131				Test Breaker With Ductor Tester	0.5 hrs	4130	Wed 10/05/23 08:45	Wed 10/05/23 09:15	Electrical Test	
4132				Install Service Sticker On The Breaker	16.5 hrs	4131	Wed 10/05/23 09:15	Thu 11/05/23 16:45	Electrical Test	
4133				Clear Permit	0.25 hrs	4132	Thu 11/05/23 16:45	Thu 11/05/23 17:00	O Galeboe,O Chakama	
4134				Commission Breaker	1 hr	4133	Thu 11/05/23 17:00	Thu 11/05/23 18:00	Electrical Test,O Galeboe,O Chakama	
4135		85C SUB3	R363169	BASHUT-0368 - SUB 3 - Service Ysf6 breaker (Wellfields)	11.75 hrs		Tue 09/05/23 09:15	Wed 10/05/23 11:00		
4136				Make Out Permit	0.25 hrs	4122	Tue 09/05/23 09:15	Tue 09/05/23 09:30	Operations	
4137				Accept Permit	0.25 hrs	4136	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Galeboe,O Chakama	
4138				Carry Out Electrical Isolation	0.25 hrs	4137	Tue 09/05/23 09:45	Tue 09/05/23 10:00	O Galeboe,O Chakama	
4139				Conduct Risk Assessment	0.5 hrs	4138	Tue 09/05/23 10:00	Tue 09/05/23 10:30	Electrical Test,O Galeboe,O Chakama	
4140				Strip Breaker And Lubricate Moving Parts	4 hrs	4139	Tue 09/05/23 10:30	Tue 09/05/23 15:30	Electrical Test	
4141				Test Spring Rewind Motor & Limit Switches	0.5 hrs	4140	Tue 09/05/23 15:30	Tue 09/05/23 16:00	Electrical Test	
4142				Check Ysf6 Chamber For Leaks	0.5 hrs	4141	Tue 09/05/23 16:00	Tue 09/05/23 16:30	Electrical Test	
4143				Check If Trip Supervisory Relay Resets	0.5 hrs	4142	Tue 09/05/23 16:30	Tue 09/05/23 17:00	Electrical Test	
4144				Assemble Breaker	3 hrs	4143	Tue 09/05/23 17:00	Wed 10/05/23 09:00	Electrical Test	
4145				Test Breaker With Ductor Tester	0.5 hrs	4144	Wed 10/05/23 09:00	Wed 10/05/23 09:30	Electrical Test	
4146				Install Service Sticker On The Breaker	0.25 hrs	4145	Wed 10/05/23 09:30	Wed 10/05/23 09:45	Electrical Test	
4147				Clear Permit	0.25 hrs	4146	Wed 10/05/23 09:45	Wed 10/05/23 10:00	O Galeboe,O Chakama	
4148				Commission Breaker	1 hr	4147	Wed 10/05/23 10:00	Wed 10/05/23 11:00	Electrical Test,O Galeboe,O Chakama	
4149		85C SUB4	R363170	BASHUT-0369 - SUB 4 - Service Ysf6 breaker (Wellfields)	11.75 hrs		Mon 08/05/23 08:30	Tue 09/05/23 10:15		
4150				Make Out Permit	0.25 hrs	4108	Mon 08/05/23 08:30	Mon 08/05/23 08:45	Operations	
4151				Accept Permit	0.25 hrs	4150	Mon 08/05/23 08:45	Mon 08/05/23 09:00	O Galeboe,O Chakama	
4152				Carry Out Electrical Isolation	0.25 hrs	4151	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Galeboe,O Chakama	
4153				Conduct Risk Assessment	0.5 hrs	4152	Mon 08/05/23 09:15	Mon 08/05/23 09:45	Electrical Test,O Galeboe,O Chakama	
4154				Strip Breaker And Lubricate Moving Parts	4 hrs	4153	Mon 08/05/23 09:45	Mon 08/05/23 14:45	Electrical Test	
4155				Test Spring Rewind Motor & Limit Switches	0.5 hrs	4154	Mon 08/05/23 14:45	Mon 08/05/23 15:15	Electrical Test	
4156				Check Ysf6 Chamber For Leaks	0.5 hrs	4155	Mon 08/05/23 15:15	Mon 08/05/23 15:45	Electrical Test	
4157				Check If Trip Supervisory Relay Resets	0.5 hrs	4156	Mon 08/05/23 15:45	Mon 08/05/23 16:15	Electrical Test	
4158				Assemble Breaker	3 hrs	4157	Mon 08/05/23 16:15	Tue 09/05/23 08:15	Electrical Test	
4159				Test Breaker With Ductor Tester	0.5 hrs	4158	Tue 09/05/23 08:15	Tue 09/05/23 08:45	Electrical Test	
4160				Install Service Sticker On The Breaker	0.25 hrs	4159	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4161				Clear Permit	0.25 hrs	4160	Tue 09/05/23 09:00	Tue 09/05/23 09:15	O Galeboe,O Chakama	
4162				Commission Breaker	1 hr	4161	Tue 09/05/23 09:15	Tue 09/05/23 10:15	Electrical Test,O Galeboe,O Chakama	
4163		85C SUB5	R363171	BASHUT-0370 - SUB 5 - Service Ysf6 breaker (Wellfields)	11.75 hrs		Mon 08/05/23 08:45	Tue 09/05/23 10:30		
4164				Make Out Permit	0.25 hrs	4150	Mon 08/05/23 08:45	Mon 08/05/23 09:00	Operations	
4165				Accept Permit	0.25 hrs	4164	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Galeboe,O Chakama	
4166				Carry Out Electrical Isolation	0.25 hrs	4165	Mon 08/05/23 09:15	Mon 08/05/23 09:30	O Galeboe,O Chakama	
4167				Conduct Risk Assessment	0.5 hrs	4166	Mon 08/05/23 09:30	Mon 08/05/23 10:00	Electrical Test,O Galeboe,O Chakama	
4168				Strip Breaker And Lubricate Moving Parts	4 hrs	4167	Mon 08/05/23 10:00	Mon 08/05/23 15:00	Electrical Test	
4169				Test Spring Rewind Motor & Limit Switches	0.5 hrs	4168	Mon 08/05/23 15:00	Mon 08/05/23 15:30	Electrical Test	
4170				Check Ysf6 Chamber For Leaks	0.5 hrs	4169	Mon 08/05/23 15:30	Mon 08/05/23 16:00	Electrical Test	
4171				Check If Trip Supervisory Relay Resets	0.5 hrs	4170	Mon 08/05/23 16:00	Mon 08/05/23 16:30	Electrical Test	
4172				Assemble Breaker	3 hrs	4171	Mon 08/05/23 16:30	Tue 09/05/23 08:30	Electrical Test	
4173				Test Breaker With Ductor Tester	0.5 hrs	4172	Tue 09/05/23 08:30	Tue 09/05/23 09:00	Electrical Test	
4174				Install Service Sticker On The Breaker	0.25 hrs	4173	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Electrical Test	
4175				Clear Permit	0.25 hrs	4174	Tue 09/05/23 09:15	Tue 09/05/23 09:30	O Galeboe,O Chakama	
4176				Commission Breaker	1 hr	4175	Tue 09/05/23 09:30	Tue 09/05/23 10:30	Electrical Test,O Galeboe,O Chakama	
4177		85C SUB6	R363173	BASHUT-0371 - SUB 6 - Service Ysf6 breaker (Wellfields)	11.75 hrs		Mon 08/05/23 09:00	Tue 09/05/23 10:45		
4178				Make Out Permit	0.25 hrs	4164	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
4179				Accept Permit	0.25 hrs	4178	Mon 08/05/23 09:15	Mon 08/05/23 09:30	O Galeboe,O Chakama	
4180				Carry Out Electrical Isolation	0.25 hrs	4179	Mon 08/05/23 09:30	Mon 08/05/23 09:45	O Galeboe,O Chakama	
4181				Conduct Risk Assessment	0.5 hrs	4180	Mon 08/05/23 09:45	Mon 08/05/23 10:15	Electrical Test,O Galeboe,O Chakama	
4182				Strip Breaker And Lubricate Moving Parts	4 hrs	4181	Mon 08/05/23 10:15	Mon 08/05/23 15:15	Electrical Test	
4183				Test Spring Rewind Motor& Limit Switches	0.5 hrs	4182	Mon 08/05/23 15:15	Mon 08/05/23 15:45	Electrical Test	
4184				Check Ysf6 Chamber For Leaks	0.5 hrs	4183	Mon 08/05/23 15:45	Mon 08/05/23 16:15	Electrical Test	
4185				Check If Trip Supervisory Relay Resets	0.5 hrs	4184	Mon 08/05/23 16:15	Mon 08/05/23 16:45	Electrical Test	
4186				Assemble Breaker	3 hrs	4185	Mon 08/05/23 16:45	Tue 09/05/23 08:45	Electrical Test	
4187				Test Breaker With Ductor Tester	0.5 hrs	4186	Tue 09/05/23 08:45	Tue 09/05/23 09:15	Electrical Test	
4188				Install Service Sticker On The Breaker	0.25 hrs	4187	Tue 09/05/23 09:15	Tue 09/05/23 09:30	Electrical Test	
4189				Clear Permit	0.25 hrs	4188	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Galeboe,O Chakama	
4190				Commission Breaker	1 hr	4189	Tue 09/05/23 09:45	Tue 09/05/23 10:45	Electrical Test,O Galeboe,O Chakama	
4191		85B527NK20200	R363174	BASHUT-0372 - CARBO SUB 3.3Kv BOARD - Clean Hv cubicles	6.25 hrs		Mon 08/05/23 09:15	Mon 08/05/23 16:30		
4192				Make Out Permit	0.25 hrs	4165	Mon 08/05/23 09:15	Mon 08/05/23 09:30	Operations	
4193				Accept Permit	0.25 hrs	4192	Mon 08/05/23 09:30	Mon 08/05/23 09:45	O Chakama,O Galeboe	
4194				Carry Out Electrical Isolation	0.25 hrs	4193	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Chakama,O Galeboe	
4195				Conduct Risk Assessment	0.25 hrs	4194	Mon 08/05/23 10:00	Mon 08/05/23 10:15	Electrical Test	
4196				Clean Dust From Panel And Cable Spouts	2.5 hrs	4195	Mon 08/05/23 10:15	Mon 08/05/23 13:45	Electrical Test	
4197				Apply Contact Grease On Spout Contacts	2.5 hrs	4196	Mon 08/05/23 13:45	Mon 08/05/23 16:15	Electrical Test	
4198				Clear Permit	0.25 hrs	4197	Mon 08/05/23 16:15	Mon 08/05/23 16:30	O Galeboe,O Chakama,Electrical Test	
4199		85C7NK2010	R363175	BASHUT-0373 - POWER SUB 3.3Kv BOARD - Clean Hv cubicles	6.25 hrs		Mon 08/05/23 09:30	Mon 08/05/23 16:45		
4200				Make Out Permit	0.25 hrs	4192	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Operations	
4201				Accept Permit	0.25 hrs	4200	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Chakama,O Galeboe	
4202				Carry Out Electrical Isolation	0.25 hrs	4201	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Chakama,O Galeboe	
4203				Conduct Risk Assessment	0.25 hrs	4202	Mon 08/05/23 10:15	Mon 08/05/23 10:30	Electrical Test	
4204				Clean Dust From Panel And Cable Spouts	2.5 hrs	4203	Mon 08/05/23 10:30	Mon 08/05/23 14:00	Electrical Test	
4205				Apply Contact Grease On Spout Contacts	2.5 hrs	4204	Mon 08/05/23 14:00	Mon 08/05/23 16:30	Electrical Test	
4206				Clear Permit	0.25 hrs	4205	Mon 08/05/23 16:30	Mon 08/05/23 16:45	O Galeboe,O Chakama,Electrical Test	
4207		85B7NK4000	R363176	BASHUT-0374 - POWER SUB 11Kv BOARD - Clean Hv cubicles	6.25 hrs		Mon 08/05/23 09:45	Mon 08/05/23 17:00		
4208				Make Out Permit	0.25 hrs	4200	Mon 08/05/23 09:45	Mon 08/05/23 10:00	Operations	
4209				Accept Permit	0.25 hrs	4208	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Chakama,O Galeboe	
4210				Carry Out Electrical Isolation	0.25 hrs	4209	Mon 08/05/23 10:15	Mon 08/05/23 10:30	O Chakama,O Galeboe	
4211				Conduct Risk Assessment	0.25 hrs	4210	Mon 08/05/23 10:30	Mon 08/05/23 10:45	Electrical Test	
4212				Clean Dust From Panel And Cable Spouts	2.5 hrs	4211	Mon 08/05/23 10:45	Mon 08/05/23 14:15	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4213				Apply Contact Grease On Spout Contacts	2.5 hrs	4212	Mon 08/05/23 14:15	Mon 08/05/23 16:45	Electrical Test	
4214				Clear Permit	0.25 hrs	4213	Mon 08/05/23 16:45	Mon 08/05/23 17:00	O Galeboe,O Chakama,Electrical Test	
4215		14A527ND40106	R363177	BASHUT-0375 - PS 1 SUB 11Kv BOARD - Clean Hv cubicles	7.75 hrs		Mon 08/05/23 17:00	Tue 09/05/23 14:45		
4216				Make Out Permit	0.25 hrs	4214	Mon 08/05/23 17:00	Mon 08/05/23 17:15	Operations	
4217				Accept Permit	0.25 hrs	4216	Mon 08/05/23 17:15	Mon 08/05/23 17:30	O Chakama,O Galeboe	
4218				Carry Out Electrical Isolation	1.75 hrs	4217	Mon 08/05/23 17:30	Tue 09/05/23 08:15	O Chakama,O Galeboe	
4219				Conduct Risk Assessment	0.25 hrs	4218	Tue 09/05/23 08:15	Tue 09/05/23 08:30	Electrical Test	
4220				Clean Dust From Panel And Cable Spouts	2.5 hrs	4219	Tue 09/05/23 08:30	Tue 09/05/23 11:00	Electrical Test	
4221				Apply Contact Grease On Spout Contacts	2.5 hrs	4220	Tue 09/05/23 11:00	Tue 09/05/23 14:30	Electrical Test	
4222				Clear Permit	0.25 hrs	4221	Tue 09/05/23 14:30	Tue 09/05/23 14:45	O Galeboe,O Chakama,Electrical Test	
4223		85CNE104	R363178	BASHUT-0376 - PS 3 SUB 11Kv BOARD - Clean Hv cubicles	8 hrs		Mon 08/05/23 17:15	Tue 09/05/23 15:15		
4224				Make Out Permit	2 hrs	4216	Mon 08/05/23 17:15	Tue 09/05/23 08:15	Operations	
4225				Accept Permit	0.25 hrs	4224	Tue 09/05/23 08:15	Tue 09/05/23 08:30	O Galeboe,O Chakama	
4226				Carry Out Electrical Isolation	0.25 hrs	4225	Tue 09/05/23 08:30	Tue 09/05/23 08:45	O Galeboe,O Chakama	
4227				Conduct Risk Assessment	0.25 hrs	4226	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Electrical Test	
4228				Clean Dust From Panel And Cable Spouts	2.5 hrs	4227	Tue 09/05/23 09:00	Tue 09/05/23 11:30	Electrical Test	
4229				Apply Contact Grease On Spout Contacts	2.5 hrs	4228	Tue 09/05/23 11:30	Tue 09/05/23 15:00	Electrical Test	
4230				Clear Permit	0.25 hrs	4229	Tue 09/05/23 15:00	Tue 09/05/23 15:15	Electrical Test,O Galeboe,O Chakama	
4231		14A527ND400702	R363179	BASHUT-0377 - PS 7 SUB 11Kv BOARD - Clean Hv cubicles	6.25 hrs		Mon 08/05/23 09:30	Mon 08/05/23 16:45		
4232				Make Out Permit	0.25 hrs	4192	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Operations	
4233				Accept Permit	0.25 hrs	4232	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Galeboe,O Chakama	
4234				Carry Out Electrical Isolation	0.25 hrs	4233	Mon 08/05/23 10:00	Mon 08/05/23 10:15	O Galeboe,O Chakama	
4235				Conduct Risk Assessment	0.25 hrs	4234	Mon 08/05/23 10:15	Mon 08/05/23 10:30	Electrical Test	
4236				Clean Dust From Panel And Cable Spouts	2.5 hrs	4235	Mon 08/05/23 10:30	Mon 08/05/23 14:00	Electrical Test	
4237				Apply Contact Grease On Spout Contacts	2.5 hrs	4236	Mon 08/05/23 14:00	Mon 08/05/23 16:30	Electrical Test	
4238				Clear Permit	0.25 hrs	4237	Mon 08/05/23 16:30	Mon 08/05/23 16:45	Electrical Test,O Galeboe,O Chakama	
4239			R363183	BASHUT-0378 - POWER STATION 11KV BUSCOUPLER 1 SW/PANEL ZONE A service switchboards	86.75 hrs		Sat 06/05/23 10:00	Sun 14/05/23 17:45		
4240				Make out permit	18.25 hrs		Sat 06/05/23 10:00	Mon 08/05/23 08:15	Operations	
4241				Accept permit	0.25 hrs	4240	Mon 08/05/23 08:15	Mon 08/05/23 08:30	O Chakama,O Galeboe	
4242				Carry out required isolations	2 hrs	4241	Mon 08/05/23 08:30	Mon 08/05/23 10:30	O Chakama,O Galeboe	
4243				Service switchboards and YSF6 breakers	64 hrs	4242	Mon 08/05/23 10:30	Sun 14/05/23 15:30	Electrical Test	
4244				De-isolate	2 hrs	4243	Sun 14/05/23 15:30	Sun 14/05/23 17:30	O Chakama,O Galeboe	
4245				Clear permit	0.25 hrs	4244	Sun 14/05/23 17:30	Sun 14/05/23 17:45	O Chakama,O Galeboe	
4246			R363185	BASHUT-0379 - POWER STATION 11KV BUSCOUPLER 2 SW/PANEL ZONE B service switchboards	71.5 hrs		Mon 08/05/23 08:15	Mon 15/05/23 09:45		
4247				Make out permit	0.25 hrs	4240	Mon 08/05/23 08:15	Mon 08/05/23 08:30	Operations	
4248				Accept permit	0.25 hrs	4247	Mon 08/05/23 08:30	Mon 08/05/23 08:45	O Chakama,O Galeboe	
4249				Carry out required isolations	2 hrs	4248	Mon 08/05/23 08:45	Mon 08/05/23 10:45	O Chakama,O Galeboe	
4250				Service switchboards and YSF6 breakers	64 hrs	4249	Mon 08/05/23 10:45	Sun 14/05/23 15:45	Electrical Test	
4251				De-isolate	4.75 hrs	4250	Sun 14/05/23 15:45	Mon 15/05/23 09:30	O Chakama,O Galeboe	
4252				Clear permit	0.25 hrs	4251	Mon 15/05/23 09:30	Mon 15/05/23 09:45	O Chakama,O Galeboe	
4253			R363186	BASHUT-0380 - POWER STATION 3.3KV MCC INCOMER 1 & BUS - Service switchboards and	69.75 hrs		Mon 08/05/23 08:30	Mon 15/05/23 08:15		
4254				Make out permit	0.25 hrs	4247	Mon 08/05/23 08:30	Mon 08/05/23 08:45	Operations	
4255				Accept permit	0.25 hrs	4254	Mon 08/05/23 08:45	Mon 08/05/23 09:00	O Chakama,O Galeboe	
4256				Carry out required isolations	2 hrs	4255	Mon 08/05/23 09:00	Mon 08/05/23 11:00	O Chakama,O Galeboe	
4257				Service switchboards and YSF6 breakers	64 hrs	4256	Mon 08/05/23 11:00	Sun 14/05/23 16:00	Electrical Test	
4258				De-isolate	2 hrs	4257	Sun 14/05/23 16:00	Sun 14/05/23 18:00	O Chakama,O Galeboe	
4259				Clear permit	1.25 hrs	4258	Mon 15/05/23 07:00	Mon 15/05/23 08:15	O Chakama,O Galeboe	
4260			R363188	BASHUT-0381 - POWER STATION 3.3KV MCC INCOMER 2& BUS - Service switchboards and	68.75 hrs		Mon 08/05/23 08:30	Mon 15/05/23 07:15		
4261				Make out permit	0.25 hrs	4247	Mon 08/05/23 08:30	Mon 08/05/23 08:45	Operations	
4262				Accept permit	0.25 hrs	4261	Mon 08/05/23 08:45	Mon 08/05/23 09:00	O Chakama,O Galeboe	
4263				Carry out required isolations	2 hrs	4262	Mon 08/05/23 09:00	Mon 08/05/23 11:00	O Chakama,O Galeboe	
4264				Service switchboards and YSF6 breakers	64 hrs	4263	Mon 08/05/23 11:00	Sun 14/05/23 16:00	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4265				De-isolate	2 hrs	4264	Sun 14/05/23 16:00	Sun 14/05/23 18:00	O Chakama,O Galeboe	
4266				Clear permit	0.25 hrs	4265	Sun 14/05/23 18:00	Mon 15/05/23 07:15	O Chakama,O Galeboe	
4267			R363190	BASHUT-0382 - CARBONATION 3.3KV MCC INCOMERS& BUS - Service switchboards and YSF6 breakers	69.5 hrs		Mon 08/05/23 08:45	Mon 15/05/23 08:15		
4268				Make out permit	0.25 hrs	4261	Mon 08/05/23 08:45	Mon 08/05/23 09:00	Operations	
4269				Accept permit	0.25 hrs	4268	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Chakama,O Galeboe	
4270				Carry out required isolations	2 hrs	4269	Mon 08/05/23 09:15	Mon 08/05/23 11:15	O Chakama,O Galeboe	
4271				Service switchboards and YSF6 breakers	64 hrs	4270	Mon 08/05/23 11:15	Sun 14/05/23 16:15	Electrical Test	
4272				De-isolate	2 hrs	4271	Sun 14/05/23 16:15	Mon 15/05/23 07:15	O Chakama,O Galeboe	
4273				Clear permit	1 hr	4272	Mon 15/05/23 07:15	Mon 15/05/23 08:15	O Chakama,O Galeboe	
4274			R363191	BASHUT-0383 - PS 1- 11KV MCC INCOMERS& BUS - Service switchboards and YSF6 breaker	68.75 hrs		Mon 08/05/23 09:00	Mon 15/05/23 07:45		
4275				Make out permit	0.25 hrs	4268	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
4276				Accept permit	0.25 hrs	4275	Mon 08/05/23 09:15	Mon 08/05/23 09:30	O Chakama,O Galeboe	
4277				Carry out required isolations	2 hrs	4276	Mon 08/05/23 09:30	Mon 08/05/23 11:30	O Chakama,O Galeboe	
4278				Service switchboards and YSF6 breakers	64 hrs	4277	Mon 08/05/23 11:30	Sun 14/05/23 16:30	Electrical Test	
4279				De-isolate	2 hrs	4278	Sun 14/05/23 16:30	Mon 15/05/23 07:30	O Chakama,O Galeboe	
4280				Clear permit	0.25 hrs	4279	Mon 15/05/23 07:30	Mon 15/05/23 07:45	O Chakama,O Galeboe	
4281				BASHUT-0383 - PS 7- 11KV MCC INCOMERS& BUS - Service switchboards and YSF6 breaker	68.75 hrs		Mon 08/05/23 09:15	Mon 15/05/23 08:00		
4282				Make out permit	0.25 hrs	4275	Mon 08/05/23 09:15	Mon 08/05/23 09:30	Operations	
4283				Accept permit	0.25 hrs	4282	Mon 08/05/23 09:30	Mon 08/05/23 09:45	O Chakama,O Galeboe	
4284				Carry out required isolations	2 hrs	4283	Mon 08/05/23 09:45	Mon 08/05/23 11:45	O Chakama,O Galeboe	
4285				Service switchboards and YSF6 breakers	64 hrs	4284	Mon 08/05/23 11:45	Sun 14/05/23 16:45	Electrical Test	
4286				De-isolate	2 hrs	4285	Sun 14/05/23 16:45	Mon 15/05/23 07:45	O Chakama,O Galeboe	
4287				Clear permit	0.25 hrs	4286	Mon 15/05/23 07:45	Mon 15/05/23 08:00	O Chakama,O Galeboe	
4288			R363192	BASHUT-0384 - PS 3- 11KV MCC INCOMERS& BUS - Service switchboards and YSF6 breaker	70.75 hrs		Mon 08/05/23 09:30	Mon 15/05/23 10:15		
4289				Make out permit	0.25 hrs	4282	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Operations	
4290				Accept permit	0.25 hrs	4289	Mon 08/05/23 09:45	Mon 08/05/23 10:00	O Galeboe,O Chakama	
4291				Carry out required isolations	2 hrs	4290	Mon 08/05/23 10:00	Mon 08/05/23 12:00	O Galeboe,O Chakama	
4292				Service switchboards and YSF6 breakers	66 hrs	4291	Mon 08/05/23 13:00	Mon 15/05/23 08:00	Electrical Test	
4293				De-isolate	2 hrs	4292	Mon 15/05/23 08:00	Mon 15/05/23 10:00	O Galeboe,O Chakama	
4294				Clear permit	0.25 hrs	4293	Mon 15/05/23 10:00	Mon 15/05/23 10:15	O Galeboe,O Chakama	
4295		85B7NK40300	R363195	BASHUT-0386 - CALCINING Sub 110VDC TRIPPING BATTERY UNIT	4.75 hrs		Mon 08/05/23 09:45	Mon 08/05/23 15:30		
4296				Make out permit	0.25 hrs	4289	Mon 08/05/23 09:45	Mon 08/05/23 10:00	Operations	
4297				Accept permit	0.25 hrs	4296	Mon 08/05/23 10:00	Mon 08/05/23 10:15	Alpret	
4298				Service/ replace battery charger	3 hrs	4297	Mon 08/05/23 10:15	Mon 08/05/23 14:15	Tribal Dcss	
4299				Carry out inspection	1 hr	4298	Mon 08/05/23 14:15	Mon 08/05/23 15:15	Electrical technician	
4300				Clear permit	0.25 hrs	4299	Mon 08/05/23 15:15	Mon 08/05/23 15:30	O Galeboe,O Chakama	
4301		85B7NK40400	R363196	BASHUT-0387 - BAGGING Sub 110VDC TRIPPING BATTERY UNIT	4.75 hrs		Mon 08/05/23 10:00	Mon 08/05/23 15:45		
4302				Make out permit	0.25 hrs	4296	Mon 08/05/23 10:00	Mon 08/05/23 10:15	Operations	
4303				Accept permit	0.25 hrs	4302	Mon 08/05/23 10:15	Mon 08/05/23 10:30	Alpret	
4304				Service/ replace battery charger	3 hrs	4303	Mon 08/05/23 10:30	Mon 08/05/23 14:30	Tribal Dcss	
4305				Carry out inspection	1 hr	4304	Mon 08/05/23 14:30	Mon 08/05/23 15:30	Electrical technician	
4306				Clear permit	0.25 hrs	4305	Mon 08/05/23 15:30	Mon 08/05/23 15:45	O Galeboe,O Chakama	
4307			R363197	BASHUT-0388 - Carbonation Sub 3.3Kv Board Protection relay testing	8 hrs		Mon 08/05/23 08:30	Mon 08/05/23 17:30		
4308				Make out permit	0.25 hrs	4247	Mon 08/05/23 08:30	Mon 08/05/23 08:45	Operations	
4309				Accept permit	0.25 hrs	4308	Mon 08/05/23 08:45	Mon 08/05/23 09:00	O Chakama,O Galeboe	
4310				Isolate the control power	0.25 hrs	4309	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Electrical Test	
4311				Pull out the protection relay	0.25 hrs	4310	Mon 08/05/23 09:15	Mon 08/05/23 09:30	Electrical Test	
4312				Connect the protection relay to the test machine	0.25 hrs	4311	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Electrical Test	
4313				Injection test the relay	1.5 hrs	4312	Mon 08/05/23 09:45	Mon 08/05/23 11:15	Electrical Test	
4314				Check the resistance of the CT's	2.5 hrs	4313	Mon 08/05/23 11:15	Mon 08/05/23 14:45	Electrical Test	
4315				Record the readings	1 hr	4314	Mon 08/05/23 14:45	Mon 08/05/23 15:45	Electrical Test	
4316				Insert the relay back into the panel	1 hr	4315	Mon 08/05/23 15:45	Mon 08/05/23 16:45	Electrical Test	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										
FINAL EXECUTION DOCUMENT										
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4317				Put a test sticker on the relay	0.25 hrs	4316	Mon 08/05/23 16:45	Mon 08/05/23 17:00	Electrical Test	
4318				De-isolate the control power	0.25 hrs	4317	Mon 08/05/23 17:00	Mon 08/05/23 17:15	Electrical Test	
4319				Clear permit	0.25 hrs	4318	Mon 08/05/23 17:15	Mon 08/05/23 17:30	O Chakama,O Galeboe	
4320			R363199	BASHUT-0389 - Power Sub 3.3Kv Board Protection relay testing	8 hrs		Mon 08/05/23 08:45	Mon 08/05/23 17:45		
4321				Make out permit	0.25 hrs	4308	Mon 08/05/23 08:45	Mon 08/05/23 09:00	Operations	
4322				Accept permit	0.25 hrs	4321	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Chakama,O Galeboe	
4323				Isolate the control power	0.25 hrs	4322	Mon 08/05/23 09:15	Mon 08/05/23 09:30	Electrical Test	
4324				Pull out the protection relay	0.25 hrs	4323	Mon 08/05/23 09:30	Mon 08/05/23 09:45	Electrical Test	
4325				Connect the protection relay to the test machine	0.25 hrs	4324	Mon 08/05/23 09:45	Mon 08/05/23 10:00	Electrical Test	
4326				Injection test the relay	1.5 hrs	4325	Mon 08/05/23 10:00	Mon 08/05/23 11:30	Electrical Test	
4327				Check the resistance of the CT's	2.5 hrs	4326	Mon 08/05/23 11:30	Mon 08/05/23 15:00	Electrical Test	
4328				Record the readings	1 hr	4327	Mon 08/05/23 15:00	Mon 08/05/23 16:00	Electrical Test	
4329				Insert the relay back into the panel	1 hr	4328	Mon 08/05/23 16:00	Mon 08/05/23 17:00	Electrical Test	
4330				Put a test sticker on the relay	0.25 hrs	4329	Mon 08/05/23 17:00	Mon 08/05/23 17:15	Electrical Test	
4331				De-isolate the control power	0.25 hrs	4330	Mon 08/05/23 17:15	Mon 08/05/23 17:30	Electrical Test	
4332				Clear permit	0.25 hrs	4331	Mon 08/05/23 17:30	Mon 08/05/23 17:45	O Chakama,O Galeboe	
4333			R363278	BASHUT-0390 - Power Sub 11Kv Board Protection relay testing	9.25 hrs		Mon 08/05/23 17:45	Tue 09/05/23 17:00		
4334				Make out permit	1.5 hrs	4321,4333	Mon 08/05/23 17:45	Tue 09/05/23 08:15	Operations	
4335				Accept permit	0.25 hrs	4334	Tue 09/05/23 08:15	Tue 09/05/23 08:30	O Chakama,O Galeboe	
4336				Isolate the control power	0.25 hrs	4335	Tue 09/05/23 08:30	Tue 09/05/23 08:45	Electrical Test	
4337				Pull out the protection relay	0.25 hrs	4336	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Electrical Test	
4338				Connect the protection relay to the test machine	0.25 hrs	4337	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Electrical Test	
4339				Injection test the relay	1.5 hrs	4338	Tue 09/05/23 09:15	Tue 09/05/23 10:45	Electrical Test	
4340				Check the resistance of the CT's	2.5 hrs	4339	Tue 09/05/23 10:45	Tue 09/05/23 14:15	Electrical Test	
4341				Record the readings	1 hr	4340	Tue 09/05/23 14:15	Tue 09/05/23 15:15	Electrical Test	
4342				Insert the relay back into the panel	1 hr	4341	Tue 09/05/23 15:15	Tue 09/05/23 16:15	Electrical Test	
4343				Put a test sticker on the relay	0.25 hrs	4342	Tue 09/05/23 16:15	Tue 09/05/23 16:30	Electrical Test	
4344				De-isolate the control power	0.25 hrs	4343	Tue 09/05/23 16:30	Tue 09/05/23 16:45	Electrical Test	
4345				Clear permit	0.25 hrs	4344	Tue 09/05/23 16:45	Tue 09/05/23 17:00	O Chakama,O Galeboe	
4346			R363280	BASHUT-0391 - Calcining Sub 525v Boards Protection relay testing	8 hrs		Tue 09/05/23 17:00	Wed 10/05/23 15:00		
4347				Make out permit	0.25 hrs	4345	Tue 09/05/23 17:00	Tue 09/05/23 17:15	Operations	
4348				Accept permit	0.25 hrs	4347	Tue 09/05/23 17:15	Tue 09/05/23 17:30	O Galeboe,O Chakama	
4349				Isolate the control power	0.25 hrs	4348	Tue 09/05/23 17:30	Tue 09/05/23 17:45	Electrical Test	
4350				Pull out the protection relay	0.25 hrs	4349	Tue 09/05/23 17:45	Tue 09/05/23 18:00	Electrical Test	
4351				Connect the protection relay to the test machine	0.25 hrs	4350	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Electrical Test	
4352				Injection test the relay	1.5 hrs	4351	Wed 10/05/23 07:15	Wed 10/05/23 08:45	Electrical Test	
4353				Check the resistance of the CT's	2.5 hrs	4352	Wed 10/05/23 08:45	Wed 10/05/23 11:15	Electrical Test	
4354				Record the readings	1 hr	4353	Wed 10/05/23 11:15	Wed 10/05/23 13:15	Electrical Test	
4355				Insert the relay back into the panel	1 hr	4354	Wed 10/05/23 13:15	Wed 10/05/23 14:15	Electrical Test	
4356				Put a test sticker on the relay	0.25 hrs	4355	Wed 10/05/23 14:15	Wed 10/05/23 14:30	Electrical Test	
4357				De-isolate the control power	0.25 hrs	4356	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Electrical Test	
4358				Clear permit	0.25 hrs	4357	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
4359			R363281	BASHUT-0392 - Salt Sub 525v Boards Protection relay testing	8 hrs		Tue 09/05/23 17:15	Wed 10/05/23 15:15		
4360				Make out permit	0.25 hrs	4347	Tue 09/05/23 17:15	Tue 09/05/23 17:30	Operations	
4361				Accept permit	0.25 hrs	4360	Tue 09/05/23 17:30	Tue 09/05/23 17:45	O Chakama,O Galeboe	
4362				Isolate the control power	0.25 hrs	4361	Tue 09/05/23 17:45	Tue 09/05/23 18:00	Electrical Test	
4363				Pull out the protection relay	0.25 hrs	4362	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Electrical Test	
4364				Connect the protection relay to the test machine	0.25 hrs	4363	Wed 10/05/23 07:15	Wed 10/05/23 07:30	Electrical Test	
4365				Injection test the relay	1.5 hrs	4364	Wed 10/05/23 07:30	Wed 10/05/23 09:00	Electrical Test	
4366				Check the resistance of the CT's	2.5 hrs	4365	Wed 10/05/23 09:00	Wed 10/05/23 11:30	Electrical Test	
4367				Record the readings	1 hr	4366	Wed 10/05/23 11:30	Wed 10/05/23 13:30	Electrical Test	
4368				Insert the relay back into the panel	1 hr	4367	Wed 10/05/23 13:30	Wed 10/05/23 14:30	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4369				Put a test sticker on the relay	0.25 hrs	4368	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Electrical Test	
4370				De-isolate the control power	0.25 hrs	4369	Wed 10/05/23 14:45	Wed 10/05/23 15:00	Electrical Test	
4371				Clear permit	0.25 hrs	4370	Wed 10/05/23 15:00	Wed 10/05/23 15:15	O Chakama,O Galeboe	
4372			R363265	BASHUT-0393 - Solar Ponds PS1 Sub 11Kv Board Protection relay testing	8 hrs		Wed 10/05/23 15:15	Thu 11/05/23 13:15		
4373				Make out permit	0.25 hrs	4371	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Operations	
4374				Accept permit	0.25 hrs	4373	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama	
4375				Isolate the control power	0.25 hrs	4374	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Electrical Test	
4376				Pull out the protection relay	0.25 hrs	4375	Wed 10/05/23 16:00	Wed 10/05/23 16:15	Electrical Test	
4377				Connect the protection relay to the test machine	0.25 hrs	4376	Wed 10/05/23 16:15	Wed 10/05/23 16:30	Electrical Test	
4378				Injection test the relay	1.5 hrs	4377	Wed 10/05/23 16:30	Wed 10/05/23 18:00	Electrical Test	
4379				Check the resistance of the CT's	2.5 hrs	4378	Wed 10/05/23 18:00	Thu 11/05/23 09:30	Electrical Test	
4380				Record the readings	1 hr	4379	Thu 11/05/23 09:30	Thu 11/05/23 10:30	Electrical Test	
4381				Insert the relay back into the panel	1 hr	4380	Thu 11/05/23 10:30	Thu 11/05/23 11:30	Electrical Test	
4382				Put a test sticker on the relay	0.25 hrs	4381	Thu 11/05/23 11:30	Thu 11/05/23 11:45	Electrical Test	
4383				De-isolate the control power	0.25 hrs	4382	Thu 11/05/23 11:45	Thu 11/05/23 12:00	Electrical Test	
4384				Clear permit	0.25 hrs	4383	Thu 11/05/23 12:00	Thu 11/05/23 13:15	O Galeboe,O Chakama	
4385			R363266	BASHUT-0394 - Solar Ponds PS3 Sub 11Kv Board Protection relay testing	8 hrs		Tue 09/05/23 17:30	Wed 10/05/23 15:30		
4386				Make out permit	0.25 hrs	4360	Tue 09/05/23 17:30	Tue 09/05/23 17:45	Operations	
4387				Accept permit	0.25 hrs	4386	Tue 09/05/23 17:45	Tue 09/05/23 18:00	O Galeboe,O Chakama	
4388				Isolate the control power	0.25 hrs	4387	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Electrical Test	
4389				Pull out the protection relay	0.25 hrs	4388	Wed 10/05/23 07:15	Wed 10/05/23 07:30	Electrical Test	
4390				Connect the protection relay to the test machine	0.25 hrs	4389	Wed 10/05/23 07:30	Wed 10/05/23 07:45	Electrical Test	
4391				Injection test the relay	1.5 hrs	4390	Wed 10/05/23 07:45	Wed 10/05/23 09:15	Electrical Test	
4392				Check the resistance of the CT's	2.5 hrs	4391	Wed 10/05/23 09:15	Wed 10/05/23 11:45	Electrical Test	
4393				Record the readings	1 hr	4392	Wed 10/05/23 11:45	Wed 10/05/23 13:45	Electrical Test	
4394				Insert the relay back into the panel	1 hr	4393	Wed 10/05/23 13:45	Wed 10/05/23 14:45	Electrical Test	
4395				Put a test sticker on the relay	0.25 hrs	4394	Wed 10/05/23 14:45	Wed 10/05/23 15:00	Electrical Test	
4396				De-isolate the control power	0.25 hrs	4395	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Electrical Test	
4397				Clear permit	0.25 hrs	4396	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
4398			R363268	BASHUT-0395 - Solar ponds PS7 Sub 11Kv Board Protection relay testing	8.25 hrs		Tue 09/05/23 18:00	Wed 10/05/23 16:15		
4399				Make out permit	0.25 hrs	4387	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Operations	
4400				Accept permit	0.25 hrs	4389,4399	Wed 10/05/23 07:30	Wed 10/05/23 07:45	O Galeboe,O Chakama	
4401				Isolate the control power	0.25 hrs	4400	Wed 10/05/23 07:45	Wed 10/05/23 08:00	Electrical Test	
4402				Pull out the protection relay	0.25 hrs	4401	Wed 10/05/23 08:00	Wed 10/05/23 08:15	Electrical Test	
4403				Connect the protection relay to the test machine	0.25 hrs	4402	Wed 10/05/23 08:15	Wed 10/05/23 08:30	Electrical Test	
4404				Injection test the relay	1.5 hrs	4403	Wed 10/05/23 08:30	Wed 10/05/23 10:00	Electrical Test	
4405				Check the resistance of the CT's	2.5 hrs	4404	Wed 10/05/23 10:00	Wed 10/05/23 13:30	Electrical Test	
4406				Record the readings	1 hr	4405	Wed 10/05/23 13:30	Wed 10/05/23 14:30	Electrical Test	
4407				Insert the relay back into the panel	1 hr	4406	Wed 10/05/23 14:30	Wed 10/05/23 15:30	Electrical Test	
4408				Put a test sticker on the relay	0.25 hrs	4407	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Electrical Test	
4409				De-isolate the control power	0.25 hrs	4408	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Electrical Test	
4410				Clear permit	0.25 hrs	4409	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
4411			R363269	BASHUT-0396 - Solar Ponds PS2 Sub 525v Board Protection relay testing	8 hrs		Wed 10/05/23 07:15	Wed 10/05/23 16:15		
4412				Make out permit	0.25 hrs	4399	Wed 10/05/23 07:15	Wed 10/05/23 07:30	Operations	
4413				Accept permit	0.25 hrs	4412	Wed 10/05/23 07:30	Wed 10/05/23 07:45	O Galeboe,O Chakama	
4414				Isolate the control power	0.25 hrs	4413	Wed 10/05/23 07:45	Wed 10/05/23 08:00	Electrical Test	
4415				Pull out the protection relay	0.25 hrs	4414	Wed 10/05/23 08:00	Wed 10/05/23 08:15	Electrical Test	
4416				Connect the protection relay to the test machine	0.25 hrs	4415	Wed 10/05/23 08:15	Wed 10/05/23 08:30	Electrical Test	
4417				Injection test the relay	1.5 hrs	4416	Wed 10/05/23 08:30	Wed 10/05/23 10:00	Electrical Test	
4418				Check the resistance of the CT's	2.5 hrs	4417	Wed 10/05/23 10:00	Wed 10/05/23 13:30	Electrical Test	
4419				Record the readings	1 hr	4418	Wed 10/05/23 13:30	Wed 10/05/23 14:30	Electrical Test	
4420				Insert the relay back into the panel	1 hr	4419	Wed 10/05/23 14:30	Wed 10/05/23 15:30	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4421				Put a test sticker on the relay	0.25 hrs	4420	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Electrical Test	
4422				De-isolate the control power	0.25 hrs	4421	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Electrical Test	
4423				Clear permit	0.25 hrs	4422	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Galeboe,O Chakama	
4424			R363271	BASHUT-0397 - Solar Ponds PS4 Sub 525v Board Protection relay testing	9.25 hrs		Mon 08/05/23 17:45	Tue 09/05/23 17:00		
4425				Make out permit	1.5 hrs	4332	Mon 08/05/23 17:45	Tue 09/05/23 08:15	Operations	
4426				Accept permit	0.25 hrs	4425	Tue 09/05/23 08:15	Tue 09/05/23 08:30	O Galeboe,O Chakama	
4427				Isolate the control power	0.25 hrs	4426	Tue 09/05/23 08:30	Tue 09/05/23 08:45	Electrical Test	
4428				Pull out the protection relay	0.25 hrs	4427	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Electrical Test	
4429				Connect the protection relay to the test machine	0.25 hrs	4428	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Electrical Test	
4430				Injection test the relay	1.5 hrs	4429	Tue 09/05/23 09:15	Tue 09/05/23 10:45	Electrical Test	
4431				Check the resistance of the CT's	2.5 hrs	4430	Tue 09/05/23 10:45	Tue 09/05/23 14:15	Electrical Test	
4432				Record the readings	1 hr	4431	Tue 09/05/23 14:15	Tue 09/05/23 15:15	Electrical Test	
4433				Insert the relay back into the panel	1 hr	4432	Tue 09/05/23 15:15	Tue 09/05/23 16:15	Electrical Test	
4434				Put a test sticker on the relay	0.25 hrs	4433	Tue 09/05/23 16:15	Tue 09/05/23 16:30	Electrical Test	
4435				De-isolate the control power	0.25 hrs	4434	Tue 09/05/23 16:30	Tue 09/05/23 16:45	Electrical Test	
4436				Clear permit	0.25 hrs	4435	Tue 09/05/23 16:45	Tue 09/05/23 17:00	O Galeboe,O Chakama	
4437			R363272	BASHUT-0398 - Solar Ponds PS5 Sub 525v Board Protection relay testing	8 hrs		Tue 09/05/23 17:00	Wed 10/05/23 15:00		
4438				Make out permit	0.25 hrs	4436	Tue 09/05/23 17:00	Tue 09/05/23 17:15	Operations	
4439				Accept permit	0.25 hrs	4438	Tue 09/05/23 17:15	Tue 09/05/23 17:30	O Galeboe,O Chakama	
4440				Isolate the control power	0.25 hrs	4439	Tue 09/05/23 17:30	Tue 09/05/23 17:45	Electrical Test	
4441				Pull out the protection relay	0.25 hrs	4440	Tue 09/05/23 17:45	Tue 09/05/23 18:00	Electrical Test	
4442				Connect the protection relay to the test machine	0.25 hrs	4441	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Electrical Test	
4443				Injection test the relay	1.5 hrs	4442	Wed 10/05/23 07:15	Wed 10/05/23 08:45	Electrical Test	
4444				Check the resistance of the CT's	2.5 hrs	4443	Wed 10/05/23 08:45	Wed 10/05/23 11:15	Electrical Test	
4445				Record the readings	1 hr	4444	Wed 10/05/23 11:15	Wed 10/05/23 13:15	Electrical Test	
4446				Insert the relay back into the panel	1 hr	4445	Wed 10/05/23 13:15	Wed 10/05/23 14:15	Electrical Test	
4447				Put a test sticker on the relay	0.25 hrs	4446	Wed 10/05/23 14:15	Wed 10/05/23 14:30	Electrical Test	
4448				De-isolate the control power	0.25 hrs	4447	Wed 10/05/23 14:30	Wed 10/05/23 14:45	Electrical Test	
4449				Clear permit	0.25 hrs	4448	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama	
4450			R363274	BASHUT-0399 - Solar Ponds PS6 Sub 525v Board Protection relay testing	8 hrs		Wed 10/05/23 15:00	Thu 11/05/23 12:00		
4451				Make out permit	0.25 hrs	4449	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Operations	
4452				Accept permit	0.25 hrs	4451	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Galeboe,O Chakama	
4453				Isolate the control power	0.25 hrs	4452	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Electrical Test	
4454				Pull out the protection relay	0.25 hrs	4453	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Electrical Test	
4455				Connect the protection relay to the test machine	0.25 hrs	4454	Wed 10/05/23 16:00	Wed 10/05/23 16:15	Electrical Test	
4456				Injection test the relay	1.5 hrs	4455	Wed 10/05/23 16:15	Wed 10/05/23 17:45	Electrical Test	
4457				Check the resistance of the CT's	2.5 hrs	4456	Wed 10/05/23 17:45	Thu 11/05/23 09:15	Electrical Test	
4458				Record the readings	1 hr	4457	Thu 11/05/23 09:15	Thu 11/05/23 10:15	Electrical Test	
4459				Insert the relay back into the panel	1 hr	4458	Thu 11/05/23 10:15	Thu 11/05/23 11:15	Electrical Test	
4460				Put a test sticker on the relay	0.25 hrs	4459	Thu 11/05/23 11:15	Thu 11/05/23 11:30	Electrical Test	
4461				De-isolate the control power	0.25 hrs	4460	Thu 11/05/23 11:30	Thu 11/05/23 11:45	Electrical Test	
4462				Clear permit	0.25 hrs	4461	Thu 11/05/23 11:45	Thu 11/05/23 12:00	O Galeboe,O Chakama	
4463			R363256	BASHUT-0400 - Wellfields 11Kv Sub 1 Protection relay testing	8 hrs		Tue 09/05/23 17:30	Wed 10/05/23 15:30		
4464				Make out permit	0.25 hrs	4439	Tue 09/05/23 17:30	Tue 09/05/23 17:45	Operations	
4465				Accept permit	0.25 hrs	4464	Tue 09/05/23 17:45	Tue 09/05/23 18:00	O Chakama,O Galeboe	
4466				Isolate the control power	0.25 hrs	4465	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Electrical Test	
4467				Pull out the protection relay	0.25 hrs	4466	Wed 10/05/23 07:15	Wed 10/05/23 07:30	Electrical Test	
4468				Connect the protection relay to the test machine	0.25 hrs	4467	Wed 10/05/23 07:30	Wed 10/05/23 07:45	Electrical Test	
4469				Injection test the relay	1.5 hrs	4468	Wed 10/05/23 07:45	Wed 10/05/23 09:15	Electrical Test	
4470				Check the resistance of the CT's	2.5 hrs	4469	Wed 10/05/23 09:15	Wed 10/05/23 11:45	Electrical Test	
4471				Record the readings	1 hr	4470	Wed 10/05/23 11:45	Wed 10/05/23 13:45	Electrical Test	
4472				Insert the relay back into the panel	1 hr	4471	Wed 10/05/23 13:45	Wed 10/05/23 14:45	Electrical Test	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names
4473				Put a test sticker on the relay	0.25 hrs	4472	Wed 10/05/23 14:45	Wed 10/05/23 15:00	Electrical Test
4474				De-isolate the control power	0.25 hrs	4473	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Electrical Test
4475				Clear permit	0.25 hrs	4474	Wed 10/05/23 15:15	Wed 10/05/23 15:30	O Chakama,O Galeboe
4476			R363258	BASHUT-0401 - Wellfields 11Kv Sub 2 Protection relay testing	8 hrs		Wed 10/05/23 15:30	Thu 11/05/23 13:30	
4477				Make out permit	0.25 hrs	4475	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Operations
4478				Accept permit	0.25 hrs	4477	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Galeboe,O Chakama
4479				Isolate the control power	0.25 hrs	4478	Wed 10/05/23 16:00	Wed 10/05/23 16:15	Electrical Test
4480				Pull out the protection relay	0.25 hrs	4479	Wed 10/05/23 16:15	Wed 10/05/23 16:30	Electrical Test
4481				Connect the protection relay to the test machine	0.25 hrs	4480	Wed 10/05/23 16:30	Wed 10/05/23 16:45	Electrical Test
4482				Injection test the relay	1.5 hrs	4481	Wed 10/05/23 16:45	Thu 11/05/23 07:15	Electrical Test
4483				Check the resistance of the CT's	2.5 hrs	4482	Thu 11/05/23 07:15	Thu 11/05/23 09:45	Electrical Test
4484				Record the readings	1 hr	4483	Thu 11/05/23 09:45	Thu 11/05/23 10:45	Electrical Test
4485				Insert the relay back into the panel	1 hr	4484	Thu 11/05/23 10:45	Thu 11/05/23 11:45	Electrical Test
4486				Put a test sticker on the relay	0.25 hrs	4485	Thu 11/05/23 11:45	Thu 11/05/23 12:00	Electrical Test
4487				De-isolate the control power	0.25 hrs	4486	Thu 11/05/23 12:00	Thu 11/05/23 13:15	Electrical Test
4488				Clear permit	0.25 hrs	4487	Thu 11/05/23 13:15	Thu 11/05/23 13:30	O Galeboe,O Chakama
4489			R363259	BASHUT-0402 - Wellfields 11Kv Sub 3 Protection relay testing	8 hrs		Tue 09/05/23 17:45	Wed 10/05/23 15:45	
4490				Make out permit	0.25 hrs	4464	Tue 09/05/23 17:45	Tue 09/05/23 18:00	Operations
4491				Accept permit	0.25 hrs	4490	Tue 09/05/23 18:00	Wed 10/05/23 07:15	O Galeboe,O Chakama
4492				Isolate the control power	0.25 hrs	4491	Wed 10/05/23 07:15	Wed 10/05/23 07:30	Electrical Test
4493				Pull out the protection relay	0.25 hrs	4492	Wed 10/05/23 07:30	Wed 10/05/23 07:45	Electrical Test
4494				Connect the protection relay to the test machine	0.25 hrs	4493	Wed 10/05/23 07:45	Wed 10/05/23 08:00	Electrical Test
4495				Injection test the relay	1.5 hrs	4494	Wed 10/05/23 08:00	Wed 10/05/23 09:30	Electrical Test
4496				Check the resistance of the CT's	2.5 hrs	4495	Wed 10/05/23 09:30	Wed 10/05/23 12:00	Electrical Test
4497				Record the readings	1 hr	4496	Wed 10/05/23 12:00	Wed 10/05/23 14:00	Electrical Test
4498				Insert the relay back into the panel	1 hr	4497	Wed 10/05/23 14:00	Wed 10/05/23 15:00	Electrical Test
4499				Put a test sticker on the relay	0.25 hrs	4498	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Electrical Test
4500				De-isolate the control power	0.25 hrs	4499	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Electrical Test
4501				Clear permit	0.25 hrs	4500	Wed 10/05/23 15:30	Wed 10/05/23 15:45	O Galeboe,O Chakama
4502			R363261	BASHUT-0403 - Wellfields 11Kv Sub 4 Protection relay testing	8 hrs		Wed 10/05/23 15:45	Thu 11/05/23 13:45	
4503				Make out permit	0.25 hrs	4501	Wed 10/05/23 15:45	Wed 10/05/23 16:00	Operations
4504				Accept permit	0.25 hrs	4503	Wed 10/05/23 16:00	Wed 10/05/23 16:15	O Chakama,O Galeboe
4505				Isolate the control power	0.25 hrs	4504	Wed 10/05/23 16:15	Wed 10/05/23 16:30	Electrical Test
4506				Pull out the protection relay	0.25 hrs	4505	Wed 10/05/23 16:30	Wed 10/05/23 16:45	Electrical Test
4507				Connect the protection relay to the test machine	0.25 hrs	4506	Wed 10/05/23 16:45	Wed 10/05/23 17:00	Electrical Test
4508				Injection test the relay	1.5 hrs	4507	Wed 10/05/23 17:00	Thu 11/05/23 07:30	Electrical Test
4509				Check the resistance of the CT's	2.5 hrs	4508	Thu 11/05/23 07:30	Thu 11/05/23 10:00	Electrical Test
4510				Record the readings	1 hr	4509	Thu 11/05/23 10:00	Thu 11/05/23 11:00	Electrical Test
4511				Insert the relay back into the panel	1 hr	4510	Thu 11/05/23 11:00	Thu 11/05/23 12:00	Electrical Test
4512				Put a test sticker on the relay	0.25 hrs	4511	Thu 11/05/23 12:00	Thu 11/05/23 13:15	Electrical Test
4513				De-isolate the control power	0.25 hrs	4512	Thu 11/05/23 13:15	Thu 11/05/23 13:30	Electrical Test
4514				Clear permit	0.25 hrs	4513	Thu 11/05/23 13:30	Thu 11/05/23 13:45	O Chakama,O Galeboe
4515			R363262	BASHUT-0404 - Wellfields 11Kv Sub 5 Protection relay testing	8 hrs		Tue 09/05/23 18:00	Wed 10/05/23 16:00	
4516				Make out permit	0.25 hrs	4490	Tue 09/05/23 18:00	Wed 10/05/23 07:15	Operations
4517				Accept permit	0.25 hrs	4516	Wed 10/05/23 07:15	Wed 10/05/23 07:30	O Chakama,O Galeboe
4518				Isolate the control power	0.25 hrs	4517	Wed 10/05/23 07:30	Wed 10/05/23 07:45	Electrical Test
4519				Pull out the protection relay	0.25 hrs	4518	Wed 10/05/23 07:45	Wed 10/05/23 08:00	Electrical Test
4520				Connect the protection relay to the test machine	0.25 hrs	4519	Wed 10/05/23 08:00	Wed 10/05/23 08:15	Electrical Test
4521				Injection test the relay	1.5 hrs	4520	Wed 10/05/23 08:15	Wed 10/05/23 09:45	Electrical Test
4522				Check the resistance of the CT's	2.5 hrs	4521	Wed 10/05/23 09:45	Wed 10/05/23 13:15	Electrical Test
4523				Record the readings	1 hr	4522	Wed 10/05/23 13:15	Wed 10/05/23 14:15	Electrical Test
4524				Insert the relay back into the panel	1 hr	4523	Wed 10/05/23 14:15	Wed 10/05/23 15:15	Electrical Test



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4525				Put a test sticker on the relay	0.25 hrs	4524	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Electrical Test	
4526				De-isolate the control power	0.25 hrs	4525	Wed 10/05/23 15:30	Wed 10/05/23 15:45	Electrical Test	
4527				Clear permit	0.25 hrs	4526	Wed 10/05/23 15:45	Wed 10/05/23 16:00	O Chakama,O Galeboe	
4528			R363264	BASHUT-0405 - Wellfields 11Kv Sub 6 Protection relay testing	8 hrs		Wed 10/05/23 16:00	Thu 11/05/23 14:00		
4529				Make out permit	0.25 hrs	4503	Wed 10/05/23 16:00	Wed 10/05/23 16:15	Operations	
4530				Accept permit	0.25 hrs	4529	Wed 10/05/23 16:15	Wed 10/05/23 16:30	O Chakama,O Galeboe	
4531				Isolate the control power	0.25 hrs	4530	Wed 10/05/23 16:30	Wed 10/05/23 16:45	Electrical Test	
4532				Pull out the protection relay	0.25 hrs	4531	Wed 10/05/23 16:45	Wed 10/05/23 17:00	Electrical Test	
4533				Connect the protection relay to the test machine	0.25 hrs	4532	Wed 10/05/23 17:00	Wed 10/05/23 17:15	Electrical Test	
4534				Injection test the relay	1.5 hrs	4533	Wed 10/05/23 17:15	Thu 11/05/23 07:45	Electrical Test	
4535				Check the resistance of the CT's	2.5 hrs	4534	Thu 11/05/23 07:45	Thu 11/05/23 10:15	Electrical Test	
4536				Record the readings	1 hr	4535	Thu 11/05/23 10:15	Thu 11/05/23 11:15	Electrical Test	
4537				Insert the relay back into the panel	1 hr	4536	Thu 11/05/23 11:15	Thu 11/05/23 13:15	Electrical Test	
4538				Put a test sticker on the relay	0.25 hrs	4537	Thu 11/05/23 13:15	Thu 11/05/23 13:30	Electrical Test	
4539				De-isolate the control power	0.25 hrs	4538	Thu 11/05/23 13:30	Thu 11/05/23 13:45	Electrical Test	
4540				Clear permit	0.25 hrs	4539	Thu 11/05/23 13:45	Thu 11/05/23 14:00	O Chakama,O Galeboe	
4541		AREA 85C		LV RETICULATION	82.5 hrs		Mon 08/05/23 08:45	Tue 16/05/23 11:15		
4542				ELECTRICAL	82.5 hrs		Mon 08/05/23 08:45	Tue 16/05/23 11:15		
4543		14A527NK40600	R363204	PS 1 SUB 110Vdc BATTERY TRIP UNIT - Service battery charger	4.75 hrs		Mon 08/05/23 08:45	Mon 08/05/23 14:30		
4544				Make Out Permit	0.25 hrs	4308	Mon 08/05/23 08:45	Mon 08/05/23 09:00	Operations	
4545				Accept Permit	0.25 hrs	4544	Mon 08/05/23 09:00	Mon 08/05/23 09:15	O Galeboe,O Chakama	
4546				Service Battery Charger	3 hrs	4545	Mon 08/05/23 09:15	Mon 08/05/23 13:15	Tribal Dcss	
4547				Carry Out Inspection	1 hr	4546	Mon 08/05/23 13:15	Mon 08/05/23 14:15	Reliability	
4548				Clear Permit	0.25 hrs	4547	Mon 08/05/23 14:15	Mon 08/05/23 14:30	O Galeboe,O Chakama	
4549		14A527NK40200	R363206	PS 2 SUB 110Vdc BATTERY TRIP UNIT - Service/ replace battery charger	4.75 hrs		Mon 08/05/23 14:30	Tue 09/05/23 08:15		
4550				Make Out Permit	0.25 hrs	4548	Mon 08/05/23 14:30	Mon 08/05/23 14:45	Operations	
4551				Accept Permit	0.25 hrs	4550	Mon 08/05/23 14:45	Mon 08/05/23 15:00	O Galeboe,O Chakama	
4552				Service/ Replace Battery Charger	3 hrs	4551	Mon 08/05/23 15:00	Mon 08/05/23 18:00	Tribal Dcss	
4553				Carry Out Inspection	1 hr	4552	Mon 08/05/23 18:00	Tue 09/05/23 08:00	Reliability	
4554				Clear Permit	0.25 hrs	4553	Tue 09/05/23 08:00	Tue 09/05/23 08:15	O Galeboe,O Chakama	
4555		14A527NK40700	R363208	PS 3 SUB 110Vdc BATTERY TRIP UNIT - Service battery charger	4.75 hrs		Tue 09/05/23 08:15	Tue 09/05/23 14:00		
4556				Make Out Permit	0.25 hrs	4554	Tue 09/05/23 08:15	Tue 09/05/23 08:30	Operations	
4557				Accept Permit	0.25 hrs	4556	Tue 09/05/23 08:30	Tue 09/05/23 08:45	O Chakama,O Galeboe	
4558				Service Battery Charger	3 hrs	4557	Tue 09/05/23 08:45	Tue 09/05/23 11:45	Tribal Dcss	
4559				Carry Out Inspection	1 hr	4558	Tue 09/05/23 11:45	Tue 09/05/23 13:45	Reliability	
4560				Clear Permit	0.25 hrs	4559	Tue 09/05/23 13:45	Tue 09/05/23 14:00	O Chakama,O Galeboe	
4561		14A527NK40400	R363209	PS 4 SUB 110Vdc BATTERY TRIP UNIT - Service / replace battery charger	4.75 hrs		Tue 09/05/23 14:00	Wed 10/05/23 07:45		
4562				Make Out Permit	0.25 hrs	4560	Tue 09/05/23 14:00	Tue 09/05/23 14:15	Operations	
4563				Accept Permit	0.25 hrs	4562	Tue 09/05/23 14:15	Tue 09/05/23 14:30	O Chakama,O Galeboe	
4564				Service / Replace Battery Charger	3 hrs	4563	Tue 09/05/23 14:30	Tue 09/05/23 17:30	Tribal Dcss	
4565				Carry Out Inspection	1 hr	4564	Tue 09/05/23 17:30	Wed 10/05/23 07:30	Reliability	
4566				Clear Permit	0.25 hrs	4565	Wed 10/05/23 07:30	Wed 10/05/23 07:45	O Chakama,O Galeboe	
4567		14A527NK40500	R363210	PS 5 SUB 110Vdc BATTERY TRIP UNIT - Replace battery charger	4 hrs		Wed 10/05/23 07:45	Wed 10/05/23 11:45		
4568				Make Out Permit	0.25 hrs	4566	Wed 10/05/23 07:45	Wed 10/05/23 08:00	Operations	
4569				Accept Permit	0.25 hrs	4568	Wed 10/05/23 08:00	Wed 10/05/23 08:15	O Galeboe,O Chakama	
4570				Replace Battery Charger	3 hrs	4569	Wed 10/05/23 08:15	Wed 10/05/23 11:15	Tribal Dcss	
4571				Clear Permit	0.5 hrs	4570	Wed 10/05/23 11:15	Wed 10/05/23 11:45	O Galeboe,O Chakama	
4572		14A527NK40100	R363211	PS 6 SUB 110Vdc BATTERY TRIP UNIT - Service / replace battery charger	4.75 hrs		Wed 10/05/23 11:45	Wed 10/05/23 17:30		
4573				Make Out Permit	0.25 hrs	4571	Wed 10/05/23 11:45	Wed 10/05/23 12:00	Operations	
4574				Accept Permit	0.25 hrs	4573	Wed 10/05/23 12:00	Wed 10/05/23 13:15	O Chakama,O Galeboe	
4575				Service / Replace Battery Charger	3 hrs	4574	Wed 10/05/23 13:15	Wed 10/05/23 16:15	Tribal Dcss	
4576				Carry Out Inspection	1 hr	4575	Wed 10/05/23 16:15	Wed 10/05/23 17:15	Reliability	

UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL										FINAL EXECUTION DOCUMENT
										
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4577				Clear Permit	0.25 hrs	4576	Wed 10/05/23 17:15	Wed 10/05/23 17:30	O Chakama,O Galeboe	
4578		14A527NK40800	R363212	PS 7 SUB 110Vdc BATTERY TRIP UNIT - Service battery charger	4.75 hrs		Wed 10/05/23 17:30	Thu 11/05/23 11:15		
4579				Make Out Permit	0.25 hrs	4577	Wed 10/05/23 17:30	Wed 10/05/23 17:45	Operations	
4580				Accept Permit	0.25 hrs	4579	Wed 10/05/23 17:45	Wed 10/05/23 18:00	O Chakama,O Galeboe	
4581				Service Battery Charger	3 hrs	4580	Wed 10/05/23 18:00	Thu 11/05/23 10:00	Tribal Dcss	
4582				Carry Out Inspection	1 hr	4581	Thu 11/05/23 10:00	Thu 11/05/23 11:00	Reliability	
4583				Clear Permit	0.25 hrs	4582	Thu 11/05/23 11:00	Thu 11/05/23 11:15	O Chakama,O Galeboe	
4584		85C527NXU0370A	R359576	POWER STATION 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Thu 11/05/23 11:15	Thu 11/05/23 17:00		
4585				Make Out Permit	0.25 hrs	4583	Thu 11/05/23 11:15	Thu 11/05/23 11:30	Operations	
4586				Accept Permit	0.25 hrs	4585	Thu 11/05/23 11:30	Thu 11/05/23 11:45	O Chakama,O Galeboe	
4587				Service Battery Charger	3 hrs	4586	Thu 11/05/23 11:45	Thu 11/05/23 15:45	Tribal Dcss	
4588				Carry Out Inspection	1 hr	4587	Thu 11/05/23 15:45	Thu 11/05/23 16:45	Reliability	
4589				Clear Permit	0.25 hrs	4588	Thu 11/05/23 16:45	Thu 11/05/23 17:00	O Chakama,O Galeboe	
4590		85C527NXU0370B	R359578	POWER STATION 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Thu 11/05/23 17:00	Fri 12/05/23 10:45		
4591				Make Out Permit	0.25 hrs	4589	Thu 11/05/23 17:00	Thu 11/05/23 17:15	Operations	
4592				Accept Permit	0.25 hrs	4591	Thu 11/05/23 17:15	Thu 11/05/23 17:30	O Chakama,O Galeboe	
4593				Service Battery Charger	3 hrs	4592	Thu 11/05/23 17:30	Fri 12/05/23 09:30	Tribal Dcss	
4594				Carry Out Inspection	1 hr	4593	Fri 12/05/23 09:30	Fri 12/05/23 10:30	Reliability	
4595				Clear Permit	0.25 hrs	4594	Fri 12/05/23 10:30	Fri 12/05/23 10:45	O Chakama,O Galeboe	
4596		85C527NXU0380A	R359579	POWER STATION 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Fri 12/05/23 10:45	Fri 12/05/23 16:30		
4597				Make Out Permit	0.25 hrs	4595	Fri 12/05/23 10:45	Fri 12/05/23 11:00	Operations	
4598				Accept Permit	0.25 hrs	4597	Fri 12/05/23 11:00	Fri 12/05/23 11:15	O Chakama,O Galeboe	
4599				Service Battery Charger	3 hrs	4598	Fri 12/05/23 11:15	Fri 12/05/23 15:15	Tribal Dcss	
4600				Carry Out Inspection	1 hr	4599	Fri 12/05/23 15:15	Fri 12/05/23 16:15	Reliability	
4601				Clear Permit	0.25 hrs	4600	Fri 12/05/23 16:15	Fri 12/05/23 16:30	O Chakama,O Galeboe	
4602		85C527NXU0380B	R359580	POWER STATION 24Vdc POWER SUPPLY UNIT - Service battery charger	25.5 hrs		Fri 12/05/23 16:30	Mon 15/05/23 11:00		
4603				Make Out Permit	0.25 hrs	4601	Fri 12/05/23 16:30	Fri 12/05/23 16:45	Operations	
4604				Accept Permit	0.25 hrs	4603	Fri 12/05/23 16:45	Fri 12/05/23 17:00	O Chakama,O Galeboe	
4605				Service Battery Charger	23.75 hrs	4604	Fri 12/05/23 17:00	Mon 15/05/23 09:45	Tribal Dcss	
4606				Carry Out Inspection	1 hr	4605	Mon 15/05/23 09:45	Mon 15/05/23 10:45	Reliability	
4607				Clear Permit	0.25 hrs	4606	Mon 15/05/23 10:45	Mon 15/05/23 11:00	O Chakama,O Galeboe	
4608		85C527NXU0470A	R359581	CALCINING SUB 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Mon 15/05/23 11:00	Mon 15/05/23 16:45		
4609				Make Out Permit	0.25 hrs	4607	Mon 15/05/23 11:00	Mon 15/05/23 11:15	Operations	
4610				Accept Permit	0.25 hrs	4609	Mon 15/05/23 11:15	Mon 15/05/23 11:30	O Chakama,O Galeboe	
4611				Service Battery Charger	3 hrs	4610	Mon 15/05/23 11:30	Mon 15/05/23 15:30	Tribal Dcss	
4612				Carry Out Inspection	1 hr	4611	Mon 15/05/23 15:30	Mon 15/05/23 16:30	Reliability	
4613				Clear Permit	0.25 hrs	4612	Mon 15/05/23 16:30	Mon 15/05/23 16:45	O Chakama,O Galeboe	
4614		85C527NXU0470B	R359582	CALCINING SUB 24Vdc POWER SUPPLY UNIT - Service battery charger	5.5 hrs		Mon 15/05/23 16:45	Tue 16/05/23 11:15		
4615				Make Out Permit	0.25 hrs	4613	Mon 15/05/23 16:45	Mon 15/05/23 17:00	Operations	
4616				Accept Permit	0.25 hrs	4615	Mon 15/05/23 17:00	Mon 15/05/23 17:15	O Chakama,O Galeboe	
4617				Service Battery Charger	3.75 hrs	4616	Mon 15/05/23 17:15	Tue 16/05/23 10:00	Tribal Dcss	
4618				Carry Out Inspection	1 hr	4617	Tue 16/05/23 10:00	Tue 16/05/23 11:00	Reliability	
4619				Clear Permit	0.25 hrs	4618	Tue 16/05/23 11:00	Tue 16/05/23 11:15	O Chakama,O Galeboe	
4620		85C527NXU0570A	R359583	BAGGING SUB 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Mon 08/05/23 09:00	Mon 08/05/23 14:45		
4621				Make Out Permit	0.25 hrs	4544	Mon 08/05/23 09:00	Mon 08/05/23 09:15	Operations	
4622				Accept Permit	0.25 hrs	4621	Mon 08/05/23 09:15	Mon 08/05/23 09:30	O Chakama,O Galeboe	
4623				Service Battery Charger	3 hrs	4622	Mon 08/05/23 09:30	Mon 08/05/23 13:30	Tribal Dcss	
4624				Carry Out Inspection	1 hr	4623	Mon 08/05/23 13:30	Mon 08/05/23 14:30	Reliability	
4625				Clear Permit	0.25 hrs	4624	Mon 08/05/23 14:30	Mon 08/05/23 14:45	O Chakama,O Galeboe	
4626		85C527NXU0570B	R359584	BAGGING SUB 24Vdc POWER SUPPLY UNIT - Service battery charger	4.75 hrs		Mon 08/05/23 14:45	Tue 09/05/23 08:30		
4627				Make Out Permit	0.25 hrs	4625	Mon 08/05/23 14:45	Mon 08/05/23 15:00	Operations	
4628				Accept Permit	0.25 hrs	4627	Mon 08/05/23 15:00	Mon 08/05/23 15:15	O Chakama,O Galeboe	



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4629				Service Battery Charger	3 hrs	4628	Mon 08/05/23 15:15	Tue 09/05/23 07:15	Tribal Dcss	
4630				Carry Out Inspection	1 hr	4629	Tue 09/05/23 07:15	Tue 09/05/23 08:15	Reliability	
4631				Clear Permit	0.25 hrs	4630	Tue 09/05/23 08:15	Tue 09/05/23 08:30	O Chakama,O Galeboe	
4632		85C7NK4000	R363215	Power Sub 11KV 110VDC TRIPPING BATTERY	4.75 hrs		Tue 09/05/23 08:30	Tue 09/05/23 14:15		
4633				Make out permit	0.25 hrs	4631	Tue 09/05/23 08:30	Tue 09/05/23 08:45	Operations	
4634				Accept permit	0.25 hrs	4633	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Alpret	
4635				Service/ replace battery charger	3 hrs	4634	Tue 09/05/23 09:00	Tue 09/05/23 12:00	Tribal Dcss	
4636				carry out inspection	1 hr	4635	Tue 09/05/23 12:00	Tue 09/05/23 14:00	Electrical technician	
4637				Clear permit	0.25 hrs	4636	Tue 09/05/23 14:00	Tue 09/05/23 14:15	O Chakama,O Galeboe	
4638		85C7NK2010	R359587	Power Sub 3.3KV 110VDC TRIPPING BATTERY	4.75 hrs		Tue 09/05/23 14:15	Wed 10/05/23 08:00		
4639				Make out permit	0.25 hrs	4637	Tue 09/05/23 14:15	Tue 09/05/23 14:30	Operations	
4640				Accept permit	0.25 hrs	4639	Tue 09/05/23 14:30	Tue 09/05/23 14:45	Alpret	
4641				Service/ replace battery charger	3 hrs	4640	Tue 09/05/23 14:45	Tue 09/05/23 17:45	Tribal Dcss	
4642				carry out inspection	1 hr	4641	Tue 09/05/23 17:45	Wed 10/05/23 07:45	Electrical technician	
4643				Clear permit	0.25 hrs	4642	Wed 10/05/23 07:45	Wed 10/05/23 08:00	O Chakama,O Galeboe	
4644		85C7NK2020	R363220	CARBONATION Sub 3.3KV 110VDC TRIPPING BATTERY	4.75 hrs		Wed 10/05/23 08:00	Wed 10/05/23 13:45		
4645				Make out permit	0.25 hrs	4643	Wed 10/05/23 08:00	Wed 10/05/23 08:15	Operations	
4646				Accept permit	0.25 hrs	4645	Wed 10/05/23 08:15	Wed 10/05/23 08:30	Alpret	
4647				Service or replace battery charger	3 hrs	4646	Wed 10/05/23 08:30	Wed 10/05/23 11:30	Tribal Dcss	
4648				Carry out inspection	1 hr	4647	Wed 10/05/23 11:30	Wed 10/05/23 13:30	Electrical technician	
4649				Clear permit	0.25 hrs	4648	Wed 10/05/23 13:30	Wed 10/05/23 13:45	O Chakama,O Galeboe	
4650		85B7NK20200	R363221	CARBONATION Sub 110VDC TRIPPING POWER SUPPLY	4.75 hrs		Wed 10/05/23 13:45	Thu 11/05/23 07:30		
4651				Make out permit	0.25 hrs	4649	Wed 10/05/23 13:45	Wed 10/05/23 14:00	Operations	
4652				Accept permit	0.25 hrs	4651	Wed 10/05/23 14:00	Wed 10/05/23 14:15	Alpret	
4653				Service or replace battery charger	3 hrs	4652	Wed 10/05/23 14:15	Wed 10/05/23 17:15	Tribal Dcss	
4654				carry out inspection	1 hr	4653	Wed 10/05/23 17:15	Thu 11/05/23 07:15	Electrical technician	
4655				Clear permit	0.25 hrs	4654	Thu 11/05/23 07:15	Thu 11/05/23 07:30	O Galeboe,O Chakama	
4656		85C7NKS010A	R363223	Power Sub 24VDC SHUTDOWN BATTERY 'A'	5.25 hrs		Thu 11/05/23 07:30	Thu 11/05/23 13:45		
4657				Make out permit	0.25 hrs	4655	Thu 11/05/23 07:30	Thu 11/05/23 07:45	Operations	
4658				Accept permit	0.25 hrs	4657	Thu 11/05/23 07:45	Thu 11/05/23 08:00	Alpret	
4659				Check voltages and clean battery cells	3 hrs	4658	Thu 11/05/23 08:00	Thu 11/05/23 11:00	Tribal Dcss	
4660				Lubricate battery terminals	0.5 hrs	4659	Thu 11/05/23 11:00	Thu 11/05/23 11:30	Tribal Dcss	
4661				Carry out inspection	1 hr	4660	Thu 11/05/23 11:30	Thu 11/05/23 13:30	Electrical technician	
4662				Clear permit	0.25 hrs	4661	Thu 11/05/23 13:30	Thu 11/05/23 13:45	O Chakama,O Galeboe	
4663		85C7NKS010B	R363225	Power Sub 24VDC SHUTDOWN BATTERY 'B'	5.25 hrs		Mon 08/05/23 14:30	Tue 09/05/23 08:45		
4664				Make out permit	0.25 hrs	4548	Mon 08/05/23 14:30	Mon 08/05/23 14:45	Operations	
4665				Accept permit	0.25 hrs	4664	Mon 08/05/23 14:45	Mon 08/05/23 15:00	Alpret	
4666				Check voltages and clean battery cells	3 hrs	4665	Mon 08/05/23 15:00	Mon 08/05/23 18:00	Tribal Dcss	
4667				Lubricate battery terminals	0.5 hrs	4666	Mon 08/05/23 18:00	Tue 09/05/23 07:30	Tribal Dcss	
4668				Carry out inspection	1 hr	4667	Tue 09/05/23 07:30	Tue 09/05/23 08:30	Electrical technician	
4669				Clear permit	0.25 hrs	4668	Tue 09/05/23 08:30	Tue 09/05/23 08:45	O Chakama,O Galeboe	
4670		85C7NKS020A	R363226	CARBONATION Sub 24VDC SHUTDOWN BATTERY 'A'	5.25 hrs		Tue 09/05/23 08:45	Tue 09/05/23 15:00		
4671				Make out permit	0.25 hrs	4669	Tue 09/05/23 08:45	Tue 09/05/23 09:00	Operations	
4672				Accept permit	0.25 hrs	4671	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Alpret	
4673				Check voltages and clean battery cells	3 hrs	4672	Tue 09/05/23 09:15	Tue 09/05/23 13:15	Tribal Dcss	
4674				Lubricate battery terminals	0.5 hrs	4673	Tue 09/05/23 13:15	Tue 09/05/23 13:45	Tribal Dcss	
4675				Carry out inspection	1 hr	4674	Tue 09/05/23 13:45	Tue 09/05/23 14:45	Electrical technician	
4676				Clear permit	0.25 hrs	4675	Tue 09/05/23 14:45	Tue 09/05/23 15:00	O Chakama,O Galeboe	
4677		85C7NKS020B	R363228	CARBONATION Sub 24VDC SHUTDOWN BATTERY 'B'	5.25 hrs		Tue 09/05/23 15:00	Wed 10/05/23 09:15		
4678				Make out permit	0.25 hrs	4676	Tue 09/05/23 15:00	Tue 09/05/23 15:15	Operations	
4679				Accept permit	0.25 hrs	4678	Tue 09/05/23 15:15	Tue 09/05/23 15:30	Alpret	
4680				Check voltages and clean battery cells	3 hrs	4679	Tue 09/05/23 15:30	Wed 10/05/23 07:30	Tribal Dcss	

 Botswana Ash (Pty) Ltd												UTILITIES PLANT SHUTDOWN PLAN - Wed May 03 - Mon May 22, 2023 - FINAL												FINAL EXECUTION DOCUMENT											
ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names																										
4681				Lubricate battery terminals	0.5 hrs	4680	Wed 10/05/23 07:30	Wed 10/05/23 08:00	Tribal Dcss																										
4682				Carry out inspection	1 hr	4681	Wed 10/05/23 08:00	Wed 10/05/23 09:00	Electrical technician																										
4683				Clear permit	0.25 hrs	4682	Wed 10/05/23 09:00	Wed 10/05/23 09:15	O Chakama,O Galeboe																										
4684		85B7NK45000	R363229	COAL HANDL Sub 110VDC TRIPPING UNIT	4.75 hrs		Wed 10/05/23 09:15	Wed 10/05/23 15:00																											
4685				Make out permit	0.25 hrs	4683	Wed 10/05/23 09:15	Wed 10/05/23 09:30	Operations																										
4686				Accept permit	0.25 hrs	4685	Wed 10/05/23 09:30	Wed 10/05/23 09:45	Alpret																										
4687				Service/ replace battery charger	3 hrs	4686	Wed 10/05/23 09:45	Wed 10/05/23 13:45	Tribal Dcss																										
4688				Carry out inspection	1 hr	4687	Wed 10/05/23 13:45	Wed 10/05/23 14:45	Electrical technician																										
4689				Clear permit	0.25 hrs	4688	Wed 10/05/23 14:45	Wed 10/05/23 15:00	O Galeboe,O Chakama																										
4690		85CNXU0270A	R363231	CONTROL ROOM 24VDC POWER SUPPLY UNIT	4.75 hrs		Wed 10/05/23 15:00	Thu 11/05/23 08:45																											
4691				Make out permit	0.25 hrs	4689	Wed 10/05/23 15:00	Wed 10/05/23 15:15	Operations																										
4692				Accept permit	0.25 hrs	4691	Wed 10/05/23 15:15	Wed 10/05/23 15:30	Alpret																										
4693				Service/ replace battery charger	3 hrs	4692	Wed 10/05/23 15:30	Thu 11/05/23 07:30	Tribal Dcss																										
4694				Carry out inspection	1 hr	4693	Thu 11/05/23 07:30	Thu 11/05/23 08:30	Electrical technician																										
4695				Clear permit	0.25 hrs	4694	Thu 11/05/23 08:30	Thu 11/05/23 08:45	O Chakama,O Galeboe																										
4696		85CNXU0270B	R363233	CONTROL ROOM 24VDC POWER SUPPLY UNIT	4.75 hrs		Thu 11/05/23 08:45	Thu 11/05/23 14:30																											
4697				Make out permit	0.25 hrs	4695	Thu 11/05/23 08:45	Thu 11/05/23 09:00	Operations																										
4698				Accept permit	0.25 hrs	4697	Thu 11/05/23 09:00	Thu 11/05/23 09:15	Alpret																										
4699				Service/ replace battery charger	3 hrs	4698	Thu 11/05/23 09:15	Thu 11/05/23 13:15	Tribal Dcss																										
4700				Carry out inspection	1 hr	4699	Thu 11/05/23 13:15	Thu 11/05/23 14:15	Electrical technician																										
4701				Clear permit	0.25 hrs	4700	Thu 11/05/23 14:15	Thu 11/05/23 14:30	O Galeboe,O Chakama																										
4702		85CNXS0270A	R363234	CONTROL ROOM 24VDC S/D POWER SUPPLY UNIT	6.25 hrs		Thu 11/05/23 14:30	Fri 12/05/23 09:45																											
4703				Make out permit	0.25 hrs	4701	Thu 11/05/23 14:30	Thu 11/05/23 14:45	Operations																										
4704				Accept permit	0.25 hrs	4703	Thu 11/05/23 14:45	Thu 11/05/23 15:00	Alpret																										
4705				Check voltages and clean battery cells	4 hrs	4704	Thu 11/05/23 15:00	Fri 12/05/23 08:00	Tribal Dcss																										
4706				Lubricate battery terminals	0.5 hrs	4705	Fri 12/05/23 08:00	Fri 12/05/23 08:30	Tribal Dcss																										
4707				Carry out inspection	1 hr	4706	Fri 12/05/23 08:30	Fri 12/05/23 09:30	Electrical technician																										
4708				Clear permit	0.25 hrs	4707	Fri 12/05/23 09:30	Fri 12/05/23 09:45	O Chakama,O Galeboe																										
4709		85CNXS0270B	R363235	CONTROL ROOM 24VDC S/D POWER SUPPLY UNIT	5.25 hrs		Fri 12/05/23 09:45	Fri 12/05/23 16:00																											
4710				Make out permit	0.25 hrs	4708	Fri 12/05/23 09:45	Fri 12/05/23 10:00	Operations																										
4711				Accept permit	0.25 hrs	4710	Fri 12/05/23 10:00	Fri 12/05/23 10:15	Alpret																										
4712				Check voltages and clean battery cells	3 hrs	4711	Fri 12/05/23 10:15	Fri 12/05/23 14:15	Tribal Dcss																										
4713				Lubricate battery terminals	0.5 hrs	4712	Fri 12/05/23 14:15	Fri 12/05/23 14:45	Tribal Dcss																										
4714				Carry out inspection	1 hr	4713	Fri 12/05/23 14:45	Fri 12/05/23 15:45	Electrical technician																										
4715				Clear permit	0.25 hrs	4714	Fri 12/05/23 15:45	Fri 12/05/23 16:00	O Chakama,O Galeboe																										
4716		85C7NKS030A	R363236	CONTROL ROOM UPS BATTERY	26.25 hrs		Fri 12/05/23 16:00	Mon 15/05/23 11:15																											
4717				Make out permit	0.25 hrs	4715	Fri 12/05/23 16:00	Fri 12/05/23 16:15	Operations																										
4718				Accept permit	0.25 hrs	4717	Fri 12/05/23 16:15	Fri 12/05/23 16:30	O Chakama,O Galeboe																										
4719				Check voltages and clean battery cells	24 hrs	4718	Fri 12/05/23 16:30	Mon 15/05/23 09:30	Tribal Dcss																										
4720				Lubricate battery terminals	0.5 hrs	4719	Mon 15/05/23 09:30	Mon 15/05/23 10:00	Tribal Dcss																										
4721				Carry out inspection	1 hr	4720	Mon 15/05/23 10:00	Mon 15/05/23 11:00	Electrical technician																										
4722				Clear permit	0.25 hrs	4721	Mon 15/05/23 11:00	Mon 15/05/23 11:15	O Chakama,O Galeboe																										
4723		86A	R363283	DISTRIBUTED CONTROL SYSTEM (Dcs)	6.5 hrs		Tue 09/05/23 09:00	Tue 09/05/23 16:30																											
4724				Make Out Permit	0.25 hrs	4671	Tue 09/05/23 09:00	Tue 09/05/23 09:15	Operations																										
4725				Accept Permit	0.25 hrs	4724	Tue 09/05/23 09:15	Tue 09/05/23 09:30																											
4726				Check System Faults,If Any Repair From The Engineering Station	3 hrs	4725	Tue 09/05/23 09:30	Tue 09/05/23 13:30	K Ntatane,O Gobotswang																										
4727				Check Faults In Fcss	0.5 hrs	4726	Tue 09/05/23 13:30	Tue 09/05/23 14:00	K Ntatane,O Gobotswang																										
4728				Repair Faults In Fcss	0.5 hrs	4727	Tue 09/05/23 14:00	Tue 09/05/23 14:30	K Ntatane,O Gobotswang																										
4729				Clean The Fcss	1 hr	4728	Tue 09/05/23 14:30	Tue 09/05/23 15:30	K Ntatane,O Gobotswang																										
4730				Clear Permit	1 hr	4729	Tue 09/05/23 15:30	Tue 09/05/23 16:30	K Ntatane,O Gobotswang																										
4731			R363286	UPS SERVICE - 60 KVA - Carry out annual ups service	50.75 hrs		Tue 09/05/23 09:15	Sun 14/05/23 10:00																											
4732				Make out permit	0.25 hrs	4724	Tue 09/05/23 09:15	Tue 09/05/23 09:30	Operations																										



ID		Asset Code	Works order	Task Name	Duration	Predecess	Start	Finish	Resource Names	
4733	 			Accept permit	0.25 hrs	4732	Tue 09/05/23 09:30	Tue 09/05/23 09:45	O Chakama,O Galeboe	
4734				Service ups	50 hrs	4733	Tue 09/05/23 09:45	Sun 14/05/23 09:45	Master Power Technologies	
4735				Clear permit	0.25 hrs	4734	Sun 14/05/23 09:45	Sun 14/05/23 10:00	O Chakama,O Galeboe	