											Т									$\overline{}$	$\overline{}$						
	Duration (min)		15	20	45	<u></u>	75	00	105	120	125	1.50	1100	100	105	210	225	240	255	270	205	200	215	220	245	200	275
Mode Shutdown	Durat (min)	0	12	30	45	60	/5	90	105	120	135	150	105	180	195	210	225	240	255	2/0	285	300	315	330	345	360	3/5
Step Procedure	<u>ا</u> کے ک																										
Cooling and depressurising units																											
1 Turn off heaters H201 and H202	5																										
2 Gradually stop steam feed to reboiler H204	10																										
3 Gradually shut hydrogen and liquid feeds	45																										
4 Turn off fan F201 and pump P201	5																										
5 Depressurise reactor R201 to 1 atm by venting gas	15																										
Pumping out of process fluids																											
6 Drain reactor R201	10																										
7 Drain and vent distillation column S201	5																										
8 Drain and vent reboiler H204	5																										
9 Drain and vent condenser H203 and reflux drum S204	5																										
Purging residual materials and water disposal																											
10 Displacement of residual hydrogen with nitrogen	60																										
11 Gradually stop cooling water feed	30																										
12 Disposal of cooling water	15																										
13 Blowout heat exchangers H203 and H204 with nitrogen gas	15																										
Blinding and opening																											
14 Remove running blinds and install shutdown blinds	45																										
Inspection for entering																											
15 Isolation of the unit with physical disconnection	15																										
16 Inspection of electrical systems and instruments	30																										
17 Inspection of the units & atmosphere testing	60																										
18 Laying up of units if prolongated shutdown period	120																										
Studown downstream units																											
19 Complete shutdown of downstream steps	210																										,