

		Duration (min)																														
Mode	Startup		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375	390	405	300	
Step	Procedure																															
Preliminary Preparations																																
1	Preliminary inspection of plant sub-section	60																														
2	Remove shutdown blinds and install running blinds	30																														
Auxiliary Equipment and Utilities Start-up																																
3	Testing of electrical appliances and controls	15																														
4	Preparation of cooling water system	10																														
5	Preparation of steam system	10																														
6	Start-up fan F201 and electric heaters H201 and H203	5																														
Elimination of Air and leak prevention																																
7	Purge of units with nitrogen	60																														
8	Pressurisation of units	15																														
9	Tightness testing and bolt tightening	45																														
Initiation of onstream units																																
10	Opening hydrogen feed line	5																														
11	Pressurisation and heating of R201 to 5 atm, 60°C	10																														
12	Open hydrogen recycle purge	5																														
13	Introduce set amount of methanol into column S201	5																														
14	Allow level in the reboiler and condenser to build-up	15																														
15	Turn on pump P201	5																														
16	Gradually open liquid feed line to reactor and distillation column	60																														
17	Open valves on distillation products take-off lines	5																														
Downstream Preparations																																
18	Start-up of downstream units	210																														