

E-0n

Test Point Name	Notes	Test Point Type	Day	Order	Comb Mode	GT Load (MW)	CRT, F	Exhaust Temp (degF)	Exhaust Flow (lb/s)	Fuel Temp (degF)	Test Time (hr)	NOx (ppm)	CO (ppm)
DAY 1 - 06/16/2014													
COMB-3	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	1	3	102	65.3	754	1360	90	1.50	59	1746
COMB-2	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	2	3	70	65.3	833	1047	90	1.50	51	1367
COMB-1	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	3	3	43	65.3	912	813	90	1.50	43	1152
CLGS-1	Controls Loop Gain Sizing - Mode 3	NPI	1	4	3	43	65.3	912	813	90	0.75	43	1152
COMB-6	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	5	6.2	160	77.4	891	1366	90	2.00	36	575
COMB-5	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	6	6.2	115	77.0	967	1087	90	2.00	35	522
COMB-4	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	1	7	6.2	70	77.0	1069	816	90	2.00	33	473
CLGS-2	Controls Loop Gain Sizing - Mode 6.2	COM	1	8	6.2	70	77.0	1069	816	90	0.75	33	473
SD-1	Normal shutdown	NPI	1	9	All					90	1.00		
DAY 2 - 06/17/2014													
COMB-10	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	1	6.3	84	82.4	1140	818	90	1.00	20	36
COMB-7	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	2	6.3	105	85.4	1150	886	90	2.00	20	17
COMB-8	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	3	6.3	160	88.0	1100	1118	90	2.00	20	17
VLP-1	OpFlex Variable IBH commissioning - check min CRT filter/gains, tuning	COM	2	4	6.3	120	87.0	1150	940	90	1.00	20	17
VLP-2	OpFlex Variable IBH commissioning - check min CRT filter/gains, tuning	COM	2	5	6.3	180	92.4	1150	1133	90	1.00	20	17
COMB-11	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	6	6.3	184	82.3	950	1368	90	1.00	23	53
COMB-9	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	7	6.3	210	88.1	1025	1371	90	2.00	20	17
COMB-12	Combustion Mapping, Model Validation, and ALAT Commissioning	COM	2	8	6.3	235	93.6	1102	1375	90	2.00	20	17
SD-2	Maintenance shutdown	NPI	2	9	All					90	1.00		
DAY 3 - 06/18/2014													
CM-1	ALAT Control Mode Test - 700F Texh - Transition HP to CP	COM	3	1	3			700		90	0.50		
CM-2	ALAT Control Mode Test - CP - Transition 700-800F Texh	COM	3	2	All					90	0.50		
CM-3	ALAT Control Mode Test - 800F Texh - Transition CP to HP	COM	3	3	All			800		90	0.50		
CM-4	ALAT Control Mode Test - HP - Transition 800-900F Texh	COM	3	4	All					90	0.50		
CM-5	ALAT Control Mode Test - 900F Texh - Transition HP to CP	COM	3	5	All			900		90	0.50		
CM-6	ALAT Control Mode Test - CP - Transition 900-1000F Texh	COM	3	6	All					90	0.50		
CM-7	ALAT Control Mode Test - 1000F Texh - Transition CP to HP	COM	3	7	All			1000		90	0.50		
CM-8	ALAT Control Mode Test - HP - Transition 1000-1100F Texh	COM	3	8	All					90	0.50		
CM-9	ALAT Control Mode Test - 1100F Texh - Transition HP to Base Load	COM	3	9	All			1100		90	0.50		
CLGS-3	Controls Loop Gain Sizing - Mode 6.3	NPI	3	10	6.3	235	93.7	1102	1371	90	0.75	12	0
CM-10	ALAT Control Mode Test - HP - Transition Base Load to Turndown	COM	3	11	6.3					90	0.50		
GRD-1	Grid Test: 175MW CC, -0.5% step held for 5 mins	NPI	3	12	6.3	105		1150		90	0.25	12	10
GRD-2	Grid Test: 175MW CC, -1% step held for 30s	NPI	3	13	6.3	105		1150		90	0.25	12	10
GRD-3	Grid Test: 250MW CC, +0.5% for 180s, ramped in/out over 10s	NPI	3	14	6.3	165		1100		90	0.25	12	0
GRD-4	Grid Test: 250MW CC, +1% for 180s, ramped in/out over 10s	NPI	3	15	6.3	165		1100		90	0.25	12	0
GRD-5	Grid Test: 300MW CC, -0.5% step held for 5 mins	NPI	3	16	6.3	212		1100		90	0.25	12	0
GRD-6	Grid Test: 300MW CC, -1% step held for 5 mins	NPI	3	17	6.3	212		1100		90	0.25	12	0
GRD-7	Grid Test: Base Load, +0.5% step held for 2 mins, ramped out over 90s	NPI	3	18	6.3	235	93.7	1102	1371	90	0.25	12	0
GRD-8	Grid Test: Base Load, +1% step held for 2 mins, ramped out over 90s	NPI	3	19	6.3	235	93.7	1102	1371	90	0.25	12	0
GRD-9	Grid Test: Base Load, +1.5% step held for 2 mins, ramped out over 90s	NPI	3	20	6.3	235	93.7	1102	1371	90	0.25	12	0
GRD-10	Grid Test: Base Load, +1.9% step held for 2 mins, ramped out over 90s	NPI	3	21	6.3	235	93.7	1102	1371	90	0.25	12	0

Note on grid test points - conditions are only for steady state conditions prior to speed injection

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 SK 27.6.14
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