

Derate/ Outage Report		GREC			Report No. 15-20 / 16-01		
PART 1	Date	November 12, 2015		Type:	Reserve Shutdown		
	Date/Time Outage/Derate:	11/12/2015	1:52	Time <70nMW	1:10		
	Date/Time On Line:	3/7/2016	2:53				
	Date/Time at 70nMW:	3/7/2016	6:17	Time AGC on			
	Total Lost Grid Time:		2,785.02 hrs.				
	Total <70nMW		2,789.10 hrs.				
	Conditions Preceding Outage/ Derate	Operating at full load.					
Primary Cause of Outage/ Derate	GRU SCC dispatched GREC off to Reserve Shutdown						
Supporting Information	IAM						
PART 2	Corrective Actions						
	Investigation Required	N/A					
	Problems/Delays	None					
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-02		
PART 1	Date	November 12, 2015		Type: Forced			
	Date/Time Outage/Derate:	3/7/2016	9:49	Time <70nMW 9:49			
	Date/Time On Line:	3/10/2016	3:00				
	Date/Time at 70nMW:	3/10/2016	6:06	Time AGC on			
	Total Lost Grid Time:		65.18 hrs.				
	Total <70nMW		68.27 hrs.				
	Conditions Preceding Outage/ Derate	Operating at full load, 103 nMW.					
Primary Cause of Outage/ Derate	PA Duct expansion joint failure						
Supporting Information	Visual inspection						
PART 2	Corrective Actions	Expansion joint replaced					
	Investigation Required	None					
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-03	
PART 1	Date	March 10, 2016		Type: Reserve Shutdown		
	Date/Time Outage/Derate:	3/10/2016	21:00	Time <70nMW 19:59		
	Date/Time On Line:	5/26/2016	4:48			
	Date/Time at 70nMW:	5/26/2016	8:57	Time AGC on		
	Total Lost Grid Time:		1,831.80 hrs.			
	Total <70nMW		1,836.95 hrs.			
	Conditions Preceding Outage/ Derate	Operating at full load.				
Primary Cause of Outage/ Derate	GRU SCC dispatched GREC off to Reserve Shutdown					
Supporting Information	IAM					
PART 2	Corrective Actions					
	Investigation Required					
	Problems/Delays					
	Actions taken to prevent reoccurrence					
	Actions remaining to be taken and due date					

Derate/ Outage Report		<b>GREC</b>			Report No. 16-04		
PART 1	Date	May 31, 2016		Type:	Reserve Shutdown		
	Date/Time Outage/Derate:	5/27/2016	4:01	Time <70nMW	3:02		
	Date/Time On Line:	9/30/2016	3:13				
	Date/Time at 70nMW:	9/30/2016	6:57	Time AGC on	6:57		
	Total Lost Grid Time:		3,023.20 hrs.				
	Total <70nMW		3,027.90 hrs.				
	Conditions Preceding Outage/ Derate	Full load operation					
Primary Cause of Outage/ Derate	GRU SCC dispatched GREC off line to Reserve Shutdown						
Supporting Information	IAM						
PART 2	Corrective Actions						
	Investigation Required						
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-05		
PART 1	Date	October 3, 2016		Type:	Forced		
	Date/Time Outage/Derate:	9/30/2016	8:34	Time <70nMW	8:34		
	Date/Time On Line:	9/30/2016	10:05				
	Date/Time at 70nMW:	9/30/2016	11:44	Time AGC on	11:47		
	Total Lost Grid Time:		1.52 hrs.				
	Total <70nMW		3.15 hrs.				
	Conditions Preceding Outage/ Derate	Normal operation					
Primary Cause of Outage/ Derate	Wood quality issue caused rapid drop in load.						
Supporting Information	Operating tends						
PART 2	Corrective Actions	Blending fuel					
	Investigation Required	TBD					
	Problems/Delays	None					
	Actions taken to prevent reoccurrence	Done					
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-06		
PART 1	Date	October 3, 2016		Type:	Derate		
	Date/Time Outage/Derate:	10/2/2016	13:37	Time <70nMW			
	Date/Time Derate end:	10/2/2016	16:06				
	Date/Time at 70nMW:			Time AGC on			
	Total Lost Grid Time:		hrs.				
	Total <70nMW		hrs.				
	Conditions Preceding Outage/ Derate	Full load operation					
Primary Cause of Outage/ Derate	FGR gas instrument issue. Requested to drop load to 71 nMW while calling ICE in to investigate.						
Supporting Information	DCS Trends						
PART 2	Corrective Actions	Blew down transmitter sensing lines.					
	Investigation Required	None					
	Problems/Delays	None					
	Actions taken to prevent reoccurrence	TBD					
	Actions remaining to be taken and due date	None					

Derate/ Outage Report		GREC			Report No. 16-07		
PART 1	Date	October 11, 2016		Type:	RESERVE SHUTDOWN		
	Date/Time Outage/Derate:	10/10/2016	22:42	Time <70nMW	22:02		
	Date/Time On Line:	11/13/2016	10:55				
	Date/Time at 70nMW:	11/13/2016	15:55	Time AGC on	16:29		
	Total Lost Grid Time:		804.22 hrs.				
	Total <70nMW		809.87 hrs.				
	Conditions Preceding Outage/ Derate	Normal full power operation					
Primary Cause of Outage/ Derate	GRU dispatched GREC to Reserve Shutdown.						
Supporting Information	IAM/Logs						
PART 2	Corrective Actions						
	Investigation Required						
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-08		
PART 1	Date	November 14, 2016		Type: DERATE			
	Date/Time Outage/Derate:	11/13/2016	13:00	Time <70nMW			
	Date/Time On Line:						
	Date/Time at 70nMW:	11/13/2016	16:10	Time AGC on			
	Total Lost Grid Time:		hrs.				
	Total <70nMW		hrs.				
	Conditions Preceding Outage/ Derate	Starting up from Reserve Shutdown. Estimated on line time 13:00.					
Primary Cause of Outage/ Derate	Derate at 13:00-16:10 due to fuel related issues.						
Supporting Information	DCS historian						
PART 2	Corrective Actions						
	Investigation Required						
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						



Derate/ Outage Report		GREC			Report No. 16-09	
PART 1	Date	November 18, 2016		Type:	Forced	
	Date/Time Outage/Derate:	11/17/2016	12:21	Time <70nMW	12:21	
	Date/Time On Line: <b>Dispatched to Reserve Shutdown</b>	11/17/2016	13:35			
	Date/Time at 70nMW:			Time AGC on		
	Total Lost Grid Time:		1.23 hrs.			
	Total <70nMW		hrs.			
	Conditions Preceding Outage/ Derate	Normal full power operation.				
Primary Cause of Outage/ Derate	Turbine Control Valve loss of position. Loose connector.					
Supporting Information	Turbine alarms, visual inspection.					
PART 2	Corrective Actions	Reconnected and thread locked.				
	Investigation Required	None				
	Problems/Delays	GRU SCC postponed re-sync. after Turbine roll-up :: At 13:35 GREC transitioned from Forced Outage to Reserve Shutdown.				
	Actions taken to prevent reoccurrence	No further actions required.				
	Actions remaining to be taken and due date	None				

Derate/ Outage Report		GREC			Report No. 16-10		
PART 1	Date	November 18, 2016		Type:	Reserve Shutdown		
	Date/Time Outage/Derate:	11/17/2016	13:35	Time <70nMW	13:35		
	Date/Time On Line:	11/17/2016	18:44				
	Date/Time at 70nMW:	11/17/2016	19:47	Time AGC on	20:01		
	Total Lost Grid Time:		5.15 hrs.				
	Total <70nMW		6.18 hrs.				
	Conditions Preceding Outage/ Derate	Recovery from Forced Outage. Turbine rolling up preparing to Sync. GRU SCC postponed tie on.					
Primary Cause of Outage/ Derate	GRU placed GREC in Reserve Shutdown						
Supporting Information	Logs						
PART 2	Corrective Actions	None					
	Investigation Required						
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-11		
PART 1	Date	November 21, 2016		Type:	RESERVE SHUTDOWN		
	Date/Time Outage/Derate:	11/20/2016	19:37	Time <70nMW	18:58		
	Date/Time On-Line-Off Reserve Shutdown:	12/8/2016	5:00				
	Date/Time at 70nMW:			Time AGC on			
	Total Lost Grid Time:		417.38 hrs.				
	Total <70nMW		##### hrs.				
	Conditions Preceding Outage/ Derate	Normal full power operation					
Primary Cause of Outage/ Derate	GRU SCC directed GREC to Reserve Shutdown						
Supporting Information	Logs						
PART 2	Corrective Actions						
	Investigation Required						
	Problems/Delays						
	Actions taken to prevent reoccurrence						
	Actions remaining to be taken and due date						

Derate/ Outage Report		GREC			Report No. 16-12	
PART 1	Date	December 8, 2016		Type: Maintenance		
	Date/Time Outage/Derate:	12/8/2016	0:00	Time <70nMW		
	On-Line Return to Reserve Sh	12/8/2016	9:50			
	Date/Time at 70nMW:			Time AGC on		
	Total Lost Grid Time:		9.83 hrs.			
	Total <70nMW		##### hrs.			
	Conditions Preceding Outage/ Derate	Reserve Shutdown				
Primary Cause of Outage/ Derate	Maintenance Outage to repair Biler Feedwater valve					
Supporting Information						
PART 2	Corrective Actions					
	Investigation Required					
	Problems/Delays					
	Actions taken to prevent reoccurrence					
	Actions remaining to be taken and due date					

Derate/ Outage Report		GREC			Report No. 16-13	
PART 1	Date	December 8, 2016		Type:	RESERVE SHUTDOWN	
	Date/Time Outage/Derate:	12/8/2016	9:50	Time <70nMW		
	Date/Time On Line:					
	Date/Time at 70nMW:			Time AGC on		
	Total Lost Grid Time:		##### hrs.			
	Total <70nMW		##### hrs.			
	Conditions Preceding Outage/ Derate	While in Reserve Shutdown transitioned to a Maintenance Outage to perform maintenance on a FW valve.				
Primary Cause of Outage/ Derate	Returned to Reserve Shutdown status.					
Supporting Information						
PART 2	Corrective Actions					
	Investigation Required					
	Problems/Delays					
	Actions taken to prevent reoccurrence					
	Actions remaining to be taken and due date					