

To: SEPA To: CESAD From: (CESAS-EN-HA)															1 Week Declaration SAVANNAH RIVER SYSTEM Revised 7/24/2013 10:10					1 Reset=0 RBR Max Head Target 157.0 Approximate Usable Pump Window 7.00 HRS HART Target 661.00 RBR Target 475.00 475.50 JST Target 330.00 Hdecay Rdecay Tdecay		
HARTWELL	Date	SOP POOL (FT-MSL)	RULE CURVE (FT-MSL)	STARTING STORAGE (AC-FT)	LOCAL IN (CFS)	NET TOTAL IN (CFS)	TOTAL OUT (CFS)	TOTAL SPILL (CFS)	EST GEN (MWH)	DAILY TOTAL MIN GEN (MWH)	DAILY TOTAL MAX GEN (MWH)	EST PUMP (AC-FT)	ENDING STORAGE (AC-FT)	COMP ENDING POOL (FT-MSL)	Rainfall							
										EST MIN GEN (MWH)	EST MAX GEN (MWH)				Hdecay	Rdecay	Tdecay					
HARTWELL	Wed 17-Jul-2013	664.28	660.00	2798924	7905	177	14905	0	4862			n/a	2769674	663.80	RAINFALL 0.62 5.48 1.04 2.35 -0.62 0.95							
	Thu 18-Jul-2013	664.06	660.00	2785548	7087	7337	12793	0	4212			n/a	2774713	663.88								
	Fri 19-Jul-2013	663.88	660.00	2774736	5471	6184	16728	0	5549			n/a	2753796	663.53								
	Sat 20-Jul-2013	663.53	660.00	2753841	4491	5205	16351	0	5357			n/a	2731705	663.16								
	Sun 21-Jul-2013	663.16	660.00	2731752	10547	10797	16504	0	5478			n/a	2720418	662.97								
	Mon 22-Jul-2013	662.97	660.00	2720442	4423	11402	14654	0	4809			n/a	2713983	662.86								
	Tue 23-Jul-2013	662.86	660.00	2713996	5852	13843	19165	0	6242	250	250	n/a	2703427	662.68								
	Wed 24-Jul-2013	662.68	660.00	2703427	4282	4532	18890	0	6208	5958	6458	n/a	2674911	662.19								
	Thu 25-Jul-2013	662.19	660.00	2674911	5431	5681	8300	0	2728	2478	2978	n/a	2669710	662.10								
	Fri 26-Jul-2013	662.10	660.00	2669710	4399	4649	8300	0	2728	2478	2978	n/a	2662460	661.98								
RUSSELL	Sat 27-Jul-2013	661.98	660.00	2662460	7221	7471	8300	0	2728	2478	2978	n/a	2660814	661.95	0.25 0.10 0.10 0.75 0.75 0.75							
	Sun 28-Jul-2013	661.95	660.00	2660814	4885	5135	8300	0	2728	2478	2978	n/a	2654528	661.84								
	Mon 29-Jul-2013	661.84	660.00	2654528	3957	4207	8300	0	2728	2478	2978	n/a	2646399	661.70								
	Tue 30-Jul-2013	661.70	660.00	2646399	3561	3811	8300	0	2728	2478	2978	n/a	2637484	661.55								
	Wed 31-Jul-2013	661.55	660.00	2637484	3205	3455	8300	0	2728	2478	2978	n/a	2627862	661.38								
	Thu 01-Aug-2013	661.38	660.00	2627862	2740	2990	8300	0	2728	2478	2978	n/a	2617317	661.20								
	Fri 02-Aug-2013	661.20	660.00	2617317	2343	2593	8300	0	2728	2478	2978	n/a	2605983	661.00								
	LOC TOT GEN MIN MAX																					
	Wed 17-Jul-2013	478.86	475.00	1133076	804	15709	15424	0	4254			0	1133642	478.88		0	2					
	Thu 18-Jul-2013	478.88	475.00	1133650	-418	12374	22757	0	6231			0	1132029	478.16		0	2					
Fri 19-Jul-2013	478.16	475.00	1113109	-233	16495	24756	0	6801			0	1096703	477.58	0	2							
Sat 20-Jul-2013	477.58	475.00	1096766	-1277	15074	22124	0	6059			0	1082765	477.08	0	2							
Sun 21-Jul-2013	477.08	475.00	1082822	795	17298	21914	0	5903			0	1073656	476.75	0	2							
Mon 22-Jul-2013	476.75	475.00	1073693	-650	14004	21906	0	5937			0	1058000	476.18	0	2							
Tue 23-Jul-2013	476.18	475.00	1058060	-338	18827	22406	0	6035	250	250	0	1050952	475.92	0	2							
Wed 24-Jul-2013	475.92	475.00	1050952	250	19140	15878	0	4326	4076	4576	0	1057430	476.16	0	2							
Thu 25-Jul-2013	476.16	475.00	1057430	439	8739	11000	0	2997	2747	3247	0	1052940	475.99	0	2							
Fri 26-Jul-2013	475.99	475.00	1052940	308	8608	11000	0	2997	2747	3247	0	1048189	475.82	0	2							
Sat 27-Jul-2013	475.82	475.00	1048189	823	9123	9280	0	2528	0	0	0	1047877	475.81	0	4							
Sun 28-Jul-2013	475.81	475.00	1047877	576	8876	9280	0	2528	0	0	0	1047075	475.78	0	4							
Mon 29-Jul-2013	475.78	475.00	1047075	403	8703	9280	0	2528	2278	2778	0	1045930	475.73	0	4							
Tue 30-Jul-2013	475.73	475.00	1045930	282	8582	9280	0	2528	2278	2778	0	1044544	475.68	0	4							
Wed 31-Jul-2013	475.68	475.00	1044544	198	8498	9280	0	2528	2278	2778	0	1042990	475.62	0	4							
Thu 01-Aug-2013	475.62	475.00	1042990	138	8438	9280	0	2528	2278	2778	0	1041319	475.56	0	4							
Fri 02-Aug-2013	475.56	475.00	1041319	97	8397	9280	0	2528	2278	2778	0	1039565	475.50	0	4							
LOC TOT GEN MIN MAX																						
Wed 17-Jul-2013	330.87	330.00	2577860	4963	20387	37680	0	9102	22230	930	0	2543419	330.43	0	0.28	0.24						
Thu 18-Jul-2013	330.43	330.00	2543540	9445	32203	32908	0	8116	4000	167	0	2541992	330.41	0.33	0.27	0.25						
Fri 19-Jul-2013	330.39	330.00	2540420	4289	29045	29751	0	7340			0	2538872	330.37	0.33	0.27	0.25						
Sat 20-Jul-2013	330.37	330.00	2538860	4475	26599	23423	0	5809			0	2545010	330.45	0.33	0.27	0.25						
Sun 21-Jul-2013	330.49	330.00	2548220	4239	26153	23682	0	5974			0	2552970	330.55	0.33	0.27	0.25						
Mon 22-Jul-2013	330.57	330.00	2554460	2169	24075	20898	0	5206	100	100	0	2560610	330.65	0.33	0.27	0.25						
Tue 23-Jul-2013	330.69	330.00	2564000	5611	28017	20918	0	5228	3800	40000	0	2577928	330.87	0.33	0.27	0.25						
Wed 24-Jul-2013	330.87	330.00	2577928	4106	19984	20928	0	5183	5083	5283	0	2575907	330.84	0.33	0.27	0.25						
Thu 25-Jul-2013	330.84	330.00	2575907	3695	14695	20928	0	5183	5083	5283	0	2563399	330.68	0.33	0.27	0.25						
Fri 26-Jul-2013	330.68	330.00	2563399	3326	14326	20928	0	5183	5083	5283	0	2550158	330.51	0.33	0.27	0.25						
Sat 27-Jul-2013	330.51	330.00	2550158	7483	16763	16235	0	4021	3921	4121	0	2551057	330.53	0.33	0.27	0.25						
Sun 28-Jul-2013	330.53	330.00	2551057	5062	14342	16235	0	4021	3921	4121	0	2547154	330.48	0.33	0.27	0.25						
Mon 29-Jul-2013	330.48	330.00	2547154	4100	13380	16235	0	4021	3921	4121	0	2541344	330.40	0.33	0.27	0.25						
Tue 30-Jul-2013	330.40	330.00	2541344	3690	12970	16235	0	4021	3921	4121	0	2534721	330.32	0.33	0.27	0.25						
Wed 31-Jul-2013	330.32	330.00	2534721	3321	12601	16235	0	4021	3921	4121	0	2527367	330.22	0.33	0.27	0.25						
Thu 01-Aug-2013	330.22	330.00	2527367	2840	12120	16235	0	4021	3921	4121	0	2519057	330.12	0.33	0.27	0.25						
Fri 02-Aug-2013	330.12	330.00	2519057	2428	11708	16235	0	4021	3921	4121	0	2509931	330.00	0.33	0.27	0.25						
SOP POOL (FT-MSL) RULE CURVE (FT-MSL) STARTING STORAGE (AC-FT) LOCAL IN (CFS) TOTAL IN (CFS) TOTAL OUT (CFS) TOTAL SPILL (CFS) EST GEN (MWH) MIN GEN (MWH) MAX GEN (MWH) EST PUMP (AC-FT) ENDING STORAGE (AC-FT) ENDING POOL (FT-MSL) HART Gen/Q 0.33 RBR Gen/Q 0.27 THUR Gen/Q 0.25																						
Weekly Generation Totals			19096	17696	28147	58100		Current Week				Next Week										
For week beginning Sat 27-Jul			Hartwell	750	Thurmond	31195 (MW-HR) Contracted				31195 (MW-HR) Contracted												
Weekly Average Discharge			8300	9280	16235	119270 (MW-HR) Originally Declared				119270 (MW-HR) Originally Declared												
Current Week Gen Totals			3983	42672	37615	105671 (MW-HR) Observed/Projected				64939 (MW-HR) Declared												
For week beginning Sat 20-Jul			33550	34254	37867	-13599 (MW-HR) Short of Declaration				33744 (MW-HR) Over Contract												
Weekly Average Discharge			14595	18032	21672	74476 (MW-HR) Over Contract				80 unit-hours Pumping Required												
			3987	360	4132	0 unit-hours Pumping				0 unit-hours Pumping Proposed												
REMARKS																						
Note: Generate at least 6 unit-hours of not less than 60 MW within 12 hours prior to pump operation.																						
Hourly Pumping Schedule																						
Start		End			Unit-Hours																	
Wed 07/24 21:00 CDT		Thu 07/25 04:00 CDT			0																	
Thu 07/25 21:00 CDT		Fri 07/26 04:00 CDT			0																	
Fri 07/26 21:00 CDT		Sat 07/27 04:00 CDT			0																	
Sat 07/27 21:00 CDT		Sun 07/28 04:00 CDT			0																	
Sun 07/28 21:00 CDT		Mon 07/29 04:00 CDT			0																	
Mon 07/29 21:00 CDT		Tue 07/30 04:00 CDT			0																	
Tue 07/30 21:00 CDT		Wed 07/31 04:00 CDT			0																	
Wed 07/31 21:00 CDT		Thu 08/01 04:00 CDT			0																	
Thu 08/01 21:00 CDT		Fri 08/02 04:00 CDT			0																	
Fri 08/02 21:00 CDT		Sat 08/03 04:00 CDT			0																	

(Sunset/Sunrise Calculation) http://aa.usno.navy.mil/data/docs/RS_OneYear.html