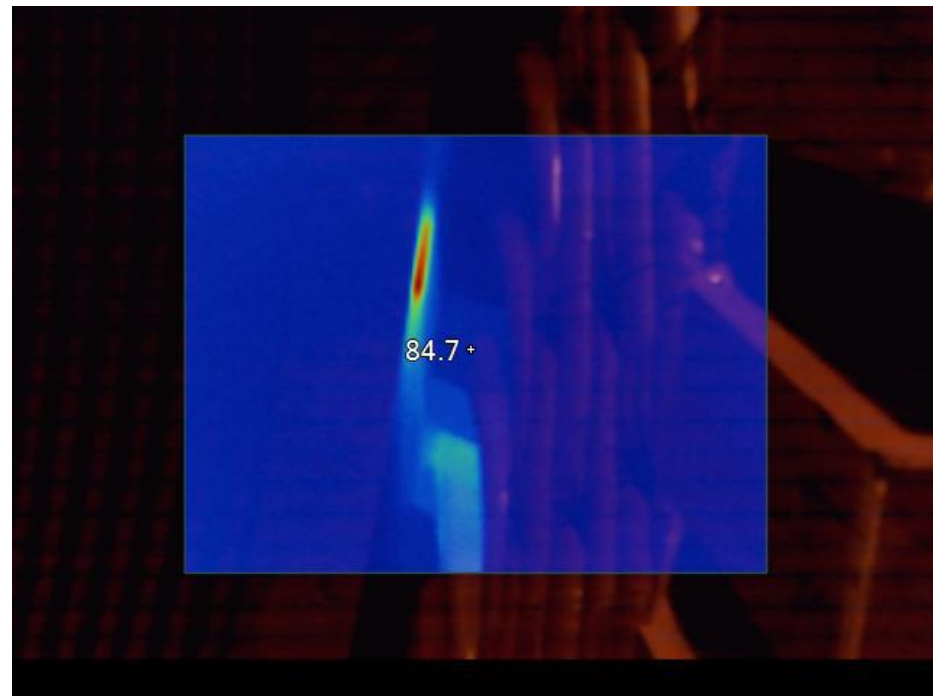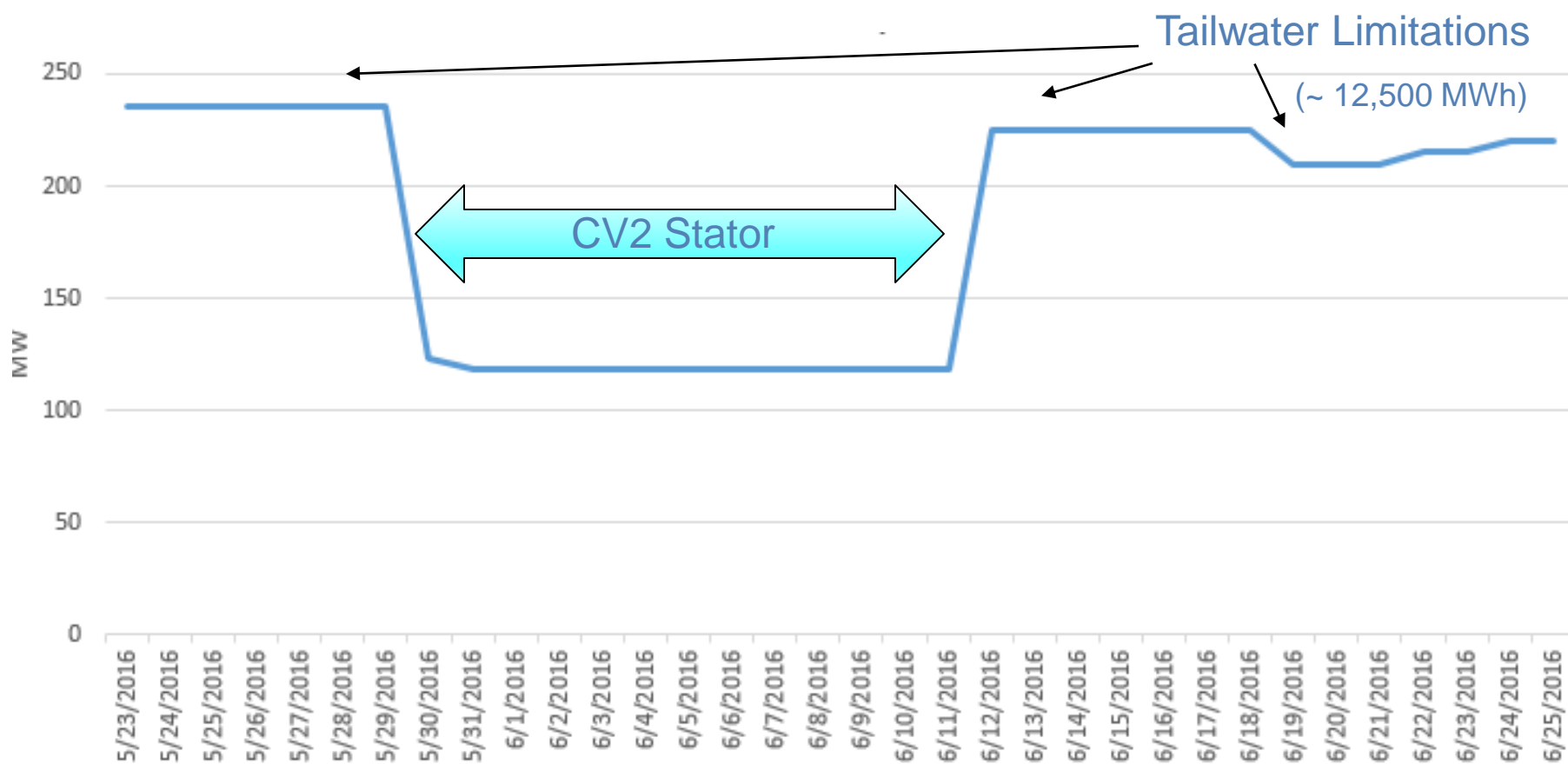# Hydro Update

July 5, 2017

Collierville Unit 2 Stator Ground

Collierville Available Capacity

Dollars & Cents

- ~$850K lost opportunity due to Collierville U2 Stator Fault (between May 30 – June 11)

- ~$450K lost opportunity due to tailwater curtailment (between May 23 – June 25)

- ~$2.4M net revenue during recent heat wave (between June 18 – 25)

Dollars & Cents Details – CV2 Generator Fault

RESOURCE_ID	COLVIL_7_PL1X2													
Sum of AMOUNT	**Column Labels**													
Row Labels	**30-May**	**31-May**	**1-Jun**	**2-Jun**	**3-Jun**	**4-Jun**	**5-Jun**	**6-Jun**	**7-Jun**	**8-Jun**	**9-Jun**	**10-Jun**	**11-Jun**	**Grand Total**
⊟ AncillaryService	$ (1,293)	$ (5,814)	$ (4,723)	$ (4,426)	$ (3,324)	$ (3,679)	$ (4,842)	$ (4,006)	$ (3,717)	$ (5,382)	$ (6,093)	$ (4,462)	$ (6,444)	$ (58,205)
Day Ahead Regulation Down Capacity Settlement	$ (3,127)	$ (5,870)	$ (4,729)	$ (4,425)	$ (3,330)	$ (3,713)	$ (4,792)	$ (3,987)	$ (3,743)	$ (5,362)	$ (5,553)	$ (3,771)	$ (5,700)	$ (58,102)
Day Ahead Regulation Up Capacity Settlement		$ (22)									$ (676)	$ (202)	$ (252)	$ (1,152)
Day Ahead Spinning Reserve Capacity Settlement		$ (60)					$ (55)				$ (491)	$ (488)	$	(1,093)
No Pay Spinning Reserve Settlement		$ 12											$	12
Non Compliance Regulation Down Settlement	$ 1,841	$ 109	$ 19	$ 27	$ 20	$ 52	$ 25	$ 21	$ 51	$ 17	$ 124	$ 37	$ 30	$ 2,375
Non Compliance Regulation Up Settlement		$ 22									$ 28		$	50
Regulation Down Mileage Settlement	$ (7)	$ (6)	$ (13)	$ (29)	$ (14)	$ (19)	$ (21)	$ (40)	$ (25)	$ (37)	$ (16)	$ (33)	$ (33)	$ (293)
Regulation Up Mileage Settlement											$ (0)	$ (2)	$ (1)	$ (3)
⊟ CostRecovery	$ (2,184)	$ (2,925)											$	(5,108)
RUC and RTM Bid Cost Recovery Settlement	$ (2,184)	$ (2,925)											$	(5,108)
⊟ Energy	$ (96,261)	$ (69,960)	$ (61,208)	$ (67,865)	$ (60,586)	$ (54,551)	$ (65,146)	$ (71,294)	$ (73,284)	$ (68,596)	$ (58,330)	$ (34,031)	$ (25,003)	$ (806,114)
Day Ahead Energy, Congestion, Loss Settlement	$ (147,324)	$ (72,935)	$ (61,214)	$ (67,861)	$ (60,590)	$ (54,529)	$ (65,074)	$ (71,257)	$ (73,290)	$ (68,602)	$ (58,343)	$ (32,126)	$ (22,817)	$ (855,961)
FMM Instructed Imbalance Energy Settlement	$ 49,914	$ 1,549					$ (47)	$ (1)			$ (1,847)	$ (1,991)		47,577
Real Time Instructed Imbalance Energy Settlement	$ 1,149	$ 1,426	$ 6	$ (4)	$ 3	$ (22)	$ (26)	$ (36)	$ 6	$ 6	$ 13	$ (58)	$ (194)	$ 2,270
Real Time Uninstructed Imbalance Energy Settlement	$ (0)	$ (0)	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
⊟ Flexible Ramp	$ 9	$ 12	$ 16	$ (17)	$ (5)	$ 5	$ (5)	$ (43)	$ (8)	$ (4)	$ (4)	$ (145)	$ (75)	$ (264)
Daily Flexible Ramp Up Uncertainty Award Allocation	$ 0		$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
Flexible Ramp Down Uncertainty Capacity Settlement											$ (58)	$ (105)	$	(163)
Flexible Ramp Forecasted Movement Settlement	$ 9	$ 12	$ 16	$ (17)	$ (5)	$ 5	$ 24	$ (21)	$ (8)	$ (4)	$ (4)	$ (87)	$ 30	$ (49)
Flexible Ramp Up Uncertainty Capacity Settlement							$ (30)	$ (21)					$	(51)
⊟ GMC	$ 1,617	$ 1,102	$ 993	$ 978	$ 975	$ 971	$ 974	$ 985	$ 983	$ 990	$ 965	$ 931	$ 878	$ 13,343
GMC - Bid Transaction Fee	$ 2	$ 2	$ 1	$ 1	$ 2	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 19
GMC - Market Services Charge	$ 674	$ 290	$ 253	$ 246	$ 243	$ 240	$ 243	$ 253	$ 243	$ 250	$ 240	$ 244	$ 233	$ 3,653
GMC - System Operations Charge	$ 941	$ 810	$ 738	$ 731	$ 731	$ 730	$ 729	$ 731	$ 739	$ 739	$ 724	$ 685	$ 644	$ 9,671
Grand Total	$ (98,111)	$ (77,585)	$ (64,921)	$ (71,330)	$ (62,940)	$ (57,254)	$ (69,020)	$ (74,358)	$ (76,026)	$ (72,992)	$ (63,461)	$ (37,707)	$ (30,644)	**$ (856,348)**

Note: Revenues are for CV1 only. If CV2 had been available, revenues would have been approximately double.

Dollars & Cents Details – Heat Wave

Sum of AMOUNT Row Labels	6/18/2017	6/19/2017	6/20/2017	6/21/2017	6/22/2017	6/23/2017	6/24/2017	6/25/2017	Grand Total
⊟COLVIL_7_PL1X2	$ (189,726)	$ (272,130)	$ (336,336)	$ (577,477)	$ (478,490)	$ (189,442)	$ (149,913)	$ (143,521)	$ (2,337,036)
⊟AncillaryService	$ (1,489)	$ (379)	$ (1,158)	$ (1,210)	$ (652)	$ (1,839)	$ (919)	$ (1,183)	$ (8,827)
Day Ahead Regulation Down Capacity Settlement	$ (1,552)	$ (384)	$ (1,177)	$ (1,241)	$ (662)	$ (1,881)	$ (945)	$ (1,224)	$ (9,066)
Non Compliance Regulation Down Settlement	$ 74	$ 9	$ 36	$ 40	$ 20	$ 58	$ 29	$ 49	$ 315
Regulation Down Mileage Settlement	$ (11)	$ (4)	$ (17)	$ (9)	$ (9)	$ (16)	$ (3)	$ (9)	$ (76)
⊟Energy	$ (190,191)	$ (273,686)	$ (337,002)	$ (578,093)	$ (479,649)	$ (189,482)	$ (150,843)	$ (144,228)	$ (2,343,175)
Day Ahead Energy, Congestion, Loss Settlement	$ (190,133)	$ (289,145)	$ (336,822)	$ (578,216)	$ (479,662)	$ (189,500)	$ (150,760)	$ (144,233)	$ (2,358,471)
FMM Instructed Imbalance Energy Settlement		$ 14,826							$ 14,826
Real Time Instructed Imbalance Energy Settlement	$ (57)	$ 633	$ (180)	$ 123	$ 12	$ 18	$ (83)	$ 4	$ 471
Real Time Uninstructed Imbalance Energy Settlement	$ (0)	$ (0)	$ (0)	$ 0	$ (0)	$ (0)	$ (0)	$ (0)	$ (0)
⊟Flexible Ramp	$ (6)	$ 33	$ 8	$ 4	$ (8)	$ 5	$ (18)	$ (6)	$ 12
Daily Flexible Ramp Up Uncertainty Award Allocation		$ 0			$ 0				$ 0
Flexible Ramp Forecasted Movement Settlement	$ (6)	$ 33	$ 8	$ 4	$ (8)	$ 5	$ (17)	$ (6)	$ 13
Flexible Ramp Up Uncertainty Capacity Settlement							$ (1)		$ (1)
⊟GMC	$ 1,959	$ 1,902	$ 1,817	$ 1,822	$ 1,819	$ 1,873	$ 1,867	$ 1,896	$ 14,955
GMC - Bid Transaction Fee	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 11
GMC - Market Services Charge	$ 441	$ 472	$ 411	$ 410	$ 406	$ 429	$ 421	$ 429	$ 3,420
GMC - System Operations Charge	$ 1,517	$ 1,429	$ 1,404	$ 1,411	$ 1,411	$ 1,443	$ 1,445	$ 1,465	$ 11,524
⊞SPICER_1_UNITS	$ (4,941)	$ (7,530)	$ (9,298)	$ (16,809)	$ (13,510)	$ (5,176)	$ (4,253)	$ (3,967)	$ (65,486)
Grand Total	$ (194,667)	$ (279,661)	$ (345,634)	$ (594,286)	$ (492,001)	$ (194,619)	$ (154,166)	$ (147,489)	$ (2,402,521)

New Spicer Meadow Dam, PH, & Spillway