

Case No. 10-2368-EL-REN
Auglaize Hydroelectric Plant Unit 3
Staff Interrogatories – Initial Set

Question 1: If the capacity of unit 3 has increased due to repairs and retrofits that were done since January 1, 1998, please submit the following:

- Documentation showing the capacity of unit 3 pre-January 1, 1998
- Documentation proving the capacity increase of unit 3 due to repairs and retrofits since January 1, 1998

Answer 1:

- This unit was installed in 1993. The unit was not in operation in 1995 when a feasibility study was performed but a comment by an operator stated it had been run at 45%. The first documentation that indicates a test of the unit being performed was in a report faxed to Craig Preston on January 30, 1998 from the operator at the time stating the unit was back up to 1000 kW. A copy of this report is included. There are Operation Log entries that support this was the maximum output during 1997 and 1998.
- New SCADA installed 2009
- Included is a 2010 SCADA report with a maximum output during one hour run of the new Unit 3.
- Included is a 2002 SCADA report of the highest 24 hour old Unit 3 average output under normal operating conditions.
- Included is a 2010 SCADA of the highest 24 hr new Unit 3 average output under normal operating conditions.

CRAIG,

HERE'S A LIST OF THE WORK WE ACCOMPLISHED
WHILE LEE MECHANICAL WAS HERE:

1. #3 MACHINE

- A. MOUNTED NEW ACCUMULATOR TANKS, REPLUMPED PIPES TO THE TANKS, AND CHARGED TANKS.
- B. 2 OF THE 4 AIR BRAKES WERE ENGAGED AT ALL TIMES, REPAIRED THE 2 THAT WERE STICKING.
- C. CLEANED STICKS THAT WERE JAMMED BETWEEN THE RUNNER BLADES AND THE DISCHARGE CASE.
- D. INSPECTED COMPLETE UNIT
- E. MACHINE IS BACK UP TO 1000 KWS (RIVER WAS RIGHT AT CREST OF DAM WHEN WE TESTED IT, I THINK IT WILL COME UP MORE WITH MORE HEAD)

2. INSTALLED WATER LEVEL SENSOR

- A. MOUNTED 6" PVC PIPE (20 FEET) TO WALL BY #5 UNIT AND #1 FLOODGATE
- B. RAN CONDUIT FROM PVC PIPE BACK TO CONTROL ROOM
- C. INSTALLED METER IN CONTROL ROOM, CONNECTED METER

Unit #3 Daily Production From SCADA June 2010

TIME	GenHoursOnline	Positive mWh (cumulative)	Hrs	kWh (daily)	AveragekW
06/01/2010 00:00	15797.00	3586.99	6	5020	837
06/02/2010 00:00	15821.00	3609.75	24	22760	948
06/03/2010 00:00	15844.00	3631.60	23	21850	950
06/04/2010 00:00	15867.00	3653.39	23	21790	947
06/05/2010 00:00	15881.00	3666.75	14	13360	954
06/06/2010 00:00	15885.00	3670.62	4	3870	967
06/07/2010 00:00	15909.00	3693.82	24	23200	967
06/08/2010 00:00	15933.00	3717.64	24	23820	992
06/09/2010 00:00	15956.00	3739.65	23	22010	957
06/10/2010 00:00	15980.00	3763.55	24	23900	996
06/11/2010 00:00	16004.00	3786.12	24	22570	940
06/12/2010 00:00	16027.00	3808.13	23	22010	957
06/13/2010 00:00	16051.00	3830.95	24	22820	951
06/14/2010 00:00	16075.00	3852.42	24	21470	895
06/15/2010 00:00	16099.00	3873.87	24	21450	894
06/16/2010 00:00	16123.00	3895.40	24	21530	897
06/17/2010 00:00	16147.00	3914.43	24	19030	793
06/18/2010 00:00	16170.00	3935.06	23	20630	897
06/19/2010 00:00	16193.00	3957.57	23	22510	979
06/20/2010 00:00	16212.00	3975.67	19	18100	953
06/21/2010 00:00	16212.00	3975.67	0	0	0
06/22/2010 00:00	16213.00	3977.21	1	1540	1540
06/23/2010 00:00	16220.00	3983.18	7	5970	853
06/24/2010 00:00	16220.00	3983.18	0	0	0
06/25/2010 00:00	16220.00	3983.18	0	0	0
06/26/2010 00:00	16220.00	3983.18	0	0	0
06/27/2010 00:00	16220.00	3983.18	0	0	0
06/28/2010 00:00	16220.00	3983.18	0	0	0
06/29/2010 00:00	16222.00	3986.01	2	2830	1415
06/30/2010 00:00	16246.00	4008.72	24	22710	946

Peak output on 6/22/2010 for 1 hr = 1540 kW

Unit #3 Daily Production From SCADA May 2002

Unit #3 Monthly Output				
OnPeak/offPeak Report				
From: 5/1/2002 12:00:00 AM To: 5/31/2002 11:45:00 PM Interval: 1 Minute Average				
Adding Items: 2031		On Peak Total = 14066.86		
Subtracting Items:		Off Peak Total = 9135.74		
Accumulated Total: 23202.60		Load Factor (%): 3.08		Percent good: 99.35
Date	On Peak Total	Off Peak Total	Daily Total	Day
5/1/2002	14066.86	8089.83	22156.69	Wed
5/2/2002	0.00	1045.91	1045.91	Thu
5/3/2002	0.00	0.00	0.00	Fri
5/4/2002	0.00	0.00	0.00	Sat
5/5/2002	0.00	0.00	0.00	Sun
5/6/2002	0.00	0.00	0.00	Mon
5/7/2002	0.00	0.00	0.00	Tue
5/8/2002	0.00	0.00	0.00	Wed
5/9/2002	0.00	0.00	0.00	Thu
5/10/2002	0.00	0.00	0.00	Fri
5/11/2002	0.00	0.00	0.00	Sat
5/12/2002	0.00	0.00	0.00	Sun
5/13/2002	0.00	0.00	0.00	Mon
5/14/2002	0.00	0.00	0.00	Tue
5/15/2002	0.00	0.00	0.00	Wed
5/16/2002	0.00	0.00	0.00	Thu
5/17/2002	0.00	0.00	0.00	Fri
5/18/2002	0.00	0.00	0.00	Sat
5/19/2002	0.00	0.00	0.00	Sun
5/20/2002	0.00	0.00	0.00	Mon
5/21/2002	0.00	0.00	0.00	Tue
5/22/2002	0.00	0.00	0.00	Wed
5/23/2002	0.00	0.00	0.00	Thu
5/24/2002	0.00	0.00	0.00	Fri
5/25/2002	0.00	0.00	0.00	Sat
5/26/2002	0.00	0.00	0.00	Sun
5/27/2002	0.00	0.00	0.00	Mon
5/28/2002	0.00	0.00	0.00	Tue
5/29/2002	0.00	0.00	0.00	Wed
5/30/2002	0.00	0.00	0.00	Thu
5/31/2002	0.00	0.00	0.00	Fri

Maximum one day output for 2002 occurred on 5/1
 Recorded 22,156.69 kWh for 24 hour period
 $22,156.69 \text{ kWh} / 24 \text{ hr} = 923 \text{ kW}$ average output

Unit #3 Daily Production From SCADA July 2010

TIME	Positive mWh (cumulative)	kWh (daily)
07/01/2010 00:00	4031.00	22280
07/02/2010 00:00	4055.52	24520
07/03/2010 00:00	4068.40	12880
07/04/2010 00:00	4068.40	0
07/05/2010 00:00	4068.40	0
07/06/2010 00:00	4068.40	0
07/07/2010 00:00	4068.40	0
07/08/2010 00:00	4068.40	0
07/09/2010 00:00	4070.81	2410
07/10/2010 00:00	4070.81	0
07/11/2010 00:00	4070.81	0
07/12/2010 00:00	4070.81	0
07/13/2010 00:00	4070.81	0
07/14/2010 00:00	4070.81	0
07/15/2010 00:00	4070.81	0
07/16/2010 00:00	4070.81	0
07/17/2010 00:00	4070.81	0
07/18/2010 00:00	4070.81	0
07/19/2010 00:00	4070.81	0
07/20/2010 00:00	4070.81	0
07/21/2010 00:00	4070.81	0
07/22/2010 00:00	4070.81	0
07/23/2010 00:00	4070.81	0
07/24/2010 00:00	4073.81	3000
07/25/2010 00:00	4073.81	0
07/26/2010 00:00	4073.81	0
07/27/2010 00:00	4073.81	0
07/28/2010 00:00	4073.81	0
07/29/2010 00:00	4073.81	0
07/30/2010 00:00	4073.81	0
07/31/2010 00:00	4073.81	0

Maximum one day output for 2010 occurred on 7/2

Recorded 24,520 kWh for 24 hour period

$24,520 \text{ kWh} / 24 \text{ hr} = 1,022 \text{ kW}$ average output

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Summary: Response to interrogatories from Mathew Killion electronically filed by Mr. Craig K. Preston on behalf of CITY OF BRYAN