

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 1

Pump Coordinator Roles and Responsibilities

11/7/2015
Pump
Run

Date / Time

EVENT LOG BOOK

Page 1 of 1

11/8/1200 No Pumping today as we did not
Achieve the 504 Acre Feet before
1200 hr.

Brad Ponegalek

Brad Ponegalek

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	11	Day	07	Year	2015
Time	West Pump (107942)	Center Pump (107941)	East Pump (107940)	North Canal Level	South Canal Level	System Checksheet			
00:00	Flow: Total:	Flow: Total:	Flow: Total:						
01:00	Flow: Total:	Flow: Total:	Flow: Total:						
02:00	Flow: Total:	Flow: Total:	Flow: Total:						
03:00	Flow: Total:	Flow: Total:	Flow: Total:						
04:00	Flow: Total:	Flow: Total:	Flow: Total:						
05:00	Flow: Total:	Flow: Total:	Flow: Total:						
06:00	Flow: Total:	Flow: Total:	Flow: Total:						
07:00	Flow: Total:	Flow: Total:	Flow: Total:						
08:00	Flow: Total:	Flow: Total:	Flow: Total:						
09:00	Flow: Total:	Flow: Total:	Flow: Total:						
10:00	Flow: Total:	Flow: Total:	Flow: Total:						
11:00	Flow: Total:	Flow: Total:	Flow: Total:						
12:00	Flow: Total:	Flow: Total:	Flow: Total:						
13:00	Flow: Total:	Flow: Total:	Flow: Total:						
14:00	Flow: Total:	Flow: Total:	Flow: Total:						
15:00	Flow: Total:	Flow: Total:	Flow: Total:						
16:00	Flow: Total:	Flow: Total:	Flow: Total:						
17:00	Flow: Total:	Flow: Total:	Flow: Total:						
18:00	Flow: Total:	Flow: Total:	Flow: Total:						
19:00	Flow: Total:	Flow: Total:	Flow: Total:						
20:00	Flow: Total:	Flow: Total:	Flow: Total:						
21:00	Flow: Total:	Flow: Total:	Flow: Total:						
22:00	Flow: Total:	Flow: Total:	Flow: Total:						
23:00	Flow: Total:	Flow: Total:	Flow: Total:						
23:59	Flow: Total:	Flow: Total:	Flow: Total:						

LESS THAN 504

NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

11/07/15

**INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM
ATTACHMENT 3**

SOUTH PUMP STATION HOURLY LOG SHEET				Month 11	Day 07	Year 2015
Time	North Pump (107944)	South Pump (107939)		North Canal Level	South Canal Level	System Check Sat
00:00	Flow: Total:	Flow: Total:				
01:00	Flow: Total:	Flow: Total:				
02:00	Flow: Total:	Flow: Total:				
03:00	Flow: Total:	Flow: Total:				
04:00	Flow: Total:	Flow: Total:				
05:00	Flow: Total:	Flow: Total:				
06:00	Flow: Total:	Flow: Total:				
07:00	Flow: Total:	Flow: Total:				
08:00	Flow: Total:	Flow: Total:				
09:00	Flow: Total:	Flow: Total:				
10:00	Flow: Total:	Flow: Total:				
11:00	Flow: Total:	Flow: Total:				
12:00	Flow: Total:	Flow: Total:				
13:00	Flow: Total:	Flow: Total:				
14:00	Flow: Total:	Flow: Total:				
15:00	Flow: Total:	Flow: Total:				
16:00	Flow: Total:	Flow: Total:				
17:00	Flow: Total:	Flow: Total:				
18:00	Flow: Total:	Flow: Total:				
19:00	Flow: Total:	Flow: Total:				
20:00	Flow: Total:	Flow: Total:				
21:00	Flow: Total:	Flow: Total:				
22:00	Flow: Total:	Flow: Total:				
23:00	Flow: Total:	Flow: Total:				
23:59	Flow: Total:	Flow: Total:				

LESS THAN 504

NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

11/07/15

11/8 Pump Run

Page 1 of 1

EVENT LOG BOOK

11/9	1404	STARTED North pumps
11/9	1409	STARTED South pumps
1500	North pump Station	3,570,784
1500	South pump Station	3,293,682
1600	North station Pumped	3,773,260
1600	South station Pumped	3,923,130
1700	North station Pumped	3,762,750
1700	South station Pumped	3,924,270
1800	North station Pumped	3,770,850
1800	South station Pumped	3,865,560
1900	North station Pumped	3,783,420
1900	South station Pumped	3,843,690
1000	North station Pumped	3,803,940
1000	South station Pumped	3,926,430
1100	North station Pumped	3,819,930
1100	South station Pumped	3,937,830
1155	North station Pumped	3,552,36
1146	South station Pumped	3,113,54

1/1200	Total North Station Pumped	29,837,301
1/1200	Total South Station Pumped	29,828,136

11-8-15 - 11-9-15

Debbie Cooper & Brian Ingraham

Rev 8, 10/01/2015

Pump Run 11/8
INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

Pump Run 11/8

North station

Total water Pumped

North 29,837,301 gals

South 29,828,136 gals

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Bryan H. Giam

REV 8, 10/01/2015

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET

Month 11 Day 9 Year 15

Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:				-.40	.600	✓
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:				-.35	.600	✓
4:00	Flow:	Flow:	Flow:						
04:00	24089	ERROR	19562	576	576	576	-.35	.600	✓
4:00	Total:	Total:	Total:						
	44034594	ERROR	77433117						
5:00	Flow:	Flow:	Flow:						
	21827	ERROR	19850	576	576	576	-.30	.600	✓
5:00	Total:	Total:	Total:						
	45188330	ERROR	78446858						
6:00	Flow:	Flow:	Flow:						
	21727	ERROR	19838	576	576	576	-.2	.7	✓
6:00	Total:	Total:	Total:						
	46476951	ERROR	79620477						
7:00	Flow:	Flow:	Flow:						
	21874	ERROR	19786	576	576	576	-.2	.7	✓
7:00	Total:	Total:	Total:						
	47744813	ERROR	80814071						
8:00	Flow:	Flow:	Flow:						
	21883	ERROR	19952	576	576	576	-.1	.7	✓
8:00	Total:	Total:	Total:						
	49188778	ERROR	82008828						
9:00	Flow:	Flow:	Flow:						
	21971	ERROR	20108	576	576	576	-.1	.7	✓
9:00	Total:	Total:	Total:						
	50426918	ERROR	83211904						
10:00	Flow:	Flow:	Flow:						
	22223	ERROR	20296	576	576	576	.0	.7	✓
10:00	Total:	Total:	Total:						
	51752914	ERROR	84423894						
11:00	Flow:	Flow:	Flow:						
	22424	ERROR	20188	576	576	576	.0	.7	✓
11:00	Total:	Total:	Total:						
	53076618	ERROR	85639508						
11:55	Flow:	Flow:	Flow:						
	22353	ERROR	20189	576	576	576	.0	.7	✓
11:55	Total:	Total:	Total:						
	57297991	ERROR	86731671	60112	60112	60112			

PUMP OPERATOR 11-9-15

Date 11-9-15 Cooper

VERIFIED BY PUMP

COORDINATOR 11-9-15 Date 11-9-15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET

Month Day Year

Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

 PUMP
OPERATOR _____

 VERIFIED BY PUMP
COORDINATOR _____

Date _____

Kyle Carr

ERSCCASH

Rev 8, 10/01/201

SECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

11/9/15

Revision No. 08

Author:

Patricia Ward

Date:

10/1/15

Approved:

Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

South Station

11/8 pump Run

Nan Sweeney - Nights

Eric Cash - Days

Total water Pumped into

CCS: 29,828,136 gals

North: 29,837,301 gals

ELCCASH

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

11/8 Pump Run

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>11</u> Day <u>9</u> Year <u>15</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat.
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00 4:09	Flow: 33892	Flow: 30021			.06	✓
4:00 4:09	Total: 16396896	Total: 60047496			.06	✓
5:00	Flow: 33290	Flow: 31940			.06	✓
5:00	Total: 17085487	Total: 61450614			.06	✓
6:00	Flow: 33602	Flow: 31919	5918	5918	.6	✓
6:00	Total: 199176714	Total: 63452525			.6	
7:00	Flow: 33336	Flow: 31152	5918	5918	.6	✓
7:00	Total: 21934238	Total: 6537537				
8:00	Flow: 34514	Flow: 22050	5918	5918	.6	✓
8:00	Total: 259128251	Total: 67176252				
9:00	Flow: 34175	Flow: 30341	5918	5918	.6	✓
9:00	Total: 260691406	Total: 69011928				
10:00	Flow: 34605	Flow: 31517	5918	5918	.6	✓
10:00	Total: 28069338	Total: 70711631				
11:00	Flow: 34839	Flow: ERROR	5918	5918	.6	✓
11:00	Total: 30237675	Total: 71176812				
12:00	Flow: 34692	Flow: ERROR	5918	5918	.6	✓
12:00	Total: 314810437	Total: 71730699				

PUMP OPERATOR ELCCASH

VERIFIED BY PUMP
COORDINATOR

A. Cooper

11/9/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No.Pump	RPM So.Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 1

Pump Coordinator Roles and Responsibilities

11/9

Pump Run

Date / Time

EVENT LOG BOOK

Page 1 of 1

11/10 / 12:00

NO Pumping Today as 504 Acre
Feet was not Achieved by 12:00 HR.

Ben
Pump

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET Month **11** Day **09** Year **2015**

Time	West Pump (107942)	Center Pump (107941)	East Pump (107940)	North Canal Level	South Canal Level	System Checks at
00:00	Flow: Total:	Flow: Total:	Flow: Total:			
01:00	Flow: Total:	Flow: Total:	Flow: Total:			
02:00	Flow: Total:	Flow: Total:	Flow: Total:			
03:00	Flow: Total:	Flow: Total:	Flow: Total:			
04:00	Flow: Total:	Flow: Total:	Flow: Total:			
05:00	Flow: Total:	Flow: Total:	Flow: Total:			
06:00	Flow: Total:	Flow: Total:	Flow: Total:			
07:00	Flow: Total:	Flow: Total:	Flow: Total:			
08:00	Flow: Total:	Flow: Total:	Flow: Total:			
09:00	Flow: Total:	Flow: Total:	Flow: Total:			
10:00	Flow: Total:	Flow: Total:	Flow: Total:			
11:00	Flow: Total:	Flow: Total:	Flow: Total:			
12:00	Flow: Total:	Flow: Total:	Flow: Total:			
13:00	Flow: Total:	Flow: Total:	Flow: Total:			
14:00	Flow: Total:	Flow: Total:	Flow: Total:			
15:00	Flow: Total:	Flow: Total:	Flow: Total:			
16:00	Flow: Total:	Flow: Total:	Flow: Total:			
17:00	Flow: Total:	Flow: Total:	Flow: Total:			
18:00	Flow: Total:	Flow: Total:	Flow: Total:			
19:00	Flow: Total:	Flow: Total:	Flow: Total:			
20:00	Flow: Total:	Flow: Total:	Flow: Total:			
21:00	Flow: Total:	Flow: Total:	Flow: Total:			
22:00	Flow: Total:	Flow: Total:	Flow: Total:			
23:00	Flow: Total:	Flow: Total:	Flow: Total:			
23:59	Flow: Total:	Flow: Total:	Flow: Total:			

LESS THAN 504
NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

11/09/15

**INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM
ATTACHMENT 3**

SOUTH PUMP STATION HOURLY LOG SHEET				Month 11	Day 09	Year 2015
Time	North Pump (107944)	South Pump (107939)		North Canal Level	South Canal Level	System Check Sat
00:00	Flow: Total:	Flow: Total:				
01:00	Flow: Total:	Flow: Total:				
02:00	Flow: Total:	Flow: Total:				
03:00	Flow: Total:	Flow: Total:				
04:00	Flow: Total:	Flow: Total:				
05:00	Flow: Total:	Flow: Total:				
06:00	Flow: Total:	Flow: Total:				
07:00	Flow: Total:	Flow: Total:				
08:00	Flow: Total:	Flow: Total:				
09:00	Flow: Total:	Flow: Total:				
10:00	Flow: Total:	Flow: Total:				
11:00	Flow: Total:	Flow: Total:				
12:00	Flow: Total:	Flow: Total:				
13:00	Flow: Total:	Flow: Total:				
14:00	Flow: Total:	Flow: Total:				
15:00	Flow: Total:	Flow: Total:				
16:00	Flow: Total:	Flow: Total:				
17:00	Flow: Total:	Flow: Total:				
18:00	Flow: Total:	Flow: Total:				
19:00	Flow: Total:	Flow: Total:				
20:00	Flow: Total:	Flow: Total:				
21:00	Flow: Total:	Flow: Total:				
22:00	Flow: Total:	Flow: Total:				
23:00	Flow: Total:	Flow: Total:				
23:59	Flow: Total:	Flow: Total:				

LESS THAN 504

NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

11/09/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 1

Pump Coordinator Roles and Responsibilities

11/10
Pump Run

Date / Time

EVENT LOG BOOK

Page 1 of 1

11/11/230 prepped Pump Stations and performed
Wildlife checks

11/11/1420 Started North pumps

11/11/1425 Started South pumps

11/11/1

1500 North Station Pumped 2,593,600

1500 South Station Pumped 2,303,175

1600 South Station Pumped 3,967,890

1600 North Station Pumped 3,841,980

1700 North Station Pumped 3,845,730

1700 South Station Pumped 3,943,410

1800 North Station Pumped 3,849,520

1800 South Station Pumped 3,953,010

1810 Turned South Station down from 57 Hz to 56 Hz.

1900 North Station Pumped 3,848,910

1900 South Station Pumped 3,970,530

10:00 NORTH STATION PUMPED 3,850,830

10:00 SOUTH STATION PUMPED 3,989,820

11:00 NORTH STATION PUMPED 3,863,250

11:00 SOUTH STATION PUMPED 4,006,440

11:55 NORTH STATION PUMPED 3,552,725

11:45 South STATION PUMPED 3,011,512

11200 Total water Pumped by North Station = 29,246,595

11/11/1200 Total Water Pumped by South Station into CCS = 29,146,787

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Kyle Carr

Revision No. 08

Author:

Calvin Ward

Date:

10/1/15

Approved:

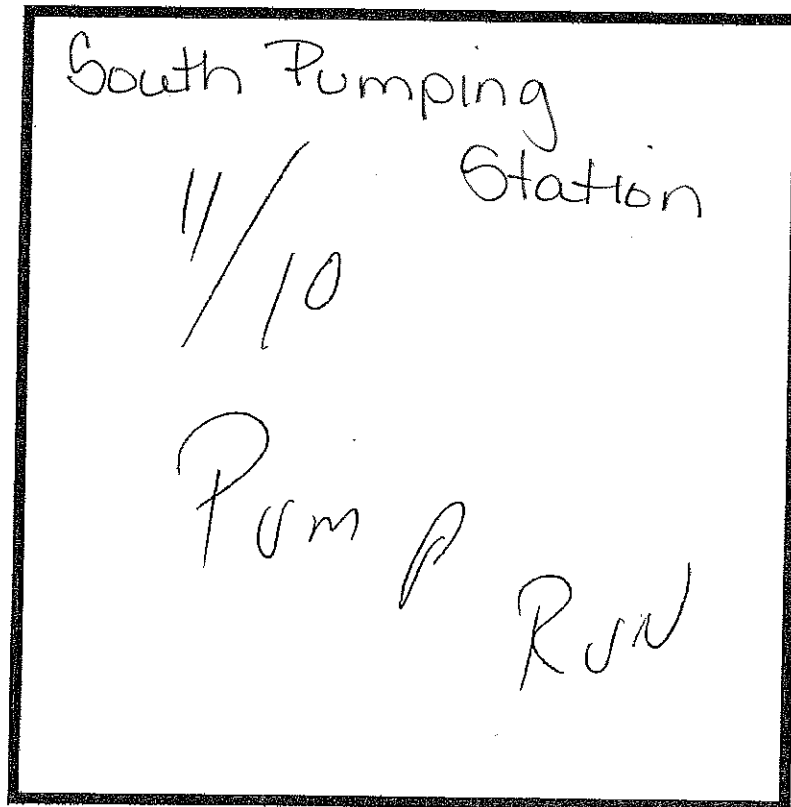
Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET			Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat	
00:00	Flow:	Flow:					
00:00	Total:	Total:					
1:00	Flow:	Flow:					
1:00	Total:	Total:					
2:00	Flow:	Flow:					
2:00	Total:	Total:					
3:00	Flow:	Flow:					
3:00	Total:	Total:					
4:00	Flow:	Flow:					
4:25	34127	30932	598	598	✓	✓	
4:00	Total:	Total:					
4:25	31942559	71254182			0.55		
5:00	Flow:	Flow:					
	83694	81855	598	598	0.55	✓	
5:00	Total:	Total:					
	33061695	72302530					
6:00	Flow:	Flow:					
	33726	31998	598	598	.55	✓	
6:00	Total:	Total:					
	35072822	74209750					
7:00	Flow:	Flow:					
	33686	32047	598	598	.55	✓	
7:00	Total:	Total:					
	37124503	76159583					
8:00	Flow:	Flow:					
	33987	Error	598	598	.55	✓	
8:00	Total:	Total:					
	39108756	77989102					
9:00	Flow:	Flow:					
	34270	Error	588	588	.55	✓	
9:00	Total:	Total:					
	41151056	78535552					
10:00	Flow:	Flow:					
	34630	Error					
10:00	Total:	Total:					
	43202978	81112301	588	588	.55	✓	
11:00	Flow:	Flow:					
	34824	Error	588	588	.55	✓	
11:00	Total:	Total:					
	45296630	81357169					
12:00	Flow:	Flow:					
	34927	Error	588	588			
12:00	Total:	Total:					
	46862658	81381460			.55	✓	
11:45							

PUMP OPERATOR Kyle CarrVERIFIED BY PUMP
COORDINATOR A. Cooper

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

11-10-15-11-11-15

Rev 8, 10/01/2015

SECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Palmi Ward

Date:

10/1/15

Approved:

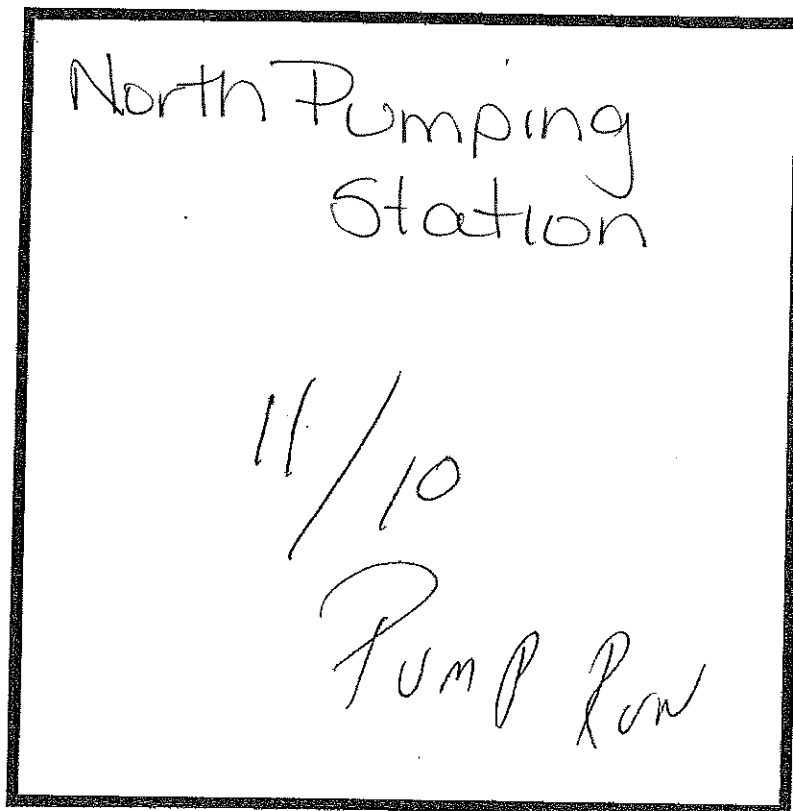
Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>11</u> Day <u>11</u> Year <u>15</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
0420	23653	ERROR	ERROR	576	576	576	- .40	.60	✓
4:00	Total:	Total:	Total:						
	54384570	ERROR	ERROR						
5:00	Flow:	Flow:	Flow:						
	21827	ERROR	ERROR	576	576	576	- .45	.60	✓
5:00	Total:	Total:	Total:						
	55167777	ERROR	ERROR						
6:00	Flow:	Flow:	Flow:						
	21839	ERROR	ERROR	576	576	576	- .4	.6	✓
6:00	Total:	Total:	Total:						
	56456867	ERROR	ERROR	6042	6042	6042			
7:00	Flow:	Flow:	Flow:						
	21952	ERROR	ERROR	576	576	576	- .3	.6	✓
7:00	Total:	Total:	Total:						
	57862289	ERROR	ERROR						
8:00	Flow:	Flow:	Flow:						
	21967	ERROR	ERROR				- .2	.6	✓
8:00	Total:	Total:	Total:						
	59081342	ERROR	ERROR	576	576	576			
9:00	Flow:	Flow:	Flow:						
	21930	ERROR	ERROR	576	576	576	- .2	.6	✓
9:00	Total:	Total:	Total:						
	60403904	ERROR	ERROR						
10:00	Flow:	Flow:	Flow:						
	22031	ERROR	ERROR	576	576	576	- .1	.6	✓
10:00	Total:	Total:	Total:						
	61721798	ERROR	ERROR						
11:00	Flow:	Flow:	Flow:						
	22344	ERROR	ERROR	576	576	576	- .1	.6	✓
11:00	Total:	Total:	Total:						
	63050566	ERROR	ERROR						
11:55	Flow:	Flow:	Flow:						
	22446	ERROR	ERROR	576	576	576	- 0	.6	✓
11:55	Total:	Total:	Total:						
	64257682	ERROR	ERROR						

PUMP OPERATOR: (Signature)

Date: 11/11/15

VERIFIED BY PUMP

COORDINATOR: (Signature)

Date: 11/11/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR

VERIFIED BY PUMP
COORDINATOR

Date:

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

Debbie Cooper
Brian Ingraham

11/12/15 Pump Run

Total gallons pumped
into the CCS.

18,430,289 gals

L-31 North

18,787,248

North Pumping Station

Bryan Ingram

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>11</u> Day <u>13</u> Year <u>2015</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
4:00	Total:	Total:	Total:						
5:00	Flow:	Flow:	Flow:				-.30	.60	✓
5:00	Total:	Total:	Total:						
6:00	Flow:	Flow:	Flow:						
6:00	Total:	Total:	Total:						
7:00	Flow: <u>23932</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	-.4	.6	✓
7:00	Total: <u>6433872</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
8:00	Flow: <u>21575</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	-.3	.6	✓
8:00	Total: <u>6554375</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
9:00	Flow: <u>21848</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	-.2	.6	✓
9:00	Total: <u>6685676</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
10:00	Flow: <u>22097</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	-.2	.6	✓
10:00	Total: <u>68171384</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
11:00	Flow: <u>22189</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	-.1	.6	✓
11:00	Total: <u>69492493</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
11:55	Flow: <u>22112</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	576	576	576	.0	.6	✓
	Total: <u>70688199</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>	60 Hz	60 Hz	60 Hz			

PUMP OPERATOR

Date

VERIFIED BY PUMP

COORDINATOR

Date: 11/13/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

ERIC CASH 11/13/15
Kyle Carr Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Calvin Ward

Date:

10/1/15

Approved:

Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

11/12/15 Pump Run

Total gallons Pumped into CCS

From L-31 South

18,430,289 gals

L-31 North

18,787,248

South Pump Station

ERSCCASH

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Month		Day		Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
6:00	Flow:	Flow:				
6:00	Total:	Total:				
7:00 7:06	Flow: 33795	Flow: 30064	5916	5916	.55	✓
7:00 7:08	Total: 46934003	Total: 81383571				
8:00	Flow: 34114	Flow: 31150	5916	5916	.55	✓
8:00	Total: 48686070	Total: 82915342				
9:00	Flow: 31723	Flow: 30354	5916	5916	.55	✓
9:00	Total: 50706535	Total: 44710840				
10:00	Flow: 34844	Flow: 30337	5916	5916	.55	✓
10:00	Total: 55617091	Total: 86541705				
11:00	Flow: 55162	Flow: ERROR	5916	5916	.55	✓
11:00	Total: 54709065	Total: 87000120				
12:00	Flow: 35675	Flow:	5916	5916	.55	✓
12:00	Total: 56645693	Total: 87469102				

PUMP OPERATOR ERSCCASH

11/13/15

VERIFIED BY PUMP
COORDINATOR

A. Cooper 11/13/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET			Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat	
13:00	Flow:	Flow:					
13:00	Total:	Total:					
14:00	Flow:	Flow:					
14:00	Total:	Total:					
15:00	Flow:	Flow:					
15:00	Total:	Total:					
16:00	Flow:	Flow:					
16:00	Total:	Total:					
17:00	Flow:	Flow:					
17:00	Total:	Total:					
18:00	Flow:	Flow:					
18:00	Total:	Total:					
19:00	Flow:	Flow:					
19:00	Total:	Total:					
20:00	Flow:	Flow:					
20:00	Total:	Total:					
21:00	Flow:	Flow:					
21:00	Total:	Total:					
22:00	Flow:	Flow:					
22:00	Total:	Total:					
23:00	Flow:	Flow:					
23:00	Total:	Total:					
24:00	Flow:	Flow:					
24:00	Total:	Total:					

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Page 1 of 1

Time	Station	Pumps	Gallons Pumped
11/14/11:15	North	started	
11/14/11:20	South	started	
11/14/8:00	North	Station Pumped	= 2,897,145
11/14/8:00	South	Station Pumped	= 2,620,860
11/14/9:00	North	Station Pumped	= 3,826,980
11/14/9:00	South	Station Pumped	= 3,932,250
11/14/10:00	North	Station Pumped	= 3,836,280
11/14/10:00	South	Station Pumped	= 3,894,600
11/14/11:00	North	Station Pumped	= 3,836,400
11/14/11:00	South	Station Pumped	= 3,944,190
11/14/11:55	North	Station Pumped	= 3,507,777
11/14/11:50	South	Station Pumped	= 3,296,400
11/14/12:00	Total Gallons Pumped by North Station		= 17,904,582
11/14/12:00	Total Gallons Pumped by South Station		= 17,688,300

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Calvin Ward

Date:

10/1/15

Approved:

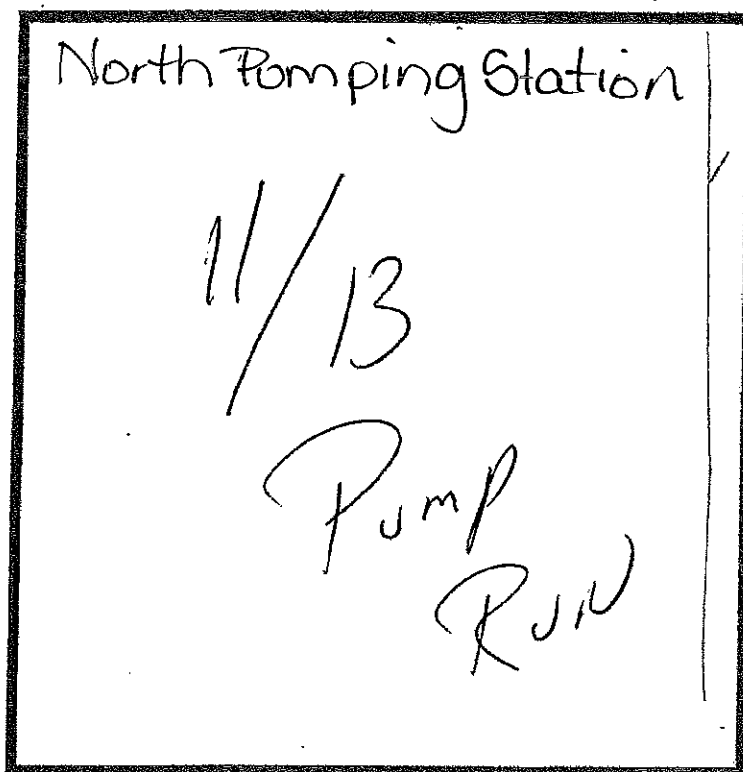
Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>11</u> Day <u>14</u> Year <u>2015</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
4:00	Total:	Total:	Total:						
5:00	Flow:	Flow:	Flow:						
5:00	Total:	Total:	Total:						
6:00	Flow:	Flow:	Flow:						
6:00	Total:	Total:	Total:						
7:00	Flow: <u>23006</u>	Flow: <u>FP200P</u>	Flow: <u>20833</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-1.2</u>	<u>.7</u>	<u>✓</u>
7:00	Total: <u>70761182</u>	Total: <u>FP200P</u>	Total: <u>91799593</u>						
8:00	Flow: <u>22232</u>	Flow: <u>FP200P</u>	Flow: <u>20471</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-1.2</u>	<u>.7</u>	<u>✓</u>
8:00	Total: <u>71835051</u>	Total: <u>FP200P</u>	Total: <u>92806732</u>						
9:00	Flow: <u>22217</u>	Flow: <u>FP200P</u>	Flow: <u>20446</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-1.2</u>	<u>.7</u>	<u>✓</u>
9:00	Total: <u>73021660</u>	Total: <u>FP200P</u>	Total: <u>93896997</u>						
10:00	Flow: <u>22433</u>	Flow: <u>FP200P</u>	Flow: <u>20580</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-1</u>	<u>.7</u>	<u>✓</u>
10:00	Total: <u>74364472</u>	Total: <u>FP200P</u>	Total: <u>95128183</u>						
11:00	Flow: <u>22301</u>	Flow: <u>FP200P</u>	Flow: <u>20366</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-1.0</u>	<u>.7</u>	<u>✓</u>
11:00	Total: <u>75681610</u>	Total: <u>FP200P</u>	Total: <u>96333828</u>						
11:55	Flow: <u>22447</u>	Flow: <u>FP200P</u>	Flow: <u>20235</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>1.0</u>	<u>.7</u>	<u>✓</u>
	Total: <u>76876017</u>	Total: <u>FP200P</u>	Total: <u>97419324</u>	<u>60Hz</u>	<u>60Hz</u>	<u>60Hz</u>			

PUMP OPERATOR

Date

Bryan Ingram
11/14/2015

VERIFIED BY PUMP

COORDINATOR

Date

Bryan Ingram
11/14

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET										Month	Day	Year
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat			
13:00	Flow:	Flow:	Flow:									
13:00	Total:	Total:	Total:									
14:00	Flow:	Flow:	Flow:									
14:00	Total:	Total:	Total:									
15:00	Flow:	Flow:	Flow:									
15:00	Total:	Total:	Total:									
16:00	Flow:	Flow:	Flow:									
16:00	Total:	Total:	Total:									
17:00	Flow:	Flow:	Flow:									
17:00	Total:	Total:	Total:									
18:00	Flow:	Flow:	Flow:									
18:00	Total:	Total:	Total:									
19:00	Flow:	Flow:	Flow:									
19:00	Total:	Total:	Total:									
20:00	Flow:	Flow:	Flow:									
20:00	Total:	Total:	Total:									
21:00	Flow:	Flow:	Flow:									
21:00	Total:	Total:	Total:									
22:00	Flow:	Flow:	Flow:									
22:00	Total:	Total:	Total:									
23:00	Flow:	Flow:	Flow:									
23:00	Total:	Total:	Total:									
24:00	Flow:	Flow:	Flow:									
24:00	Total:	Total:	Total:									

PUMP
OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

ERDC/ASST 11/14/15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Kyle Carr

Revision No. 08

Author:

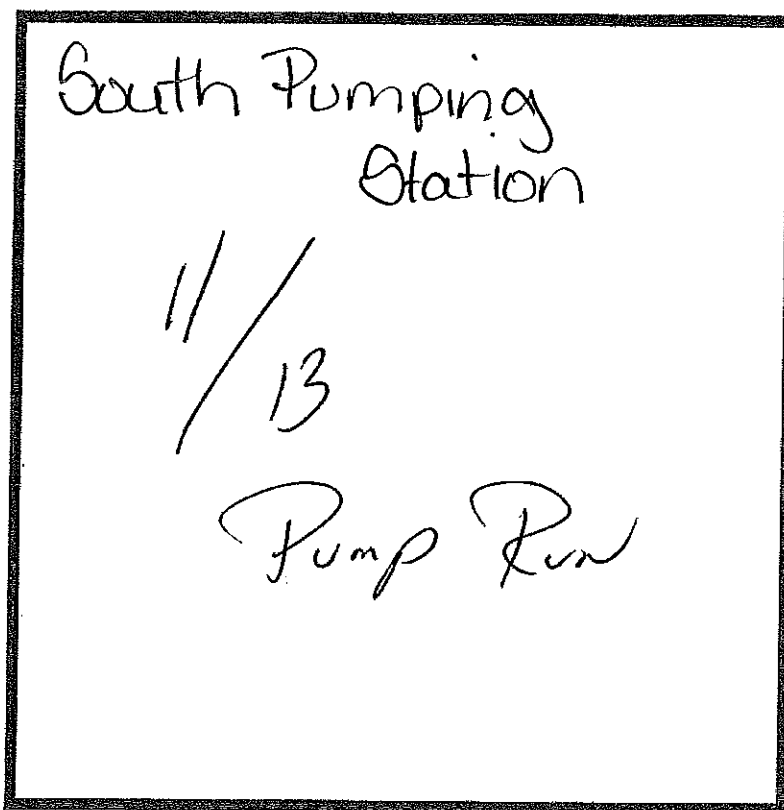
Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month <u>11</u>	Day <u>14</u>	Year <u>2015</u>		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat.
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
6:00	Flow:	Flow:				
6:00	Total:	Total:				
7:00	Flow: <u>31053</u>	Flow: <u>31057</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
7:00	Total: <u>56760553</u>	Total: <u>57840784</u>				
8:00	Flow: <u>34811</u>	Flow: <u>31142</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
8:00	Total: <u>58095980</u>	Total: <u>891072908</u>				
9:00	Flow: <u>34982</u>	Flow: <u>30140</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
9:00	Total: <u>60151753</u>	Total: <u>90755006</u>				
10:00	Flow: <u>35024</u>	Flow: <u>29671</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
10:00	Total: <u>62725104</u>	Total: <u>92635563</u>				
11:00	Flow: <u>34680</u>	Flow: <u>30295</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
11:00	Total: <u>64326134</u>	Total: <u>94467015</u>				
12:00	Flow: <u>34865</u>	Flow: <u>30126</u>	<u>598</u>	<u>598</u>	<u>.55</u>	✓
12:00	Total: <u>65957739</u>	Total: <u>95844237</u>			<u>.55</u>	✓

PUMP OPERATOR ERIC CASHVERIFIED BY PUMP
COORDINATOR Bull [Signature] 11/14

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET			Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat	
13:00	Flow:	Flow:					
13:00	Total:	Total:					
14:00	Flow:	Flow:					
14:00	Total:	Total:					
15:00	Flow:	Flow:					
15:00	Total:	Total:					
16:00	Flow:	Flow:					
16:00	Total:	Total:					
17:00	Flow:	Flow:					
17:00	Total:	Total:					
18:00	Flow:	Flow:					
18:00	Total:	Total:					
19:00	Flow:	Flow:					
19:00	Total:	Total:					
20:00	Flow:	Flow:					
20:00	Total:	Total:					
21:00	Flow:	Flow:					
21:00	Total:	Total:					
22:00	Flow:	Flow:					
22:00	Total:	Total:					
23:00	Flow:	Flow:					
23:00	Total:	Total:					
24:00	Flow:	Flow:					
24:00	Total:	Total:					

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Rev 8, 10/01/2015

ATTACHMENT 1

Date / Time

EVENT LOG BOOK

Page _ of _

Andren Cooper

11/14 Pump Run

Brian Ingraham

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Cathy Ward

Date:

10/1/15

Approved:

Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

11/14 Pump Run

L-31 North Total

22,610,471 gals

L-31 South Total

22,525,539 gals

North Pumping Station

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>11</u> Day <u>15</u> Year <u>2015</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 844 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
4:00	Total:	Total:	Total:						
5:00	Flow:	Flow:	Flow:						
5:00	Total:	Total:	Total:						
<u>6:00</u> <u>6:03</u>	Flow: <u>21583</u>	Flow: <u>ERROR</u>	Flow: <u>20423</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-.2</u>	<u>.9</u>	<u>✓</u>
6:00	Total: <u>76983656</u>	Total: <u>ERROR</u>	Total: <u>97522459</u>						
7:00	Flow: <u>21440</u>	Flow: <u>ERROR</u>	Flow: <u>20301</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-.2</u>	<u>.9</u>	<u>✓</u>
7:00	Total: <u>78148000</u>	Total: <u>ERROR</u>	Total: <u>98631605</u>						
8:00	Flow: <u>21987</u>	Flow: <u>ERROR</u>	Flow: <u>20421</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>-.2</u>	<u>.9</u>	<u>✓</u>
8:00	Total: <u>79448537</u>	Total: <u>ERROR</u>	Total: <u>99837187</u>						
9:00	Flow: <u>22606</u>	Flow: <u>ERROR</u>	Flow: <u>20534</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>+.1</u>	<u>.9</u>	<u>✓</u>
9:00	Total: <u>80762034</u>	Total: <u>ERROR</u>	Total: <u>1047784</u>						
10:00	Flow: <u>22368</u>	Flow: <u>ERROR</u>	Flow: <u>20651</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>+.2</u>	<u>.9</u>	<u>✓</u>
10:00	Total: <u>82092562</u>	Total: <u>ERROR</u>	Total: <u>2285683</u>						
11:00	Flow: <u>22404</u>	Flow: <u>ERROR</u>	Flow: <u>20675</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>+.3</u>	<u>.9</u>	<u>✓</u>
11:00	Total: <u>83432852</u>	Total: <u>ERROR</u>	Total: <u>3533677</u>						
<u>11:55</u> <u>12:00</u>	Flow: <u>22430</u>	Flow: <u>ERROR</u>	Flow: <u>20749</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>+.4</u>	<u>.9</u>	<u>✓</u>
<u>12:00</u>	Total: <u>84614747</u>	Total: <u>ERROR</u>	Total: <u>4633328</u>	<u>60HZ</u>	<u>60HZ</u>	<u>60HZ</u>			

PUMP OPERATOR

Date

VERIFIED BY PUMP

COORDINATOR

Date:

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____
Date: _____

ERSCASH

11/15/15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Calvin Ward

Date:

10/1/15

Approved:

Phil Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

11/14 Pump Run

L-31 South Total

22,525,539 gals

L-31 North Total

22,610,471 gals

South Pumping Station

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>11</u> Day <u>15</u> Year <u>2015</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:			.85	✓
5:00	Total:	Total:				
6:00 6:00	Flow: <u>34267</u>	Flow: <u>30744</u>	<u>598</u>	<u>598</u>	.85	✓
6:00 6:00	Total: <u>66140129</u>	Total: <u>96016259</u>				
7:00	Flow: <u>34959</u>	Flow: <u>31094</u>	<u>598</u>	<u>598</u>	.85	✓
7:00	Total: <u>67849707</u>	Total: <u>97849613</u>				
8:00	Flow: <u>34976</u>	Flow: <u>31123</u>	<u>598</u>	<u>598</u>	.85	✓
8:00	Total: <u>69955116</u>	Total: <u>99427320</u>				
9:00	Flow: <u>34965</u>	Flow: <u>3184147</u>	<u>598</u>	<u>598</u>	.85	✓
9:00	Total: <u>72079990</u>	Total: <u>30184</u>				
10:00	Flow: <u>35092</u>	Flow: <u>30913</u>	<u>598</u>	<u>598</u>	.85	✓
10:00	Total: <u>74183089</u>	Total: <u>3106150</u>				
11:00	Flow: <u>35346</u>	Flow: <u>31051</u>	<u>598</u>	<u>598</u>	.85	✓
11:00	Total: <u>76262251</u>	Total: <u>4946164</u>				
12:00	Flow: <u>35262</u>	Flow: <u>30714</u>	<u>598</u>	<u>598</u>	.85	✓
12:00	Total: <u>7924767</u>	Total: <u>634957</u>				

PUMP OPERATOR ELSCASA 11/15/15VERIFIED BY PUMP
COORDINATOR A. Cooper 11/15/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET			Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No.Pump	RPM So.Pump	South Canal Level	System Checks Sat	
13:00	Flow:	Flow:					
13:00	Total:	Total:					
14:00	Flow:	Flow:					
14:00	Total:	Total:					
15:00	Flow:	Flow:					
15:00	Total:	Total:					
16:00	Flow:	Flow:					
16:00	Total:	Total:					
17:00	Flow:	Flow:					
17:00	Total:	Total:					
18:00	Flow:	Flow:					
18:00	Total:	Total:					
19:00	Flow:	Flow:					
19:00	Total:	Total:					
20:00	Flow:	Flow:					
20:00	Total:	Total:					
21:00	Flow:	Flow:					
21:00	Total:	Total:					
22:00	Flow:	Flow:					
22:00	Total:	Total:					
23:00	Flow:	Flow:					
23:00	Total:	Total:					
24:00	Flow:	Flow:					
24:00	Total:	Total:					

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Pump Run 11/15

Rev 8, 9/23/15

ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 1 of _

11/16/0500 Inspected L-31 North & South For wildlife
and trash.

10603 Reached 504 acre Feet. started L-31 North pumps

10608 Started L-31 South Pumps.

10615 Contacted SFWM D & made all necessary contacts.

10700 North Station Pumped = 3,661,965

10700 South Station Pumped = 3,482,726

10800 North Station Pumped = 3,779,670

10800 South Station Pumped = 4,028,790

10900 North Station Pumped = 3,725,190

10900 South Station Pumped = 4,000,020

10907 Took South Station Down to 56Hz From Hc.

11000 North Station Pumped = 3,726,510

11000 South Station Pumped = 3,949,440

11100 North Station Pumped = 3,746,160

11100 South Station Pumped = 3,921,660

11155 North Station Pumped = 3,453,917

11140 South Station Pumped = 2,596,300

11200 Total gallons pumped by North Station = 22,093,412

11/16/1200 Total gallons pumped by South Station = 21,978,936

11/16

Brian Wenzel

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Carmel W. S.

Date:

10/1/15

Approved:

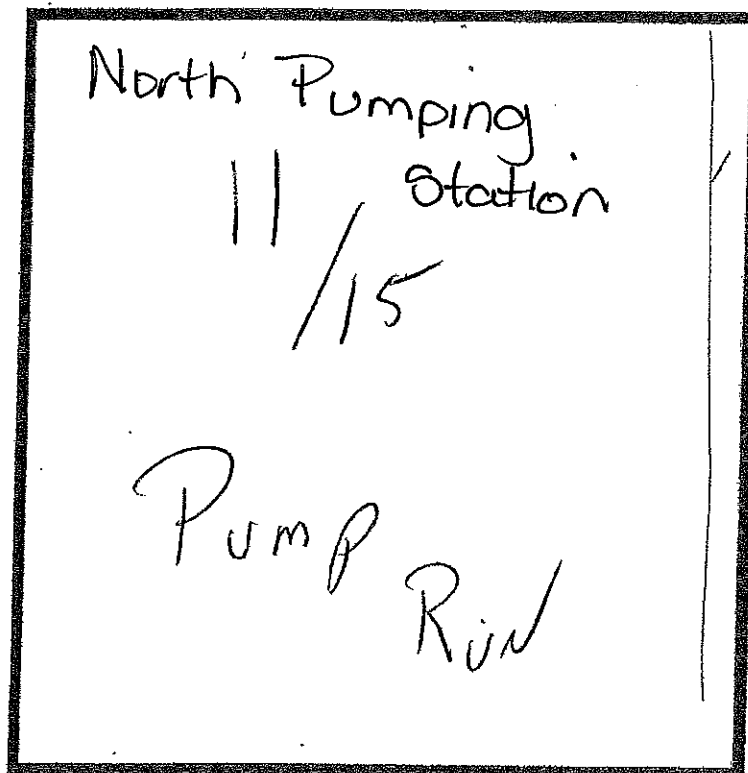
[Signature]

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET									
				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
4:00	Total:	Total:	Total:						
5:00	Flow:	Flow:	Flow:						
5:00	Total:	Total:	Total:						
6:00	Flow: 22276	Flow: ERROR	Flow: ERROR	576	576	576	- .1	.9	✓
6:00	Total: 84721780	Total: ERROR	Total: ERROR						
7:00	Flow: 21014	Flow: ERROR	Flow: ERROR	576	576	576	- .2	.9	✓
7:00	Total: 85913075	Total: ERROR	Total: ERROR						
8:00	Flow: 19775	Flow: ERROR	Flow: ERROR	576	576	576	- .4	.9	✓
8:00	Total: 87194882	Total: ERROR	Total: ERROR						
9:00	Flow: 19998	Flow: ERROR	Flow: ERROR	576	576	576	- .2	.9	✓
9:00	Total: 88399414	Total: ERROR	Total: ERROR						
10:00	Flow: 19819	Flow: ERROR	Flow: ERROR	576	576	576	.0	.9	✓
10:00	Total: 89519584	Total: ERROR	Total: ERROR						
11:00	Flow: 20653	Flow: ERROR	Flow: ERROR	576	576	576	+ .1	.9	✓
11:00	Total: 90866356	Total: ERROR	Total: ERROR						
11:55	Flow: 20544	Flow: ERROR	Flow: ERROR	576	576	576	+ .2	.9	✓
11:55	Total: 91920865	Total: ERROR	Total: ERROR						

PUMP OPERATOR

Date

VERIFIED BY PUMP
COORDINATOR

Date

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

ERIC CASH

11/16/15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Patricia Ward

Date:

11/11/15

Approved:

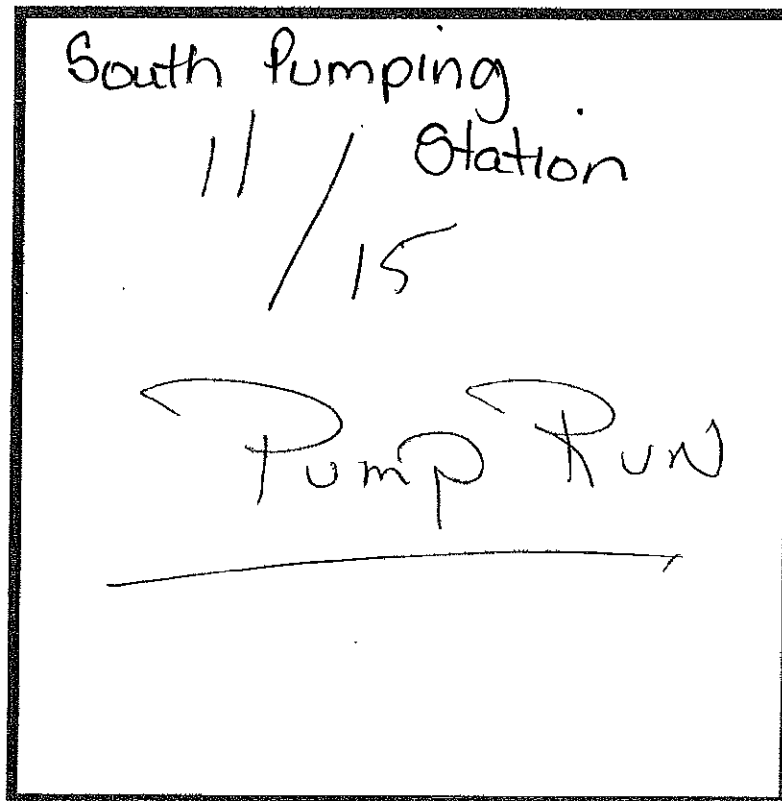
Patricia Ward

Date:

12/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month <u>11</u>	Day <u>16</u>	Year <u>2015</u>		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
6:00 6:08	Flow: 34931	Flow: 32033	598	598	.8	✓
6:00 6:08	Total: 78095135	Total: 6544550				
7:00	Flow: 35312	Flow: 31675	598	598	.8	✓
7:00	Total: 79406029	Total: 6045706				
8:00	Flow: 35369	Flow: 31937	598	598	.8	✓
8:00	Total: 810160079	Total: 810003551				
9:00	Flow: 35183	Flow: 30845	598	598	.8	✓
9:00	Total: 41027376	Total: 11834820				
10:00	Flow: 34515	Flow: 31105	598	598	.8	✓
10:00	Total: 46112553	Total: 13663861				
11:00	Flow: 34527	Flow: 30575	598	598	.8	✓
11:00	Total: 486174635	Total: 5532723				
12:00	Flow: 34497	Flow: 30214	598	598	.8	✓
12:00	Total: 89500066	Total: 16662579				

PUMP OPERATOR

Eric Vasek
11-16-15

Page 23 of 24

VERIFIED BY PUMP
COORDINATOR*David [Signature]*
11-16-15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET			Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat	
13:00	Flow:	Flow:					
13:00	Total:	Total:					
14:00	Flow:	Flow:					
14:00	Total:	Total:					
15:00	Flow:	Flow:					
15:00	Total:	Total:					
16:00	Flow:	Flow:					
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18:00	Flow:	Flow:					
18:00	Total:	Total:					
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20:00	Total:	Total:					
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23:00	Total:	Total:					
24:00	Flow:	Flow:					
24:00	Total:	Total:					

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____