

PALO VERDE NUCLEAR GENERATING STATION
UNIT 1
STEAM GENERATOR EDDY CURRENT EXAMINATION
3rd REFUELING OUTAGE
MARCH 1992

ARIZONA PUBLIC SERVICE
P.O. BOX 52034
PHOENIX, AZ 85072

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UNIT 1 STEAM GENERATOR EDDY CURRENT EXAMINATION

1.0 Summary

The third refueling outage eddy current examinations for Unit 1 were conducted during March and April 1992. The initial examination plan for both steam generators was to examine 30 percent of tubing full length, and 70 percent part length. Additional examinations were conducted for program expansions.

The examinations resulted in both steam generators being classified in category C-2. The total tubes plugged were: 23 in steam generator 11, and 18 in steam generator 12.

2.0 Examination Discussion

The examination plan was developed to meet the requirements of PVNGS Technical Specification 4.4.4.0. The original plan for steam generator 11 and 12 was to inspect approximately 30% of the tubing full length from the cold leg side, and 70% of the tubing part length from the hot leg side. The part length hot leg exam was developed to insure that all tubing be examined at locations previously found to contain axial cracking. Previous axial cracking was detected during the Unit 2 third refueling. A complete listing of the preliminary examination plan is located in Appendix B.

The progression and extent of examinations for each steam generator was as follows:

Steam Generator # 11

- Bobbin coil examinations were completed in accordance with the original inspection plan.
- Due to six defective tubes, a program expansion of 760 tubes was performed.
- MRPC examinations were performed on approximately 372 tubes. Appendix D list the MRPC examination locations and results.

Steam Generator # 12

- Visual examination of the primary side tube sheet identified the existence of a foreign material in the tube sheet on the primary side. (Material Nonconformance Report 92-RC-1008 was generated to track and report the foreign material removal)
- Bobbin coil examinations were completed in accordance with the original inspection plan.
- A program expansion was performed due to defective tubes and in an attempt to locate additional foreign material. The expansion consisted of bobbin coil examination of approximately 7600 tubes. (No additional foreign material was located by eddy current.)
- MRPC examinations were performed on approximately 193 tubes. Appendix D list the MRPC examination locations and results.
- During secondary side pressurization of steam generator 12, tube # R44-L91 was noted as dripping from the hot leg tube sheet. Subsequent MRPC examination revealed a single axial indication adjacent to the tube to tube sheet weld. This indication was not detected by bobbin examination or reexamination due to the defect location next to the tube weld.

3.0 Examination Results

A tabulation of the examination results are located in Table 1 of this report. In addition, Appendix A contains a reference drawing of steam generator support locations. The summary data sheets of Appendix C list all tubes in each steam generator with indications expressed as a percent wall thickness reduction, or as an analysis code. Appendix E contains summary data sheets for tubes classified as possible loose parts.

The results of specific examinations for each steam generator were as follows:

Steam Generator # 11

- The 30% full length and 70% part length bobbin examinations resulted in six defective tubes, 25 degraded tubes, and was classified in category C-2.
- The 760 tube expansion resulted in no defective tubes, four degraded tubes, and was classified in category C-1.
- The 372 MRPC examinations resulted in three tubes being characterized as having multiple axial indications located at the hot leg tube sheet. The remaining 369 tubes were characterized as NDD, PVN, PLP, or percent wall reduction.
- Analysis of bobbin and MRPC data revealed 40 tubes with possible loose parts.

Steam Generator # 12

- The 30% full length and 70% part length bobbin examinations resulted in five defective tubes, 20 degraded tubes, and was classified in category C-2.
- The program expansion (approx. 7600 tubes) resulted in nine defective tubes, 13 degraded tubes, and was classified in category C-2.
- No further program expansions were performed as essentially 100% of tubing was inspected.
- The 193 MRPC examinations resulted in five tubes being characterized as single axial indications. The remaining 188 tubes were characterized as NDD, PVN, PLP, or percent wall thickness reduction.
- Analysis of bobbin and MRPC examinations revealed 21 tubes with possible loose parts.

In regards to NRC Information Notice 90-49 "Stress Corrosion Cracking in PWR Steam Generator Tubing", eight tubes were identified as having axial indications indicative of cracking. With the exception of steam generator 12 tube number R44-L91 all axial indications were detected by bobbin examination. The MRPC examinations are summarized in appendix D.

The overall examinations resulted in plugging a total of 23 tubes in steam generator number 11, and 18 tubes in steam generator number 12. All defective tubes and tubes with axial indications were plugged pursuant to technical specification requirements. In addition, various degraded tubes were plugged as preventative measures. The maps supplied in Appendix F show the total tubes plugged to date. The NIS - 1 form in Appendix G list each of the tubes plugged as a result of this examination.

TABLE 1
INDICATION SUMMARY

INDICATION CATEGORY	STEAM GENERATOR 11	STEAM GENERATOR 12
Corner Eggcrate Wear		
<20%	3	0
≥20% <40%	3	3
≥40%	1	0
Eggcrate Wear		
<20%	22	45
≥20% <40%	5	6
≥40%	0	0
Flow Dist Plate Wear		
<20%	2	0
≥20% <40%	2	0
≥40%	1	0
Batwing Wear		
<20%	0	4
≥20% <40%	2	4
≥40%	1	0
Vertical Strap Wear		
<20%	21	30
≥20% <40%	13	15
≥40%	0	0
Possible Loose Parts		
w/wear	5	4
wo/wear	35	17
Axial Indications		
Tube End Hot	2	1
Tube Sheet Hot	1	4

4.0 Examination Techniques and Equipment

The eddy current examination was performed by Conam Nuclear Inc. using Zetec MIZ-18 digital data acquisition and analysis systems. The following frequencies were used for the tube examination(s):

550 KHZ
990 KHZ
100 KHZ
20 KHZ

NOTE: All frequencies were utilized in both differential and absolute modes.

All tubing was examined with Zetec manufactured bobbin coil style probes, either 0.610, 0.580, 0.540, or 0.590 inch diameter. A 3 coil motorized rotating pancake probe was also used to characterize the indications at various locations. Data acquisition was facilitated by using Zetec SM-10 and SM-20 "no entry" probe positioning fixtures in both the cold and hot leg S/G plenums respectively. Conam Nuclear Inc. provided the primary data analysis and Combustion Engineering performed a complete secondary analysis. A third analysis was performed utilizing computer data screening (CDS) for indications.

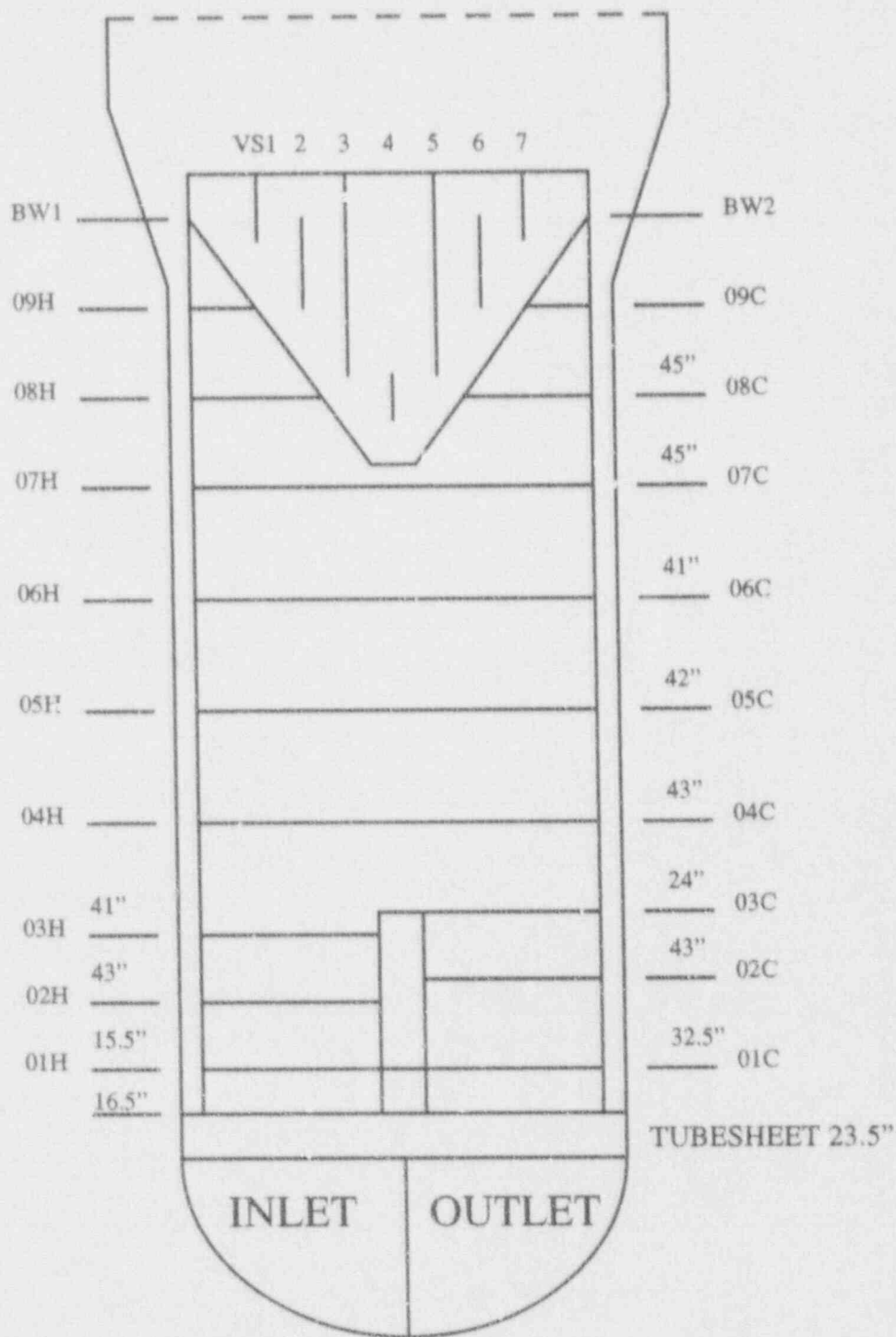
During data analysis, a detailed evaluation was performed for possible loose parts and sludge profiling.

Each level IIA individual from Conam Nuclear Inc. and Combustion Engineering who performed data analysis was required to complete and pass an on-site data analysis performance examination with at least a 80% proficiency within the last year (12 months).

APPENDIX A

STEAM GENERATOR TUBE SUPPORT DIAGRAM

CE SYSTEM 80 STEAM GENERATOR TUBE SUPPORT DIAGRAM



NOTES:

SUPPORTS 01C&01H
ARE FLOW DISTRI-
BUTION BAFFLES

SUPPORTS 02 THRU 09
ARE EGGCRATE TYPE

SUPPORT SPACINGS ARE
IDENTIFIED IN INCHES
BETWEEN THE SUPPORT
IDENTIFICATION

CORNER EGGCRATE IS
COLD LEG SIDE, 10 ROWS
UP, 20 LINES IN, 02C THRU
04C SUPPORTS

APPENDIX B

EXAMINATION PLAN

Steam Generator 1

Cold Leg Exam

Description of Groups	No. of Plugged Tubes in that Area	No. of Tubes to Test	Total Tubes	Probe
2 tubes around the outer periphery	6	745	751	610UL
1 tube around the stays	0	241	241	610UL
20 lines in and 10 rows up in the lower corners, from the left corner	1	51	52	610UL
20 lines in and 10 rows up in the lower corners, from the right corner	0	56	56	610UL
3 tubes around the stay cylinders	5	267	272	610UL
1 tube around the plugged tubes	0	36	36	610UL
Low rows (Rows 1, 2 & 3) Extent is TEC-07H	26	182	208	610UL
Tubes with 1" of SLG or greater in C/L only	0	67	67	610UL
Prior Indications 0-100% UDI, DRI, DSI, DNI, DTI	7	92	99	610UL
All prior PLPs and 1 tube around each	2	5	7	610UL
Suspect Wear Areas from Unit #2 maps	2	1558	1560	610UL
TOTAL TUBES	49	3300	3349	

Hot Leg Exam

Description of Groups	No. of Plugged Tubes in that Area	No. of Tubes to Test	Total Tubes	Probe
All remaining tubes not examined in the cold leg. Extent is TEH-02H.	2	7661	7663	610UL
Low Rows (Rows 1, 2 & 3). Extent is TEH-07H	26	182	208	610UL
TOTAL TUBES	28	7843	7871	

Steam Generator

Cold Leg Exam

Description of Groups	No. of Plugged Tubes in that Area	No. of Tubes to Test	Total Tubes	Probe
2 tubes around the outer periphery	10	726	736	610UL
1 tube around the stays	0	233	233	610UL
20 lines in and 10 rows up in the lower corners, from the left corner	0	56	56	610UL
20 lines in and 10 rows up in the lower corners, from the right corner	1	55	56	610UL
3 tubes around the stay cylinders	1	248	249	610UL
1 tube around the plugged tubes	21	121	142	610UL
Low rows (Rows 1,2 & 3) Extent is TEC-07H	13	195	208	610UL
Tubes with 1" of SLG or greater in C/L only	0	49	49	610UL
Prior Indications 0-100% UDI, DRI, DSI, DNI, DTI	2	115	117	610UL
All prior PLPs and 1 tube around each	0	11	11	610UL
Suspect Wear Areas from Un.: #2 maps	0	1491	1491	610UL
TOTAL TUBES	48	3500	3348	

Hot Leg Exam

Description of Groups	No. of Plugged Tubes in that Area	No. of Tubes to Test	Total Tubes	Probe
All remaining tubes not examined in the cold leg. Extent is TEH-02H.	1	7663	7664	610UL
Low Rows (Rows 1,2 & 3). Extent is TEH-07H	13	195	208	610UL
TOTAL TUBES	14	7858	7872	

APPENDIX C

SUMMARY DATA SHEETS BOBBIN COIL

LEGEND

ROW: Indicates row number of a given tube
LIN: Indicates the column number of a given tube.
LEG: Indicates the tube leg from which examination was performed;
C is from cold leg, H is from hot leg

EXAM EXTENT PROGRAM: Indicates the tube length initially required to be examined, i.e., F/L-full length, 07H-seventh support on hot leg side, etc.

EXAM EXTENT ACTUAL: Indicates the tube length actually examined.
REM: Remarks column used for comments relating to examination.
RPI = Retest Positive Identification
RIC = Retest Incomplete

REEL: Indicates reel number that the data was recorded on.
PROBE: Indicates probe diameter and style used for examination.
LOCATION: Gives indication location relative to known landmarks such as supports, vertical straps, and batwings. Typical location codes are as follows:

#1 Vertical Strap.....	Vs1
#1 Batwing.....	BW1
#1 Support Plate in Hot Leg.....	01H
#7 Support Plate in Cold Leg.....	07C
Top Tube Sheet Cold Leg.....	TSC
Tube End Hot Leg.....	TEH
Tube End Cold Leg.....	TEC

VOLTS: Indicates the peak-to-peak voltage of a given indication response.
DEG: The measured phase angle of a given indication response.
%: The percent through the tube wall of a given indication based on the measured phase angle/amplitude and the calibration curve established for that particular channel, or analysis comment codes, e.g., PLP = Possible Loose Parts, etc.

CH: Indicates the channel used to measure and evaluate a given indication.
MRPC: Motorized Rotating Pancake Coil

ANALYSIS CODES:

Positive ID.....	PID
Multiple Axial Indication.....	MAI
Single Axial Indication.....	SAI
Possible Loose Part.....	PLP

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: 0% TO 100%, PID, MAI, SAI

PAGE: 1 OF 4
DATE: 07/28/92
TIME: 12:39:13

ROW	LIN	HEAT#	LEG	EXAM EXTENT			R/EL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL	REM				VOLTS	MIL	DEG	%	CH	
4	3		C	03C-03C	03C-03C	RPI	00109	610RP	03C-	0.92	16.80		0	53	4
			C	TEC-TEH	TEC-TEH	RPI	00072	610UL	03C-	1.01	3.60		0	44	18
			C	TEC-TEH	TEC-TEH		00077	610UL	03C-	1.04	5.00		0	PID	18
1	6		C	03C-03C	03C-03C		00109	610RP	03C-	0.97	6.20		0	34	4
70	13		C	02C-02C	01C-02C		00111	610RP	01C+	0.77	4.20		54	28	4
			C	TEC-TEH	TEC-TEH	RPI	00066	610UL	01C+	0.57	1.80		86	65	17
			C	TEC-TEH	TEC-TEH		00077	610UL	01C+	0.57	1.80		85	PID	17
69	14		C	TEC-TEH	TEC-TEH		00077	610UL	01C+	1.11	2.30		260	PID	8
			C	01C-01C	01C-01C		00111	610RP	01C+	1.04	7.30		155	29	4
			C	TEC-TEH	TEC-TEH		00077	610UL	01C+	0.91	1.20		149	25	1
1	16		C	04C-04C	04C-04C		00111	610RP	04C+	1.00	9.20		0	22	4
			C	TEC-07H	TEC-07H		00073	590UL	04C+	0.81	1.40		0	24	18
2	17		C	TEC-07H	TEC-07H		00073	590UL	03C-	0.24	0.80		0	<20	18
1	18		C	04C-04C	04C-04C		00111	610RP	04C+	0.92	5.10		127	<20	6
			C	TEC-07H	TEC-07H		00073	590UL	04C+	0.54	1.20		0	22	18
81	18		C	TEC-TEH	TEC-TEH		00066	610UL	BW1+	1.84	0.60		0	<20	18
84	19		C	TEC-TEH	TEC-TEH		00066	610UL	VS5+	0.57	1.20		0	21	18
108	27		C	TEC-TEH	TEC-TEH		00098	610UL	03H+	27.88	2.60		5	<20	1
92	31		C	TEC-TEH	TEC-TEH		00076	610UL	BW1+	2.25	0.70		0	<20	18
88	33		C	TEC-TEH	TEC-TEH		00064	610UL	VS5+	0.54	0.90		0	<20	18
118	33		C	TEC-TEH	TEC-TEH		00098	610UL	09H+	1.64	2.50		6	<20	17
82	35		C	TEC-TEH	TEC-TEH		00063	610UL	VS3-	0.84	1.50		0	25	18
			C	TEC-TEH	TEC-TEH		00063	610UL	VS5-	0.84	1.20		0	23	18
111	36		C	TEC-TEH	TEC-TEH		00095	610UL	VS2-	0.82	0.60		0	<20	18
71	38		C	TEC-TEH	TEC-TEH		00061	610UL	BW1+	1.73	0.60		0	<20	18
			C	TEC-TEH	TEC-TEH		00061	610UL	VS3-	0.94	0.60		0	<20	18
109	38		C	TEC-TEH	TEC-TEH		00095	610UL	VS2-	0.90	1.00		0	<20	18
113	40		C	TEC-TEH	TEC-TEH		00095	610UL	VS5+	0.93	0.60		0	<20	18
115	40		C	TEC-TEH	TEC-TEH		00095	610UL	BW1+	3.61	0.60		0	<20	18
64	43		C	TEC-TEH	TEC-TEH		00056	610UL	BW1+	2.05	0.60		0	<20	18
65	43		C	TEC-TEH	TEC-TEH		00056	610UL	BW1+	1.53	0.60		0	<20	18
88	45		C	TEC-TEH	TEC-TEH		00056	610UL	BW1+	2.05	0.90		0	<20	18
79	52		C	TEC-TEH	TEC-TEH		00051	610UL	VS3-	0.95	0.80		0	<20	18
87	52		C	TEC-TEH	TEC-TEH		00051	610UL	VS2-	0.95	1.50		0	22	18
75	54		C	TEC-TEH	TEC-TEH		00051	610UL	01C+	29.52	2.40		10	25	1
82	55		C	TEC-TEH	TEC-TEH		00049	610UL	VS3-	0.90	0.60		0	<20	18
82	57		C	TEC-TEH	TEC-TEH		00049	610UL	VS5-	0.66	0.60		0	<20	18
80	59		C	TEC-TEH	TEC-TEH		00048	610UL	VS5+	0.72	0.80		0	<20	18
81	60		C	TEC-TEH	TEC-TEH		00048	610UL	VS3+	1.01	2.20		0	29	18
117	62		C	TEC-TEH	TEC-TEH		00108	610JL	BW1+	2.33	1.10		0	<20	18
116	67		C	TEC-TEH	TEC-TEH		00047	610UL	VS3+	0.81	0.80		0	<20	18
154	71		H	TSH-TSH	TEH-TSH	RPI	00086	610RP	TEH-	1.34	10.00		241	MAI	4
			C	TEC-TEH	TEC-TEH	RPI	00045	610UL	TSH-	1.64	2.70		215	54	1
			C	TEC-TEH	TEC-TEH		00090	610UL	TSH-	0.90	6.30		63	PID	17
			C	TEC-TEH	TEC-TEH	RPI	00045	610UL	TSH-	0.81	5.70		95	68	1

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: A'L
CRITERIA: 0% TO 100%,PID,MAI,SAI

PAGE: 2 OF 4
DATE: 07/28/92
TIME: 12:39:13

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REEL	PROBE	LOCATION	CURRENT			
				PROGRAM	ACTUAL				REM	VOLTS	MIL	DEG
33	72	EXP 1	C	01C-02C	01C-02C	00114	610RP	01C+ 0.59	2.20	128	<20	4
117	74		C	TEC-TEH	TEC-TEH	00045	610UL	VS3- 0.85	0.90	0	<20	18
38	77	EXP 1	H	TEH-02H	TEH-02H	00035	610UL	02H+ 22.86	3.90	13	33	1
			H	TEH-TEC	TEH-TEC	03103	610UC	02H+ 23.35	3.70	8	20	1
155	82		C	TEC-TEH	TEC-TEH	00042	610UL	BW1+ 1.92	2.70	0	32	18
40	83	EXP 1	H	TEH-TEC	TEH-TEC	00103	610UC	04H+ 14.60	2.50	12	30	1
42	83	EXP 1	H	TEH-TEC	TEH-TEC	00103	610UC	02C+ 18.82	2.10	5	<20	17
110	83		C	TEC-TEH	TEC-TEH	00042	610UL	BW1+ 2.32	0.70	0	<20	18
116	83		C	TEC-TEH	TEC-TEH	00042	610UL	09H- 1.10	1.10	0	<20	18
36	87		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 2.00	1.10	0	<20	18
116	87		C	TEC-TEH	TEC-TEH	00090	610UL	08H+ 0.79	0.50	0	<20	18
			C	TEC-TEH	TEC-TEH	00090	610UL	09H- 1.23	1.40	0	23	18
156	87		C	TEC-TEH	TEC-TEH	00090	610UL	BW1+ 1.83	1.10	0	<20	18
117	88		C	TFC-TEH	TEC-TEH	00087	610UL	09H- 0.74	1.10	0	<20	18
135	88		H	TEH-02H	TEH-03H	00043	610UL	02H+ 38.23	2.00	5	<20	1
38	91		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 2.03	1.00	0	<20	18
159	94		C	TEC-TEH	TEC-TEH	00085	610UL	VS7+ 1.20	1.80	0	22	18
42	95		C	TEC-TEH	TEC-TEH	00034	610UL	VS4- 1.09	0.80	0	<20	18
46	96	EXP 1	H	TEH-TEC	TEH-TEC	00105	610UC	VS4+ 1.07	0.40	0	<20	18
39	96		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 1.89	2.40	0	29	18
			H	TEH-07H	TEH-07H	00127	590UL	BW1- 1.57	1.30	0	29	18
159	96		C	TEC-TEH	TEC-TEH	00085	610UL	BW1+ 1.88	1.30	0	<20	18
38	97		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 2.01	0.70	0	<20	18
			C	TEC-TEH	TEC-TEH	00034	610UL	BW1+ 2.04	1.00	0	<20	18
			H	TEH-01C	TEH-01C	00127	590UL	BW2+ 1.82	1.40	0	31	18
			C	TEC-TEH	TEC-TEH	00034	610UL	BW2- 1.92	2.50	0	30	18
40	97		C	TEC-TEH	TEC-TEH	00034	610UL	BW2- 1.57	0.80	0	<20	18
156	97		C	TEC-TEH	TEC-TEH	00085	610UL	BW2+ 1.95	0.90	0	<20	18
75	98		H	TEH-02H	TEH-02H	00033	610UL	TSH+ 8.64	2.90	6	<20	1
159	98		C	TEC-TEH	TEC-TEH	00085	610UL	BW2+ 1.61	1.20	0	<20	18
37	100		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 2.29	1.10	0	<20	18
118	101		C	TEC-TEH	TEC-TEH	00083	610UL	07H+ 0.89	0.70	0	<20	18
120	101		C	TEC-TEH	TEC-TEH	00083	610UL	07H+ 0.62	0.50	0	<20	18
			C	TEC-TEH	TEC-TEH	00083	610UL	09H+ 0.87	0.50	0	<20	18
117	102		C	TEC-TEH	TEC-TEH	00083	610UL	09H+ 1.52	1.00	0	20	18
159	102		C	TEC-TEH	TEC-TEH	RPI 00083	610UL	BW2+ 1.06	2.30	103	46	17
			C	TEC-TEH	TEC-TEH	00108	610UL	BW2- 1.33	2.40	100	PID	17
114	103		C	TEC-TEH	TEC-TEH	00083	610UL	08H- 1.02	0.40	0	<20	18
116	103		C	TEC-TEH	TEC-TEH	00083	610UL	09H+ 0.99	0.60	0	<20	18
118	103		C	TEC-TEH	TEC-TEH	00083	610UL	08H- 0.92	0.50	0	<20	18
158	103		C	TEC-TEH	TEC-TEH	00083	610UL	VS1- 0.95	0.70	0	<20	18
35	104		C	TEC-TEH	TEC-TEH	00034	610UL	BW1- 2.13	1.30	0	<20	18
			C	TEC-TEH	TEC-TEH	00034	610UL	BW1+ 2.19	0.80	0	<20	18
113	104		C	TEC-TEH	TEC-TEH	00083	610UL	VS2- 0.98	0.60	0	<20	18
119	104		C	TEC-TEH	TEC-TEH	00083	610UL	09H- 0.70	0.50	0	<20	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: 0% TO 100%, PID, MAI, SAI

PAGE: 3 OF 4
DATE: 07/28/92
TIME: 12:39:13

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
157	104		C	TEC-TEH	TEC-TEH		00083	61OUL	BW2+ 1.36	1.40		0	21	18
36	107		H	TSH-TSH	TEH-TSH	RPI	00086	61ORP	TEH+ 9.41 to 13.74	1.00		58	MAI	17
			C	TEC-TEH	TEC-TEH	RPI	00036	61OUL	TEH+ 14.25	0.70		97	54	17
			C	TEC-TEH	TEC-TEH		00074	61OUL	TEH+ 14.25	0.70		93	PID	17
			C	TEC-TEH	TEC-TEH		00036	61OUL	TSH- 0.72	0.40		125	29	17
			C	TEC-TFH	TEC-TEH	RPI	00036	61OUL	TSH- 0.11	0.60		105	47	17
117	108		C	TEC-TEH	TEC-TEH		00082	61OUL	09H+ 0.27	1.40		0	22	18
156	109		C	TEC-TEH	TEC-TEH		00082	61OUL	VS1- 0.91	0.60		0	<20	18
			C	TEC-TEH	TEC-TEH		00082	61OUL	VS7- 1.12	1.10		0	<20	18
157	110		C	TEC-TEH	TEC-TEH		00079	61OUL	VS7+ 0.69	1.60		0	25	18
			C	TEC-TEH	TEC-TEH		00079	61OUL	VS7- 0.50	1.60		0	24	18
			C	TEC-TEH	TEC-TEH		00079	61OUL	BW2+ 1.67	0.60		0	<20	18
			C	TEC-TEH	TEC-TEH		00079	61OUL	BW2- 1.23	1.80		0	27	18
80	111		C	TEC-TEH	TEC-TEH		00027	61OUL	VS3- 1.12	0.50		0	<20	18
111	112		C	TEC-TEH	TEC-TEH		00079	61OUL	VS3+ 0.74	1.50		0	21	18
117	116		C	TEC-TEH	TEC-TEH		00042	61OUL	09H+ 0.37	0.70		0	<20	18
			C	TEC-TEH	TEC-TEH		00042	61OUL	09C- 0.34	0.70		0	<20	18
151	120		C	TEC-TEH	TEC-TEH		00041	61OUL	VS7+ 0.69	1.00		0	<20	18
28	121	EXP 1	H	TEH-02H	TEH-02H		00018	61OUL	01H+ 1.40	2.40		3	<20	1
			H	TEH-02H	TEH-02H		00018	61OUL	01H+ 5.76	4.20		7	<20	1
98	123		C	TEC-TEH	TEC-TEH		00026	61OUL	08H- 0.86	0.70		0	<20	18
97	124		C	TEC-TEH	TEC-TEH		00026	61OUL	08H- 0.96	1.20		0	<20	18
96	125		C	TEC-TEH	TEC-TEH		00025	61OUL	08H- 0.93	2.00		0	25	18
94	127		C	TEC-TEH	TEC-TEH		00025	61OUL	08H- 0.98	1.30		0	<20	18
60	131		H	04H-04H	04H-04H		00084	61ORP	04H+ 10.86	1.20		0	<20	4
96	133		C	TEC-TEH	TEC-TEH		00022	61OUL	08H+ 0.64	0.80		0	<20	18
83	134		C	TEC-TEH	TEC-TEH		00022	61OUL	VS3+ 0.69	1.50		0	21	18
87	134		C	TEC-TEH	TEC-TEH		00022	61OUL	08H- 0.51	0.90		0	<20	18
145	134		H	TSH-TSH	TEH-TSH	RPI	00084	61ORP	TEH+ 21.94	3.60		52	MAI	4
			C	TEC-TEH	TEC-TEH		00079	61OUL	TSH- 1.00	1.60		89	PID	17
			C	TEC-TEH	TEC-TEH	RPI	00040	61OUL	TSH- 0.96	1.20		91	63	17
98	139		C	TEC-TEH	TEC-TEH		00019	61OUL	BW1+ 2.03	0.50		0	<20	18
59	140		H	TEH-02H	TEH-02H		00021	61OUL	TSH+ 9.96	0.80		5	<20	1
78	141		C	TEC-TEH	TEC-TEH		00019	61OUL	VS3+ 15.97	1.90		6	<20	1
			C	TEC-TEH	TEC-TEH		00019	61OUL	VS3- 22.93	1.80		8	20	1
82	141		C	TEC-TEH	TEC-TEH		00017	61OUL	VS3- 0.82	1.50		0	23	18
1	142		C	TEC-07H	TEC-07H		00059	59OUL	02C- 0.84	0.80		0	<20	18
82	145		C	TEC-TEH	TEC-TEH		00016	61OUL	VS5- 0.91	0.70		0	<20	18
60	147		C	TEC-TEH	TEC-TEH		00016	61OUL	02C+ 7.60	3.50		8	20	1
1	150		C	TEC-07H	TEC-07H		00059	59OUL	02C+ 0.81	0.60		0	<20	18
67	152		H	TEH-02H	TEH-02H		00012	61OUL	TSH+ 1.81	2.70		2	<20	1
66	155		C	TEC-TEH	TEC-TEH		00005	61OUL	08H+ 0.06	1.50		0	25	18
76	159		C	TEC-TEH	TEC-TEH		00005	61OUL	VS3+ 0.50	1.20		0	<20	18
1	166		C	TEC-07H	TEC-07H		00059	59OUL	02C+ 0.96	0.90		0	<20	18
76	169		C	TEC-TEH	TEC-TEH		00005	61OUL	VS3- 0.57	1.40		0	24	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: 0% TO 100%,PID,MAI,SAI

PAGE: 4 OF 4
DATE: 07/28/92
TIME: 12:39:13

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
78	169		C	TEC-TEH	TEC-TEH		00005	610UL	VS3-	0.87	2.20		0	31	18
1	174		C	TEC-07H	TEC-07H		00059	590UL	03C+	0.82	0.80		0	<20	18
46	175	EXP 1	H	TEH-TEC	TEH-TEC		00094	610UL	05H-	0.17	4.40		13	33	1
50	175	EXP 1	H	TEH-TEC	TEH-TEC		00094	610UL	07H+	16.43	0.60		147	20	20
1	176		C	TEC-07H	TEC-07H		00059	590UL	05C+	0.93	0.70		0	<20	18
33	186		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+	0.41	2.40		0	<20	6
35	186		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+	1.05	2.10		0	<20	4
			C	TEC-TEH	TEC-TEH		00011	610UL	TSC+	0.96	1.20		154	<20	1
39	186		C	TEC-TEH	TEC-TEH		00011	610UL	05C-	0.96	0.90		0	<20	18

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 108

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: 0% TO 100%,PID,MAI,SAI

PAGE: 1 OF 4
DATE: 07/27/92
TIME: 14:17:26

ROW	LIN	EXP #	LEG	EXAM EXTENT		REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL				VOLTS	MIL	DEG	%	CH
2	1		C	TEC-07H	TEC-07H	00131	590UL	02C- 0.45	1.90		0	27	18
			C	02C-02C	02C-02C	00194	610RP	02C- 0.83	4.10		0	39	18
11	12	EXP 1	H	TEH-02H	TEH-02H	00060	610UL	TSH- 0.52	45.60		3	<20	17
72	17	EXP 1	C	TEC-08H	TEC-06H	00106	610UC	VS3+ 1.10	1.50		0	<20	18
91	18		C	TEC-TEH	TEC-TEH	00089	610UL	04C+ 0.00	0.70		147	<20	17
93	20		C	TEC-TEH	TEC-TEH	00089	610UL	04H+ 37.27	0.60		141	25	1
99	22		C	TEC-TEH	TEC-TEH	00088	610UL	03C+ 0.86	1.40		0	20	18
98	23		C	TEC-TEH	TEC-TEH	00088	610UL	03C+ 1.00	0.70		0	<20	18
72	28		C	TEC-TEH	TEC-TEH	00067	610UL	VS3+ 0.49	1.80		0	21	18
74	29		C	TEC-TEH	TEC-TEH	00069	610UL	VS3- 0.84	1.20		0	<20	18
76	29		C	TEC-TEH	TEC-TEH	00069	610UL	VS3- 0.86	1.80		0	21	18
29	38	EXP 1	H	TEH-07C	TEH-07C	00079	610UC	VS4+ 0.78	1.00		0	<20	18
81	38		C	TEC-TEH	TEC-TEH	00073	610UL	VS5- 0.87	1.80		0	<20	18
79	40		C	TEC-TEH	TEC-TEH	00073	610UL	VS3- 1.02	1.80		0	<20	18
81	40		C	TEC-TEH	TEC-TEH	00073	610UL	VS3- 1.03	1.70		0	<20	18
70	41		C	TEC-TEH	TEC-TEH	00076	610UL	03H+ 21.31	4.50		7	<20	1
111	50		C	TEC-TEH	TEC-TEH	00053	610UL	VS3- 0.88	1.10		0	<20	18
40	57	EXP 1	H	TEH-07C	TEH-06C	00068	610UC	VS4+ 0.95	0.50		0	<20	18
66	57	EXP 1	H	TEH-08C	TEH-07C	00068	610UC	08H- 0.81	0.90		0	<20	18
112	63		C	TEC-TEH	TEC-TEH	00053	610UL	BW1- 1.24	1.40		0	<20	18
113	70		C	TEC-TEH	TEC-TEH	00054	610UL	02C+ 14.05	1.80		6	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	02C+ 13.78	2.90		11	28	1
			C	TEC-TEH	TEC-TEH	00054	610UL	02C+ 10.29	3.20		8	21	1
115	70		C	TEC-TEH	TEC-TEH	00054	610UL	01C+ 12.55	3.30		6	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	01C+ 8.15	2.00		3	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	TSC+ 11.62	1.80		4	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	TSC+ 10.96	3.90		1	<20	1
85	74	EXP 1	C	TEC-08H	TEC-07H	00162	610UC	VS5- 0.81	1.30		0	23	18
115	74		C	TEC-TEH	TEC-TEH	00054	610UL	03H+ 25.25	2.10		6	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	03H+ 27.87	1.70		5	<20	1
			C	TEC-TEH	TEC-TEH	00054	610UL	BW1+ 1.47	1.40		0	22	18
			C	TEC-TEH	TEC-TEH	00054	610UL	BW1+ 1.91	1.50		0	<20	18
116	75		C	TEC-TEH	TEC-TEH	00056	610UL	09H- 1.47	0.90		0	<20	18
115	76		C	TEC-TEH	TEC-TEH	00056	610UL	BW1- 1.98	1.40		0	<20	18
			C	TEC-TEH	TEC-TEH	00056	610UL	BW1+ 1.56	1.60		0	<20	18
80	77		C	TEC-TEH	TEC-TEH	00032	610UL	VS5- 1.00	1.20		0	<20	18
112	77		C	TEC-TEH	TEC-TEH	00056	610UL	VS2- 0.87	1.70		0	20	18
114	79		C	TEC-TEH	TEC-TEH	00056	610UL	BW1- 0.92	1.20		0	<20	18
29	80		H	TEH-TSH	TEH-TSH	RPI 00208	610RP	TSH- 0.88	3.10		107	SAI	5
32	83		C	TEC-TEH	TEC-TEH	00037	610UL	BW2- 1.79	0.80		0	<20	18
34	85		C	TEC-TEH	TEC-TEH	00037	610UL	BW1- 1.51	1.50		0	<20	18
150	85	EXP 1	C	TEC-09H	TEC-09H	00176	610UL	VS3- 0.24	1.00		0	<20	18
159	86		C	TEC-TEH	TEC-TEH	00063	610UL	04C- 0.24	1.00		0	<20	18
158	87		C	TEC-TEH	TEC-TEH	00063	610UL	05C- 0.63	1.30		0	<20	18
119	88		C	TEC-TEH	TEC-TEH	00058	610UL	09H- 0.03	1.20		0	<20	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: 0% TO 100%,PID,MAI,SAI

PAGE: 2 OF 4
DATE: 07/27/92
TIME: 14:17:26

ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	RLEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
137	88	EXP 1	C	02C-03C	02C-03C	RPI	00189	61ORP	02C+ 35.75	1.60		72	43	4
153	88		C	TEC-TEH	TEC-TEH		00061	61OUL	VS1- 0.86	1.40		0	<20	18
156	89		C	TEC-TEH	TEC-TEH		00061	61OUL	BW2- 1.91	1.20		0	<20	18
44	91		H	TEH-TSH	TEH-TSH	RPI	00214	61ORP	TEH- 0.00	2.90		46	SAI	3
111	92		C	TEC-TEH	TEC-TEH		00058	61OUL	VS3+ 0.27	1.00		0	<20	18
117	92		C	TEC-TEH	TEC-TEH		00058	61OUL	09H- 0.60	1.20		0	<20	18
86	93	EXP 1	C	TEC-08H	TEC-07H		00154	61OUC	VS3+ 1.11	1.10		0	<20	18
39	94		C	TEC-TEH	TEC-TEH		00035	61OUL	BW2+ 1.79	0.60		0	<20	18
133	96	EXP 1	H	TEH-09C	TEH-09C		00163	61OUL	08H+ 0.86	0.80		0	<20	18
157	100		C	TEC-TEH	TEC-TEH		00061	61OUL	VS7- 0.97	1.10		0	<20	18
115	102		C	TEC-TEH	TEC-TEH		00059	61OUL	VS6+ 0.84	1.00		0	<20	18
159	102		C	TEC-TEH	TEC-TEH		00061	61OUL	BW2- 1.73	1.70		0	20	18
158	103		C	TEC-TEH	TEC-TEH		00061	61OUL	BW2- 2.07	2.30		0	26	18
33	106		C	TEC-TEH	TEC-TEH		00097	61OUL	BW1- 1.78	1.60		0	21	18
117	106		C	TEC-TEH	TEC-TEH		00059	61OUL	09H+ 1.23	1.80		0	29	18
158	107		C	TEC-TEH	TEC-TEH		00063	61OUL	VS3- 0.97	1.10		0	<20	18
			C	TEC-TEH	TEC-TEH		00063	61OUL	VS7+ 0.45	0.80		0	<20	18
71	108	EXP 1	H	TEH-08C	TEH-09C		00175	61OUL	VS5+ 0.79	0.50		0	<20	18
124	109	EXP 1	H	TEH-09C	TEH-VS6		00175	61OUL	08H+ 0.88	0.40		0	<20	18
148	109	EXP 1	H	TEH-02H	TEH-02H		00031	61OUL	TSH- 0.47	1.80		97	58	17
			H	TEH-09C	TEH-09C	PID	00151	61OUL	TSH- 0.45	1.90		96	58	17
			H	TSH-TSH	TSH-TSH	RPI	00202	61ORP	TSH- 0.32	0.90		121	SAI	2
116	115		C	TEC-TEH	TEC-TEH		00050	61OUL	09H- 1.02	0.90		0	<20	18
93	116	EXP 1	H	TEH-08C	TEH-08C		00145	61OUC	TSH- 0.83	0.40		142	3	1
117	116		C	TEC-TEH	TEC-TEH		00050	61OUL	09H- 1.22	1.30		0	21	18
106	117	EXP 1	H	TEH-08C	TEH-07C		00145	61OUC	08H+ 0.92	1.20		0	<20	18
121	118	EXP 1	H	TEH-09C	TEH-08C		00142	61OUC	02H+ 7.09	3.80		17	PID	1
			H	TEH-02H	TEH-02H		00028	61OUL	02H+ 7.70	4.60		16	39	1
			H	02H-03H	02H-03H	RPI	00206	61ORP	02H+ 7.71	5.10		4	57	1
76	119		C	TEC-TEH	TEC-TEH		00030	61OUL	VS5- 0.94	0.70		0	<20	18
154	119		C	TEC-TEH	TEC-TEH		00048	61OUL	06C- 0.23	0.50		0	<20	18
			C	TEC-TEH	TEC-TEH		00048	61OUL	03C- 0.99	0.50		0	<20	18
103	120	EXP 1	H	TEH-08C	TEH-08C		00125	61OUL	08H+ 0.92	0.80		0	<20	18
107	120	EXP 1	H	TEH-08C	TEH-08C		00125	61OUL	08H+ 0.82	0.40		0	<20	18
151	120		C	TEC-TEH	TEC-TEH		00048	61OUL	04C- 0.18	1.00		0	<20	18
			C	TEC-TEH	TEC-TEH		00048	61OUL	04C- 1.14	0.60		0	<20	18
80	121		C	TEC-TEH	TEC-TEH		00030	61OUL	VS5+ 0.95	0.80		0	<20	18
102	121	EXP 1	H	TEH-08C	TEH-08C		00125	61OUL	08H+ 0.76	0.70		0	<20	18
152	121		C	TEC-TEH	TEC-TEH		00048	61OUL	VS5- 0.97	0.50		0	<20	18
			C	TEC-TEH	TEC-TEH		00048	61OUL	BW2+ 1.85	0.50		0	<20	18
112	125	EXP 1	H	TEH-08C	TEH-08C		00125	61OUL	08H+ 0.93	0.60		0	<20	18
100	125		C	TEC-TEH	TEC-TEH		00027	61OUL	BW1+ 1.85	1.40		0	24	18
114	125	EXP 1	H	TEH-08C	TEH-08C		00123	61OUL	BW1+ 2.08	1.10		0	<20	18
93	126		C	TEC-TEH	TEC-TEH		00027	61OUL	08H+ 0.77	0.70		0	<20	18
97	126		C	TEC-TEH	TEC-TEH		00027	61OUL	08H+ 0.00	0.90		0	<20	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: 0% TO 100% PID, MAI, SAI

PAGE: 3 OF 4
DATE: 07/27/92
TIME: 14:17:26

ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
99	126		C	TEC-TEH	TEC-TEH		00027	61OUL	08H+ 0.00	0.60		0	<20	18
101	126		C	TEC-TEH	TEC-TEH		00027	61OUL	08H+ 0.36	0.60		0	<20	18
			C	TEC-TEH	TEC-TEH		00027	61OUL	03C+ 10.41	1.60		5	<20	1
103	126	EXP 1	C	VS6-TEH	VS6-TEH		00027	61OUL	08H+ 0.00	24.40		172	<20	17
98	127		C	TLC-TEH	TEC-TEH		00027	61OUL	08H+ 0.00	0.60		0	<20	18
79	128		C	TEC-TEH	TEC-TEH		00025	61OUL	VS3- 0.90	0.60		0	<20	18
			C	TEC-TEH	TEC-TEH		00025	61OUL	VS5- 0.97	0.80		0	<20	18
81	130		C	TEC-TEH	TEC-TEH		00025	61OUL	VS3- 1.03	0.90		0	<20	18
89	130		C	TEC-TEH	TEC-TEH		00025	61OUL	08H+ 0.52	0.90		0	<20	18
93	130		C	TEC-TEH	TEC-TEH		00025	61OUL	08H+ 0.48	0.60		0	<20	18
75	132		C	TEC-TEH	TEC-TEH		00024	61OUL	08H+ 0.70	0.80		0	<20	18
97	132		C	TEC-TEH	TEC-TEH		00024	61OUL	08C+ 0.86	0.70		0	<20	18
80	133		C	TEC-TLH	TEC-TEH		00022	61OUL	VS3- 0.83	1.10		0	<20	18
			C	TEC-TEH	TEC-TEH		00022	61OUL	VS3- 0.15	1.10		0	<20	18
84	133		C	TEC-TEH	TEC-TEH		00022	61OUL	VS3- 0.90	1.30		0	20	18
86	133		C	TEC-TEH	TEC-TEH		00022	61OUL	08H+ 0.61	1.10		0	<20	18
144	135		C	03C-03C	03C-03C		00190	61ORP	03C+ 1.03	2.10		0	22	18
			C	TEC-TEH	TEC-TEH		00047	61OUL	03C+ 0.86	1.50		0	23	18
79	136		C	TEC-TEH	TEC-TEH		00021	61OUL	VS3- 1.00	1.50		0	24	18
143	136		C	TEC-TEH	TEC-TEH		00047	61OUL	03C+ 0.92	0.90		0	<20	18
78	137		C	TEC-TEH	TEC-TEH		00021	61OUL	VS5- 0.50	0.80		0	<20	18
141	138		C	TEC-TEH	TEC-TEH		00047	61OUL	07H+ 0.08	0.90		0	<20	18
133	140	EXP 1	H	TEH-09C	TEH-09C		00116	61OUC	BW1+ 1.14	1.10		0	20	18
72	141		C	TEC-TEH	TEC-TEH		00020	61OUL	BW1+ 1.79	0.50		0	<20	18
76	141		C	TEC-TEH	TEC-TEH		00020	61OUL	VS3- 0.81	2.00		0	29	18
134	141	EXP 1	H	TEH-09C	TEH-09C		00116	61OUC	BW1+ 1.45	1.40		0	23	18
87	142		C	TEC-TEH	TEC-TEH		00020	61OUL	VS3- 0.87	0.60		0	<20	18
91	142		C	TEC-TEH	TEC-TEH		00020	61OUL	TSC+ 11.12	4.40		14	35	1
121	142	EXP 1	H	TEH-02H	TEH-02H		00013	61OUL	TSH+ 11.29	2.00		8	20	1
104	143	EXP 1	H	TEH-08C	TEH-07C		00140	61OUC	BW1 2.00	0.90		0	<20	18
77	144		C	TEC-TEH	TEC-TEH		00018	61OUL	VS3+ 0.81	1.30		0	24	18
103	144	EXP 1	H	TEH-08C	TEH-07C		00140	61OUC	08H+ 0.92	0.90		0	<20	18
119	144	EXP 1	H	TEH-09C	TEH-08C		00140	61OUC	09H+ 1.11	0.80		0	<20	18
78	145		C	TEC-TEH	TEC-TEH		00018	61OUL	02H+ 28.83	3.90		11	28	1
106	149	EXP 1	H	TEH-08C	TEH-08C		00113	61OUC	BW1- 1.68	0.60		0	<20	18
82	151		C	TEC-TEH	TEC-TEH		00014	61OUL	VS3- 0.80	0.60		0	<20	18
100	151	EXP 1	H	TEH-08C	TEH-08C		00112	61OUC	VS3- 0.72	1.10		0	24	18
11	152	EXP 1	H	TEH-TSH	TEH-TSH	RPI	00206	61ORP	TSH- 0.63	2.70		118	SAI	5
50	155	EXP 1	H	TEH-07C	TEH-07C		00113	61OUC	VS4+ 0.69	1.10		0	23	18
84	155		C	TEC-TEH	TEC-TEH		00014	61OUL	VS3- 0.98	1.60		0	28	18
88	155	EXP 1	H	TEH-08C	TEH-08C		00103	61OUC	BW1+ 1.80	1.10		0	23	18
66	159	EXP 1	H	TEH-08C	TEH-07C		00100	61OUC	08H+ 1.41	0.90		0	<20	18
73	160		C	TEC-TEH	TEC-TEH		00012	61OUL	VS5+ 0.76	1.40		0	24	18
72	161		C	TEC-TEH	TLC-TEH		00012	61OUL	07C+ 21.87	1.80		5	<20	1
88	161	EXP 1	H	TEH-08C	TEH-08C		00099	61OUC	BW1+ 1.42	0.70		0	<20	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: 0% TO 100%,PID,MAI,SAI

PAGE: 4 OF 4
DATE: 07/27/92
TIME: 14:17:26

ROW	LIN	EXP #	LEG	EXAM EXTENT				REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL	REM					VOLTS	MIL	DEG	%	CH
99	162	EXP 1	H	01H-02H	01H-02H		00208	610RP	01H+	2.73	0.60		0	<20	18
111	162		H	TEH-TSH	TEH-TSH	RPI	00200	610RP	TSH-	0.92	3.30		228	SAI	18
			C	TEC-TEH	TEC-TEH	RPI	00042	610UL	TSH-	0.85	0.80		93	55	17
			C	TEC-TEH	TEC-TEH		00179	610UL	TSH-	0.81	0.90		88	PID	17
70	163	EXP 1	H	TEH-08C	TEH-08C		00096	610UC	VS5+	1.14	0.80		0	20	18
88	163	EXP 1	H	TEH-08C	TEH-08C		00096	610UC	08H+	0.90	0.80		0	20	18
92	163	EXP 1	H	TEH-08C	TEH-07C		00096	610UC	08H+	0.73	0.90		0	20	18
87	164	EXP 1	H	TEH-08C	TEH-08C		00095	610UC	BW1+	1.43	0.60		0	<20	18
88	165	EXP 1	H	TEH-08C	TEH-07C		00095	610UC	BW1+	1.07	1.30		0	25	18
76	157	EXP 1	H	TEH-08C	TEH-07C		00093	610UC	VS3+	1.00	1.30		0	25	18
66	169	EXP 1	H	TEH-08C	TEH-07C		00090	610UC	08H+	0.60	0.60		0	<20	18
29	172	EXP 1	H	TEH-07C	TEH-07C		00086	610UC	02H+	8.31	2.30		5	<20	1
80	173		H	TEH-06C	TEH-06C		00086	610UC	VS5+	0.85	0.00		0	<20	18
76	177		C	TEC-TEH	TEC-TEH		00010	610UL	05C+	0.30	0.70		0	<20	18
43	182		C	TEC-TEH	TEC-TEH		00008	610UL	VS4+	0.70	1.70		0	25	18
3	184		C	TEC-07H	TEC-07H		00002	590UL	03C+	0.46	1.50		0	26	18
40	185		C	TSC-TSC	TSC-TSC	RPI	00192	610RP	TSC+	0.30	12.00		0	69	18
			C	TEC-TEH	TEC-TEH		00006	610UL	TSC+	0.26	4.80		97	32	20
46	185		C	02C-03C	02C-03C		00192	610RP	02C+	35.94	2.10		0	23	18
			C	TEC-TEH	TEC-TEH		00006	610UL	02C+	35.81	1.20		0	21	18
39	186		C	TEC-TEH	TEC-TEH		00005	610UL	TSC+	0.33	3.50		124	31	20
			C	TSC-TSC	TSC-TSC	RPI	00192	610RP	TSC+	0.22	6.00		0	48	18
4	187		C	TEC-TEH	TEC-TEH		00179	610UL	02C-	0.91	1.90		0	21	18
12	189		C	TEC-TEH	TEC-TEH		00179	610UL	05C+	0.00	1.60		C	<20	18

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 132

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

MAP OPTIONS:

Plot data from current examination only

APPENDIX D

SUMMARY DATA SHEETS MRPC

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, INLET ONLY

PAGE: 1 OF 4
DATE: 05/01/92
TIME: 09:26:37

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				CH
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	
54	9		H	03H-03H	03H-03H		00088	610RP					NDD	
			H	02H-02H	02H-02H		00088	610RP					NDD	
			H	01H-01H	01H-01H		00088	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00088	610RP					NDD	
37	10	EXP 1	H	03H-03H	03H-03H		00088	610RP					NDD	
			H	02H-02H	02H-02H		00088	610RP					NDD	
			H	01H-01H	01H-01H		00088	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00088	610RP					NDD	
49	10	EXP 1	H	03H-03H	03H-03H		00088	610RP					NDD	
			H	02H-02H	02H-02H		00088	610RP					NDD	
			H	01H-01H	01H-01H		00083	610RP					NDD	
			H	TSH-TSH	TEH-TSH		00088	610RP					NDD	
54	11	EXP 1	H	03H-03H	03H-03H		00088	610RP					NDD	
			H	02H-02H	02H-02H		00088	610RP					NDD	
			H	01H-01H	01H-01H		00088	610RP					NDD	
			H	TSH-TSH	TEH-TSH		00088	610RP					NDD	
84	19		H	01H-01H	01H-01H		00088	610RP					NDD	
86	19		H	01H-01H	01H-01H		00088	610RP					NDD	
85	20		H	03H-03H	03H-03H		00086	610RP					NDD	
			H	02H-02H	02H-02H		00086	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00086	610RP					NDD	
			H	01H-01H	01H-01H		00086	610RP	03P+ 1.85	3.3		84	PLP	10
87	20		H	01H-01H	01H-01H		00088	610RP					NDD	
42	21		H	TSH-TSH	TSH-TSH		00088	610RP					NDD	
48	21		H	TSH-TSH	TSH-TSH		00088	610RP					NDD	
62	21		H	TEH-TSH	TEH-TSH		00088	610RP					NDD	
84	21		H	01H-01H	01H-01H		00086	610RP					NDD	
86	21		H	01H-01H	01H-01H		00086	610RP					NDD	
10	27		H	02H-02H	02H-02H		00115	610RP					NDD	
154	71		H	03H-03H	03H-03H		00086	610RP					NDD	
			H	01H-01H	01H-01H		00086	610RP					NDD	
			H	02H-02H	02H-02H		00086	610RP					NDD	
			H	TSH-TSH	TEH-TSH	RPI	00086	610RP	TEH- 1.34	10.0		241	MAI	4
58	73		H	03H-03H	03H-03H		00086	610RP					NDD	
			H	01H-01H	01H-01H		00086	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00086	610RP					NDD	
			H	02H-02H	02H-02H		00086	610RP					NDD	
70	73		H	03H-03H	03H-03H		00086	610RP					NDD	
			H	02H-02H	02H-02H		00086	610RP					NDD	
			H	01H-01H	01H-01H		00086	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00086	610RP					NDD	
59	74		H	TEH-TSH	TEH-TSH		00086	610RP					NDD	
85	74		H	TSH-TSH	TSH-TSH		00086	610RP					NDD	
42	75		H	TSH-TSH	TSH-TSH		00088	610RP					NDD	
85	76		H	TSH-TSH	TSH-TSH		00086	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, INLET ONLY

PAGE: 2 OF 4
DATE: 05/01/92
TIME: 09:26:37

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRLNT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
28	77		H	TSH-TSH	TSH-TSH		00088	61ORP							NDD
38	77	EXP 1	H	03H-03H	03H-03H		00088	61ORP							NDD
			H	02H-02H	02H-02H		00088	61ORP							NDD
			H	01H-01H	01H-01H		00088	61ORP							NDD
			H	TSH-TSH	TSH-TSH		00088	61ORP							NDD
62	77		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
27	78		H	TEH-TSH	TEH-TSH		00088	61ORP							NDD
63	78		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
50	79		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
64	79		H	03H-03H	03H-03H		00086	61ORP							NDD
			H	02H-02H	02H-02H		00086	61ORP							NDD
			H	01H-01H	01H-01H		00086	61ORP							NDD
			H	TSH-TSH	TSH-TSH		00086	61ORP							NDD
49	80		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
58	81		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
55	82		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
57	82		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
			H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
51	84		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
60	85		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
51	86		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
61	86		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
42	87	EXP 1	H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
55	90		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
46	95	EXP 1	H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
48	95	EXP 1	H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
75	98		H	TSH-TSH	TSH-TSH		00115	61ORP							NDD
77	100		H	03H-03H	03H-03H		00086	61ORP							NDD
			H	02H-02H	02H-02H		00086	61ORP							NDD
			H	TSH-TSH	TSH-TSH		00086	61ORP							NDD
			H	01H-01H	01H-01H		00086	61ORP							NDD
48	103	EXP 1	H	TSH-TSH	TSH-TSH		00115	61ORP	TSH- 0.00	2.6		151	PLP	7	
36	107		H	03H-03H	03H-03H		00086	61ORP							NDD
			H	02H-02H	02H-02H		00086	61ORP							NDD
			H	01H-01H	01H-01H		00086	61ORP							NDD
			H	TSH-TSH	TEH-TSH	RPI	00086	61ORP	TEH+ 9.41to+ 13.74	1.0		58	MAI	17	
2	119		H	TEH-TSH	TEH-TSH		00086	61ORP							NDD
4	119		H	TSH-TSH	TEH-TSH		00086	61ORP							NDD
6	119		H	TSH-TSH	TSH-TSH		00086	61ORP							NDD
28	121	EXP 1	H	03H-03H	03H-03H		00086	61ORP							NDD
			H	02H-02H	02H-02H		00086	61ORP							NDD
			H	01H-01H	01H-01H		00086	61ORP							NDD
			H	TSH-TSH	TSH-TSH		00086	61ORP							NDD
78	129		H	TSH-TSH	TSH-TSH		00086	61ORP							NDD
			H	01H-01H	01H-01H		00086	61ORP	01H+ 1.65	17.9		358	BLI	4	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, INLET ONLY

PAGE: 3 OF 4
DATE: 05/01/92
TIME: 09:26:37

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
78	129		H	02H-02H	02H-02H		00086	610RP	02H+ 8.77	26.0		359	BLI	4
			H	03H-03H	03H-03H		00086	610RP	03H+ 3.56	14.4		359	BLI	4
60	131		H	03H-03H	03H-03H		00084	610RP					NDD	
			H	02H-02H	02H-02H		00084	610RP					NDD	
			H	01H-01H	01H-01H		00084	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00084	610RP					NDD	
			H	04H-04H	04H-04H		00084	610RP	04H+ 10.86	1.2		0	<20	4
145	134		H	03H-03H	03H-03H		00084	610RP					NDD	
			H	02H-02H	02H-02H		00084	610RP					NDD	
			H	01H-01H	01H-01H		00084	610RP					NDD	
			H	TSH-TSH	TEH-TSH	RPI	00084	610RP	TEH+ 21.94	3.6		52	MAI	4
71	148		H	01H-01H	01H-01H		00084	610RP					NDD	
73	148		H	01H-01H	01H-01H		00084	610RP					NDD	
70	149		H	01H-01H	01H-01H		00084	610RP					NDD	
72	149		H	03H-03H	03H-03H		00084	610RP					NDD	
			H	02H-02H	02H-02H		00084	610RP					NDD	
			H	01H-01H	01H-01H		00084	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00084	610RP					NDD	
74	149		H	01H-01H	01H-01H		00084	610RP					NDD	
71	150		H	01H-01H	01H-01H		00084	610RP					NDD	
73	150		H	01H-01H	01H-01H		00084	610RP					NDD	
106	153		H	TEH-TSH	TEH-TSH		00084	610RP					NDD	
106	155		H	TEH-TSH	TEH-TSH		00084	610RP					NDD	
81	156		H	TEH-TSH	TEH-TSH		00084	610RP					NDD	
58	159	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
60	159	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
37	160		H	02H-02H	01H-02H		00088	610RP					NDD	
39	160		H	02H-02H	01H-02H		00088	610RP					NDD	
41	160		H	02H-02H	01H-02H		00088	610RP					NDD	
43	160		H	02H-02H	01H-02H		00088	610RP					NDD	
45	160		H	02H-02H	01H-02H		00088	610RP					NDD	
55	160	EXP 1	H	02H-02H	01H-02H		00088	610RP					NDD	
57	160	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
59	160	EXP 1	H	03H-03H	03H-03H		00084	610RP					NDD	
			H	01H-01H	01H-01H		00084	610RP					NDD	
			H	TSH-TSH	TSH-TSH		00084	610RP					NDD	
			H	02H-02H	02H-02H		00084	610RP					NDD	
61	160	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
58	161	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
60	161	EXP 1	H	02H-02H	02H-02H		00084	610RP					NDD	
56	181		H	TEH-TSH	TEH-TSH		00084	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, INLET ONLY

PAGE: 4 OF 4
DATE: 05/01/92
TIME: 09:26:37

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 75

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

PAGE: 1 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	VOLTS	CURRENT			
				PROGRAM	ACTUAL						MIL	DEG	%	CH
4	3		C	02C-02C	02C-02C		00109	61ORP					NDD	
			C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
			C	03C-03C	03C-03C	RPI	00109	61ORP	03C- 0.92	16.8		0	53	4
32	3		C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
31	4		C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
33	4		C	02C-02C	02C-02C		00109	61OPP					NDD	
			C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.71	10.3		32	PLP	10
35	4		C	02C-02C	02C-02C		00109	61ORP					NDD	
			C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.53	11.5		211	PLP	10
37	4		C	02C-03C	02C-03C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.30	5.6		215	PLP	10
39	4		C	02C-03C	02C-03C		00109	61ORP					NDD	
			C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
32	5		C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
34	5		C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.31	9.0		27	PLP	10
36	5		C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.25	3.6		216	PLP	10
40	5		C	02C-03C	02C-03C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP	TSC+ 0.24	6.6		18	PLP	10
44	5		C	02C-03C	02C-03C		00109	61ORP					NDD	
46	5		C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
			C	02C-03C	02C-03C		00109	61OPP	02C+ 35.97	18.7		213	PLP	10
1	6		C	02C-02C	02C-02C		00109	61ORP					NDD	
			C	01C-01C	01C-01C		00109	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00109	61ORP					NDD	
			C	03C-03C	03C-03C		00109	61ORP	03C- 0.97	6.2		0	34	4
45	6		C	02C-03C	02C-03C		00110	61ORP					NDD	
47	6		C	02C-03C	02C-03C		00110	61ORP					NDD	
49	6		C	02C-03C	02C-03C		00110	61ORP					NDD	
51	6		C	02C-03C	02C-03C		00110	61ORP					NDD	
			C	01C-01C	01C-01C		00110	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00110	61ORP					NDD	
8	7		C	02C-02C	02C-02C		00110	61ORP					NDD	
			C	01C-01C	01C-01C		00110	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00110	61ORP	TSC+ 0.56	12.6		29	PLP	10
50	7		C	02C-03C	02C-03C		00110	61ORP					NDD	
52	7		C	02C-03C	02C-03C		00110	61ORP					NDD	
66	11		C	01C-01C	01C-01C		00110	61ORP					NDD	
68	11		C	01C-01C	01C-01C		00110	61ORP					NDD	
70	11		C	01C-01C	01C-01C		00110	61ORP					NDD	
65	12		C	01C-01C	01C-01C		00110	61ORP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

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DATE: 05/01/92
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REFL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
67	12		C	01C-01C	01C-01C		00110	61ORP						NDD	
			C	02C-02C	02C-02C		00110	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00110	61ORP						NDD	
69	12		C	01C-01C	01C-01C		00110	61ORP						NDD	
71	12		C	01C-01C	01C-01C		00110	61ORP						NDD	
66	13		C	01C-01C	01C-01C		00110	61ORP						NDD	
68	13		C	02C-02C	02C-02C		00110	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00110	61ORP						NDD	
			C	01C-01C	01C-01C		00110	61ORP	01C+ 1.03	11.3		37	PLP	10	
70	13		C	03C-03C	03C-03C		00111	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00111	61ORP						NDD	
			C	02C-02C	01C-02C		00111	61ORP	01C+ 0.81	2.4		190	PLP	10	
			C	02C-02C	01C-02C		00111	61ORP	01C+ 0.77	4.2		54	28	4	
72	13		C	01C-01C	01C-01C		00111	61ORP						NDD	
69	14		C	TSC-TSC	TSC-TSC		00111	61ORP						NDD	
			C	02C-02C	02C-02C		00111	61ORP						NDD	
			C	01C-01C	01C-01C		00111	61ORP	01C+ 1.04	7.3		155	29	4	
			C	01C-01C	01C-01C		00111	61ORP	01C+ 1.04	6.1		195	PLP	10	
71	14		C	01C-01C	01C-01C		00111	61ORP						NDD	
66	15		C	01C-01C	01C-01C		00111	61ORP						NDD	
68	15		C	01C-01C	01C-01C		00111	61ORP						NDD	
70	15		C	01-01C	01C-01C		00111	61ORP						NDD	
1	16		C	02C-02C	02C-02C		00111	61ORP						NDD	
			C	01C-01C	01C-01C		00111	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00111	61ORP						NDD	
			C	04C-04C	04C-04C		00111	61ORP	04C+ 1.00	9.2		0	22	4	
	18		C	02C-02C	02C-02C		00114	61ORP						NDD	
			C	03C-03C	03C-03C		00111	61ORP						NDD	
			C	01C-01C	01C-01C		00111	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00111	61ORP						NDD	
			C	04C-04C	04C-04C		00111	61ORP	04C+ 0.92	5.1		127	<20	6	
60	31	EXP 1	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
62	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
64	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
66	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
68	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
70	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
72	31	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNITS 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

PAGE: 3 OF 14
DATE: 05/01/92
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				CH
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	
74	31	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
76	31	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
78	31	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
80	31	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
61	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
63	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
65	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
67	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
69	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
71	32	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
73	32	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
75	32	EXP 2	C	02C-02C	02C-02C		00125	610RP					NDD	
			C	03C-03C	03C-03C		00125	610RP					NDD	
77	32	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
79	32	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
60	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
62	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
64	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
66	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
68	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
70	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	
72	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	03C-03C	02C-02C		00125	610RP					NDD	
			C	03C-03C	03C-03C		00129	610RP					NDD	
74	33	EXP 2	C	03C-03C	03C-03C		00125	610RP					NDD	
			C	02C-02C	02C-02C		00125	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

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DATE: 05/01/92
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROPT	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
76	33	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
78	33	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
80	33	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
61	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
63	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
65	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
67	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
69	34		C	01C-02C	01C-02C		00111	610RP	01C+ 9.33		2.4		325	PLP	7
71	34		C	01C-02C	01C-02C		00111	610RP	01C+ 9.14		1.3		330	PLP	7
73	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
75	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
77	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
79	34	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
60	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
62	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
64	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
66	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
70	35		C	TSC-TSC	TSC-TSC		00111	610RP						NDD	
			C	02C-02C	02C-02C		00111	610RP	02C- 1.47		1.0		60	PVN	7
			C	02C-02C	01C-02C		00111	610RP	01C+ 9.32		5.9		168	PLP	7
72	35		C	TSC-01C	TSC-01C		00111	610RP						NDD	
			C	01C-02C	01C-02C		00111	610RP						NDD	
74	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
76	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00125	610RP						NDD	
78	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						NDD	
			C	02C-02C	02C-02C		00129	610RP						NDD	
80	35	EXP 2	C	03C-03C	03C-03C		00125	610RP						BDA	
			C	03C-03C	02C-02C		00125	610RP						NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

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DATE: 05/01/92
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
60	35	EXP 2	C	03C-03C	03C-03C		00129	61ORP						NDD
61	36	EXP 2	C	03C-03C	03C-03C		00125	61ORP						NDD
			C	02C-02C	02C-02C		00125	61ORP						NDD
63	36	EXP 2	C	03C-03C	03C-03C		00125	61ORP						NDD
			C	02C-02C	02C-02C		00125	61ORP						NDD
65	36	EXP 2	C	03C-03C	03C-03C		00125	61ORP						NDD
			C	02C-02C	02C-02C		00125	61ORP						NDD
67	36	EXP 2	C	03C-03C	03C-03C		00125	61ORP						NDD
			C	02C-02C	02C-02C		00125	61ORP						NDD
69	36		C	01C-02C	01C-02C		00111	61ORP						NDD
71	36		C	01C-02C	01C-02C		00111	61ORP						NDD
73	36	EXP 2	C	03C-03C	03C-03C		00125	61ORP						NDD
			C	02C-02C	02C-02C		00125	61ORP						NDD
75	36	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
77	36	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
79	36	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
60	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
62	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
64	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
66	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
68	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
70	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
72	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
74	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
76	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
78	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
80	37	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
61	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD
63	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP						NDD
			C	02C-02C	02C-02C		00126	61ORP						NDD

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

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DATE: 05/01/92
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
65	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
67	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
69	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
71	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
73	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
75	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
77	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
79	38	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
60	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
62	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
66	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
68	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
70	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
72	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
74	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
76	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
78	39	EXP 2	C	03C-03C	03C-03C		00126	61ORP					NDD	
			C	02C-02C	02C-02C		00126	61ORP					NDD	
80	39	EXP 2	C	03C-03C	03C-03C		00128	61ORP					NDD	
			C	02C-02C	02C-02C		00128	61ORP					NDD	
61	40	EXP 2	C	03C-03C	03C-03C		00128	61ORP					NDD	
			C	02C-02C	02C-02C		00128	61ORP					NDD	
63	40	EXP 2	C	03C-03C	03C-03C		00128	61ORP					NDD	
			C	02C-02C	02C-02C		00128	61ORP					NDD	
65	40	EXP 2	C	03C-03C	03C-03C		00128	61ORP					NDD	
			C	02C-02C	02C-02C		00128	61ORP					NDD	
67	40	EXP 2	C	03C-03C	03C-03C		00128	61ORP					NDD	
			C	02C-02C	02C-02C		00128	61ORP	02C- 1.20	1.5	44	PVN	4	
69	40	EXP 2	C	02C-02C	02C-02C		00128	61ORP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

PAGE: 7 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
69	40	EXP 2	C	03C-03C	03C-03C		00128	610RP	03C+ 0.00	2.7		38	PVN	4
71	40	EYP 2	C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
73	40	EXP 2	C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
75	40	XP 2	C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
77	40	EXP 2	C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
79	40	EXP 2	C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP	02C+ 0.00	7.2		224	PVN	4
1	70		C	02C-03C	02C-03C		00112	610RP					NDD	
3	70		C	02C-03C	02C-03C		00112	610RP					NDD	
11	70		C	02C-03C	02C-03C		00116	610RP					NDD	
2	71		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
			C	02C-03C	02C-03C		00112	610RP	02C+ 28.52to+ 40.90	1.0		103	PLP	10
			C	01C-01C	01C-01C		00112	610RP	01C+ 0.93	1.0		251	PLP	10
33	72	EXP 1	C	01C-02C	01C-02C		00114	610RP	01C+ 0.59	2.2		128	<20	4
			C	01C-02C	01C-02C		00114	610RP	01C+ 0.59	9.4		146	PLP	7
27	112		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
24	113		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
26	113		C	02C-02C	02C-02C		00112	610RP					NDD	
			C	01C-01C	01C-01C		00112	610RP					NDD	
			C	01C-01C	TSC-01C		00114	610RP	TSC+ 2.04	4.1		17	PLP	10
			C	01C-01C	TSC-01C		00112	610RP	TSC+ 1.87	3.5		76	PLP	10
28	113		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
23	114		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
25	114		C	02C-02C	02C-02C		00112	610RP					NDD	
			C	01C-01C	01C-01C		00112	610RP					NDD	
			C	01C-01C	TSC-01C		00112	610RP	TSC+ 2.22	3.0		257	PLP	10
			C	01C-01C	TSC-01C		00112	610RP	TSC+ 1.45	3.1		0	PLP	10
27	114		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
24	115		C	TSC-TSC	TSC-TSC		00112	610RP					NDD	
26	115		C	TSC-TSC	TSC-TSC		00112	610RP	TSC+ 0.07	2.2		71	PLP	10
70	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	
			C	02C-02C	02C-02C		00120	610RP					NDD	
72	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	
			C	02C-02C	02C-02C		00120	610RP					NDD	
74	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	
			C	02C-02C	02C-02C		00120	610RP					NDD	
76	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	
			C	02C-02C	02C-02C		00120	610RP					NDD	
78	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	
			C	02C-02C	02C-02C		00120	610RP					NDD	
80	135	EXP 2	C	03C-03C	03C-03C		00120	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

PAGE: 8 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REF	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
80	135	EXP 2	C	02C-02C	02C-02C		00120	61ORP					NDD	
82	135	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
84	135	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
86	135	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
88	135	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
90	135	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
71	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
73	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP	02C+ 0.18	0.9	34	PVN	17	
			C	02C-02C	02C-02C		00120	61ORP	02C+ 1.67	1.5	31	PVN	17	
75	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
77	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
79	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
81	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
83	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
85	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
87	136	EXP 2	C	02C-02C	02C-02C		00120	61ORP					NDD	
			C	03C-03C	03C-03C		00120	61ORP	03C- 0.69	1.4	30	PVN	1	
89	136	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
70	137	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
72	137	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
74	137	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
76	137	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
78	137	EXP 2	C	03C-03C	03C-03C		00120	61ORP					NDD	
			C	02C-02C	02C-02C		00120	61ORP					NDD	
80	137	EXP 2	C	03C-03C	03C-03C		00121	61ORP	03C+ 0.84	3.0	27	PVN	17	
			C	02C-02C	02C-02C		00121	61ORP	02C- 1.78	1.2	16	PVN	17	
82	137	EXP 2	C	03C-03C	03C-03C		00121	61ORP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

PAGE: 9 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
82	137	EXP 2	C	02C-02C	02C-02C		00121	610RP					1.3L	
84	137	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
86	137	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
88	137	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
90	137	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
71	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NLD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
73	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
75	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP	02C+ 5.04	2.0	12	PVN	17	
77	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
79	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
81	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
83	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP	02C- 4.46	1.3	10	PVN	17	
85	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
87	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
89	138	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
70	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
72	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
74	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
76	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
78	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
80	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
82	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
84	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

PAGE: 10 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
86	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
88	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
90	139	EXP 2	C	03C-03C	03C-03C		00121	610RP					NDD	
			C	02C-02C	02C-02C		00121	610RP					NDD	
71	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
73	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
75	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
77	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
79	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
81	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
85	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
87	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
89	140	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
70	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
72	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
74	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
76	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
78	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
80	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
82	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
84	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
86	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
88	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
90	141	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

PAGE: 11 OF 14
DATE: 05/01/92
TIME: 09:27:45

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
90	141	EXP 2	C	02C-02C	02C-02C		00122	610RP					NDD	
71	142	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
73	142	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NLD	
75	142	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
77	142	EXP 2	C	02C-02C	02C-02C		00122	610RP					NDD	
			C	03C-03C	03C-03C		00122	610RP	03C+ 0.46	1.9	195		PVW 17	
79	142	EXP 2	C	03C-03C	03C-03C		00122	610RP					NDD	
			C	02C-02C	02C-02C		00122	610RP					NDD	
81	142	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
83	142	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
85	142	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
87	142	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
89	142	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
70	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
72	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
74	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
76	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
78	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
80	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
82	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
84	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
86	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
88	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
90	143	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
71	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 610RP, OUTLET ONLY

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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				CH
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	
71	144	EXP 2	C	02C-02C	02C-02C		00123	610RP					NDD	
73	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
75	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
77	144	EXP 2	C	02C-02C	02C-02C		00123	610RP					NDD	
			C	03C-03C	03C-03C		00123	610RP	03C- 0.45	1.0		39	PVN	17
79	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
81	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
83	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
85	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
87	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
89	144	EXP 2	C	03C-03C	03C-03C		00123	610RP					NDD	
			C	02C-02C	02C-02C		00123	610RP					NDD	
70	145	EXP 2	C	02C-02C	02C-02C		00123	610RP					NDD	
			C	03C-03C	03C-03C		00123	610RP	03C- 0.61	0.8		32	PVN	17
72	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
74	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
76	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
78	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
80	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	
82	145	EXP 2	C	03C-03C	03C-03C		00124	610RP					NDD	
			C	02C-02C	02C-02C		00124	610RP					NDD	
			C	03C-03C	03C-03C		00128	610RP					NDD	
			C	02C-02C	02C-02C		00128	610RP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT					
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH	
84	145	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
			C	03C-03C	03C-03C		00128	61ORP						NDD	
			C	02C-02C	02C-02C		00128	61ORP						NDD	
86	145	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
			C	03C-03C	03C-03C		00128	61ORP						NDD	
			C	02C-02C	02C-02C		00128	61ORP						NDD	
88	145	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
			C	03C-03C	03C-03C		00128	61ORP						NDD	
			C	02C-02C	02C-02C		00128	61ORP						NDD	
90	145	EXP 2	C	03C-03C	03C-03C		00124	61ORP						NDD	
			C	02C-02C	02C-02C		00124	61ORP						NDD	
			C	03C-03C	03C-03C		00128	61ORP						NDD	
			C	02C-02C	02C-02C		00128	61ORP						NDD	
1	158		C	02C-03C	02C-03C		00114	61ORP						NDD	
2	159		C	02C-03C	02C-03C		00114	61ORP						NDD	
1	160		C	02C-03C	02C-03C		00114	61ORP						NDD	
			C	01C-01C	01C-01C		00114	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00114	61ORP						NDD	
3	160		C	02C-03C	02C-03C		00114	61ORP						NDD	
2	161		C	02C-03C	02C-03C		00114	61ORP	03C+ 2.96	1.6	296	PLP	7		
1	162		C	02C-03C	02C-03C		00114	61ORP	03C+ 2.30	3.0	115	PLP	7		
1	166		C	02C-02C	02C-02C		00114	61ORP						NDD	
			C	01C-01C	01C-01C		00114	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00114	61ORP						NDD	
51	182		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
53	182		C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.55	8.4	154	PLP	7		
55	182		C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.70	12.8	154	PLP	7		
48	183		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
50	183		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
52	183		C	02C-02C	02C-02C		00116	61ORP						NDD	
			C	01C-01C	01C-01C		00116	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.57	10.1	330	PLP	7		
54	183		C	02C-02C	02C-02C		00116	61ORP						NDD	
			C	01C-01C	01C-01C		00116	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.21	10.5	156	PLP	7		
47	184		C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 1.77	5.3	320	PLP	7		
49	184		C	02C-02C	02C-02C		00116	61ORP						NDD	
			C	01C-01C	01C-01C		00116	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 2.25	4.7	138	PLP	7		
			C	01C-01C	TSC-01C		00119	61ORP	TSC+ 1.50	4.7	144	PLP	7		
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.30	7.2	341	PLP	7		
51	184		C	02C-02C	02C-02C		00116	61ORP						NDD	

CUMULATIVE REPORT
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STEAM GENERATOR: 11
LOCATION: ALL
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ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	VOLTS	CURRENT				
				PROGRAM	ACTUAL						MIL	DEG	%	CH	
51	184		C	01C-01C	01C-01C		00116	61ORP						NDD	
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.36	8.5		156		PLP	7
32	185		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
34	185		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
36	185		C	TSC-TSC	TSC-TSC		00116	61ORP						NDL	
46	185		C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 1.04	3.7		139		PLP	7
31	186		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
33	186		C	02C-02C	02C-02C		00116	61ORP						NDD	
			C	01C-01C	01C-01C		00116	61ORP	01C- 1.13	3.8		151		PLP	7
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.41	4		0		<20	6
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.41			330		PLP	7
35	186		C	02C-02C	02C-02C		00116	61ORP						NDD	
			C	01C-01C	01C-01C		00116	61ORP	01C- 1.08	2.2		135		PLP	7
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 1.14	12.6		140		PLP	7
			C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 1.05	2.1		0		<20	4
37	186		C	TSC-TSC	TSC-TSC		00116	61ORP						NDD	
32	187		C	TSC-TSC	TSC-TSC		00116	61ORP	TSC+ 0.22	3.2		322		PLP	7

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 297

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 61ORP, INLET ONLY

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ROW	LIN	EXP #	LEG	EXAM EXTENT		PRM	REEL	PROBE	LOCATION	CURRENT				CH
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	
37	4		H	01H-02H	01H-02H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
39	4		H	01H-02H	01H-02H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
40	5		H	01H-02H	01H-02H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
23	6	EXP 1	H	02H-02H	02H-02H		00181	61ORP					NDD	
			H	01H-01H	01H-01H		00181	61ORP					NDD	
			H	TEH-TSH	TSH-TSH		00181	61ORP					NDD	
			H	TEH-TSH	TEH-TSH	RIC	00184	61ORP					NDD	
11	12	EXP 1	H	02H-02H	02H-02H		00181	61ORP					NDD	
			H	01H-01H	01H-01H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
5	20		H	TSH-TSH	TSH-TSH		00208	61ORP					NDD	
65	34		H	02H-02H	02H-02H		00181	61ORP					NDD	
			H	01H-01H	01H-01H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
82	37		H	02H-02H	02H-02H		00181	61ORP					NDD	
			H	01H-01H	01H-01H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
11	38	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
12	39	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
20	39	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
35	42	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
40	43	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
41	44	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
46	45	EXP 1	H	TEH-TSH	TEH-TSH		00181	61ORP					NDD	
25	48	EXP 1	H	02H-02H	02H-02H		00181	61ORP					NDD	
			H	01H-01H	01H-01H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
93	56		H	06H-07H	06H-07H		00181	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00181	61ORP					NDD	
95	56		H	06H-07H	06H-07H		00208	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00208	61ORP					NDD	
92	57		H	06H-07H	06H-07H		00184	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00184	61ORP					NDD	
94	57		H	06H-07H	06H-07H		00184	61ORP					NDD	
			H	02H-02H	02H-02H		00184	61ORP					NDD	
			H	01H-01H	01H-01H		00184	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00184	61ORP					NDD	
96	57		H	06H-07H	06H-07H		00184	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00184	61ORP					NDD	
93	58		H	06H-07H	06H-07H		00184	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00184	61ORP					NDD	
95	58		H	06H-07H	06H-07H		00184	61ORP					NDD	

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 610RP, INLET ONLY

PAGE: 2 OF 6
DATE: 05/01/92
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ROW	LIN	EXP #	LEG	EXAM EXTENT		REK	REEL	PROBE	LOCATION	CURRENT				CH
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	
95	58		H	TSH-TSH	TSH-TSH		00184	610RP						NDD
37	60	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
42	61	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
63	62	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
41	64	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
111	66		H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
40	67	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
46	67	EXP 1	H	02H-02H	02H-02H		00184	610RP						NDD
			H	01H-01H	01H-01H		00184	610RP						NDD
			H	TSH-TSH	TSH-TSH		00184	610RP						NDD
87	72	EXP 1	H	TEH-TSH	TEH-TSH		00186	610RP						NDD
88	73	EXP 1	H	TEH-TSH	TEH-TSH		00186	610RP						NDD
87	74	EXP 1	H	TEH-TSH	TEH-TSH		00186	610RP						NDD
89	74	EXP 1	H	TEH-TSH	TEH-TSH		00186	610RP						NDD
30	75	EXP 1	H	02H-02H	02H-02H		00186	610RP						NDD
			H	01H-01H	01H-01H		00186	610RP						NDD
			H	TSH-TSH	TSH-TSH		00186	610RP						NDD
87	76	EXP 1	H	TEH-TSH	TSH-TSH		00196	610RP						NDD
			H	TEH-TSH	TEH-TSH	RIC	00208	610RP						NDD
155	76		H	03H-04H	03H-04H		00208	610RP						NDD
			H	TSH-TSH	TSH-TSH		00208	610RP						NDD
156	77		H	03H-04H	03H-04H		00186	610RP						NDD
			H	TSP-TSH	TSH-TSH		00186	610RP						NDD
61	78	EXP 1	H	02H-02H	02H-02H		00186	610RP						NDD
			H	01H-01H	01H-01H		00186	610RP						NDD
			H	TSH-TSH	TSH-TSH		00186	610RP						NDD
157	78		H	03H-04H	03H-04H		00186	610RP						NDD
			H	02H-02H	02H-02H		00186	610RP						NDD
			H	01H-01H	01H-01H		00186	610RP						NDD
			H	TSH-TSH	TSH-TSH		00186	610RP						NDD
48	79	EXP 1	H	02H-02H	02H-02H		00186	610RP						NDD
			H	01H-01H	01H-01H		00186	610RP						NDD
			H	TSH-TSH	TSH-TSH		00186	610RP						NDD

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02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALI
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ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
156	79		H	03H-04H	03H-04H		00208	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00208	61ORP					NDD	
29	80		H	02H-02H	02H-02H		00186	61ORP					NDD	
			H	01H-01H	01H-01H		00186	61ORP					NDD	
			H	TEH-TSH	TSH-TSH		00186	61ORP					NDD	
			H	TEH-TSH	TEH-TSH	RPI	00208	61ORP	TSH- 0.88	3.1		107	SAI	5
157	80		H	03H-04H	03H-04H		00208	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00208	61ORP					NDD	
30	81		H	TEH-TSH	TEH-TSH		00186	61ORP					NDD	
90	85	EXP 1	H	02H-02H	02H-02H		00186	61ORP					NDD	
			H	01H-01H	01H-01H		00186	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00186	61ORP					NDD	
44	91		H	06H-07H	06H-07H		00213	61ORP					NDD	
			H	05H-06H	05H-06H		00213	61ORP					NDD	
			H	04H-05H	04H-05H		00213	61ORP					NDD	
			H	03H-04H	03H-04H		00213	61ORP					NDD	
			H	02H-03H	02H-03H		00213	61ORP					NDD	
			H	01H-02H	01H-02H		00213	61ORP					NDD	
			H	TSH-01H	TSH-01H		00213	61ORP					NDD	
			H	TEH-TSH	TEH-TSH	RPI	00214	61ORP	TEH- 0.00	2.9		46	SAI	3
43	92		H	06H-07H	06H-07H		00214	61ORP					NDD	
			H	05H-06H	05H-06H		00214	61ORP					NDD	
			H	04H-05H	04H-05H		00214	61ORP					NDD	
			H	03H-04H	03H-04H		00214	61ORP					NDD	
			H	02H-03H	02H-03H		00214	61ORP					NDD	
			H	01H-02H	01H-02H		00214	61ORP					NDD	
			H	TSH-01H	TSH-01H		00214	61ORP					NDD	
			H	TEH-TSH	TEH-TSH		00214	61ORP					NDD	
			H	TEH-TSH	TEH-TEH		00216	61ORP					NDD	
111	98		H	02H-02H	02H-02H		00202	61ORP					NDD	
			H	01H-01H	01H-01H		00202	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00202	61ORP					NDD	
145	100	EXP 1	H	TEH-TSH	TSH-TSH		00202	61ORP					NDD	
			H	TEH-TSH	TEH-TSH	RIC	00210	61ORP					NDD	
33	106		H	02H-02H	02H-02H		00202	61ORP					NDD	
			H	01H-01H	01H-01H		00202	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00202	61ORP					NDD	
117	106		H	02H-02H	02H-02H		00202	61ORP					NDD	
			H	01H-01H	01H-01H		00202	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00202	61ORP					NDD	
145	106	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP					NDD	
58	109	EXP 1	H	02H-02H	02H-02H		00202	61ORP					NDD	
			H	01H-01H	01H-01H		00202	61ORP					NDD	
			H	TSH-TSH	TSH-TSH		00202	61ORP					NDD	
136	109	EXP 1	H	01H-01H	01H-01H		00202	61ORP					NDD	

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STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 61ORP, INLET ONLY

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ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	VOLTS	CURRENT				
				PROGRAM	ACTUAL						MIL	DEG	%	CH	
136	109	EXP 1	H	TSH-TSH	TSH-TSH		00202	61ORP						NDD	
			H	O2H-O2H	O2H-O2H		00202	61ORP						NDD	
148	109	EXP 1	H	O2H-O2H	O2H-O2H		00202	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00202	61ORP						NDD	
			H	TSH-TSH	TSH-TSH	RPI	00202	61ORP	TSH- 0.32	0.9		121	GAI	2	
93	110	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
28	111		H	TEH-TSH	TEH-TSH		00210	61ORP						NDD	
128	111	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
93	112	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
			H	O2H-O2H	O2H-O2H		00202	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00202	61ORP						NDD	
93	114	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
127	114	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
90	115	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
89	116	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
93	116	EXP 1	H	TEH-TSH	TEH-TSH		00202	61ORP						NDD	
			H	O2H-O2H	O2H-O2H		00202	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00202	61ORP						NDD	
117	116		H	O2H-O2H	O2H-O2H		00202	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00202	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00202	61ORP						NDD	
93	118	EXP 1	H	TEH-TSH	TEH-TSH		00206	61ORP						NDD	
171	118	EXP 1	H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
			H	O2H-O3H	O2H-O3H	RPI	00206	61ORP	O2H+ 7.71	5.1		4	57	1	
93	122		H	TEH-TSH	TEH-TSH		00210	61ORP						NDD	
93	124		H	TEH-TSH	TEH-TSH		00206	61ORP						NDD	
100	125		H	O2H-O2H	O2H-O2H		00206	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
93	126		H	TEH-TSH	TEH-TSH		00206	61ORP						NDD	
50	125	EXP 1	H	O2H-O2H	O2H-O2H		00206	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
71	130		H	O2H-O2H	O2H-O2H		00206	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
79	136		H	O2H-O2H	O2H-O2H		00206	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
133	140	EXP 1	H	O2H-O2H	O2H-O2H		00206	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00206	61ORP						NDD	
			H	TSH-TSH	TSH-TSH		00206	61ORP						NDD	
76	141		H	O2H-O2H	O2H-O2H		00208	61ORP						NDD	
			H	O1H-O1H	O1H-O1H		00208	61ORP						NDD	

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STEAM GENERATOR: 12
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ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
76	141		H	TSH-TSH	TSH-TSH		00208	610RP						NDD
13	141	EXP 1	H	02H-02H	02H-02H		00206	610RP						NDD
			H	01H-01H	01H-01H		00206	610RP						NDD
			H	TSH-TSH	TSH-TSH		00206	610RP						NDD
121	142	EXP 1	H	TSH-TSH	TSH-TSH		00206	610RP						NDD
			H	01H-02H	01H-02H		00206	610RP	01H+ 10.98	1.8		3	PVN	2
46	145	EXP 1	H	TEH-TSH	TEH-TSH		00206	610RP						NDD
35	148	EXP 1	H	TEH-TSH	TEH-TSH		00206	610RP						NDD
9	152	EXP 1	H	TEH-TSH	TEH-TSH		00206	610RP						NDD
11	152	EXP 1	H	02H-02H	02H-02H		00206	610RP						NDD
			H	01H-01H	01H-01H		00206	610RP						NDD
			H	TEH-TSH	TEH-TSH	RPI	00206	610RP	TSH- 0.63	2.7		118	SAI	5
84	155		H	02H-02H	02H-02H		00206	610RP						NDD
			H	01H-01H	01H-01H		00206	610RP						NDD
			H	TSH-TSH	TSH-TSH		00206	610RP						NDD
88	155	EXP 1	H	02H-02H	02H-02H		00208	610RP						NDD
			H	01H-01H	01H-01H		00208	610RP						NDD
			H	TSH-TSH	TSH-TSH		00208	610RP						NDD
54	157	LXP 1	H	TEH-TSH	TEH-TSH		00208	610RP						NDD
111	160		H	TEH-TSH	TEH-TSH		00208	610RP						NDD
98	161	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
100	161	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
97	162	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
99	162	EXP 1	H	TSH-TSH	TSH-TSH		00208	610RP						NDD
			H	01H-02H	01H-02H		00208	610RP	01H+ 2.73	0.6		0	<20	18
			H	01H-02H	01H-02H		00208	610RP	01H+ 2.73	1.4		0	PLP	10
101	162	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
111	162		H	02H-02H	02H-02H		00208	610RP						NDD
			H	01H-01H	01H-01H		00208	610RP						NDD
			H	TEH-TSH	TEH-TSH	RPI	00208	610RP	TSH- 0.92	3.3		228	SAI	18
98	163	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
100	163	EXP 1	H	01H-02H	01H-02H		00210	610RP						NDD
88	165	EXP 1	H	02H-02H	02H-02H		00208	610RP						NDD
			H	01H-01H	01H-01H		00208	610RP						NDD
			H	TSH-TSH	TSH-TSH		00208	610RP						NDD
32	177	EXP 1	H	02H-02H	02H-02H		00202	610RP						NDD
			H	01H-01H	01H-01H		00202	610RP						NDD
			H	TSH-TSH	TSH-TSH		00202	610RP						NDD
25	188		H	TEH-TSH	TEH-TSH		00202	610RP						NDD

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STEAM GENERATOR: 12
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NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 98

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

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STEAM GENERATOR: 12
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ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
2	1		C	TSC-TSC	TSC-TSC		00194	61ORP						NDD
			C	02C-02C	02C-02C		00194	61ORP	02C 0.83	4.1		0	39	18
23	2		C	02C-03C	02C-03C		00194	61ORP						NDD
25	2		C	TSC-TSC	TSC-TSC		00194	61ORP						NDD
			C	02C-03C	02C-03C		00194	61ORP	02C+ 36.50					PLP 10
26	3		C	02C-03C	02C-03C		00194	61ORP						NDD
49	10		C	TSC-01C	TSC-01C		00195	61ORP						NDD
51	10		C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 0.63	4.5		90	PLP	10
48	11		C	TSC-01C	TSC-01C		00195	61ORP						NDD
50	11		C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 4.57	4.6		0	PLP	10
52	11		C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 2.12	4.4		271	PLP	10
58	11		C	TSC-01C	TSC-01C		00195	61ORP						NDD
60	11		C	TSC-01C	TSC-01C		00195	61ORP						NDD
47	12	EXP 1	C	TSC-01C	TSC-01C		00195	61ORP						NDD
49	12		C	TSC-01C	TSC-01C		00197	61ORP	TSC+ 8.62	4.6		87	PLP	10
51	12		C	TSC-01C	TSC-01C		00197	61ORP	TSC+ 6.61	4.5		90	PLP	10
53	12	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
57	12	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
59	12	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP	TSC 0.55	3.1		80	PLP	10
61	12		C	TSC-01C	TSC-01C		00199	61ORP	TSC+ 0.42	1.6		83	PLP	10
48	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
50	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
52	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
58	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP						NDD
60	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP	TSC+ 0.37	2.1		82	PLP	10
3	17		C	TSC-TSC	TSC-TSC		00194	61ORP						NDD
62	27	EXP 1	C	06C-07C	06C-07C		00195	61ORP						NDD
64	27	EXP 1	C	06C-07C	06C-07C		00195	61ORP						NDD
57	28	EXP 1	C	06C-07C	06C-07C		00195	61ORP						NDD
59	28	EXP 1	C	06C-07C	06C-06C		00195	61ORP						NDD
			C	06C-07C	06C-07C	RIC	00197	61ORP						NDD
61	28		C	06C-07C	06C-07C		00195	61ORP						NDD
63	28		C	TSC-TSC	TSC-TSC		00195	61ORP						NDD
			C	06C-07C	06C-07C		00197	61ORP						NDD
65	28		C	06C-07C	06C-07C		00197	61ORP						NDD
32	29	EXP 1	C	04C-05C	04C-05C		00194	61ORP						NDD
34	29	EXP 1	C	04C-05C	04C-05C		00195	61ORP						NDD
56	29	EXP 1	C	06C-07C	06C-07C		00197	61ORP						NDD
58	29	EXP 1	C	TSC-TSC	TSC-TSC		00197	61ORP						NDD
60	29		C	06C-07C	06C-07C		00197	61ORP						NDD
62	29		C	06C-07C	06C-07C		00197	61ORP						NDD
64	29		C	06C-07C	06C-07C		00197	61ORP						NDD
106	29	EXP 1	C	06C-07C	06C-07C		00201	61ORP						NDD
108	29		C	06C-07C	06C-07C		00201	61ORP						NDD
31	30	EXP 1	C	04C-05C	04C-05C		00194	61ORP						NDD

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STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

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ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	VOLTS	CURRENT								
				PROGRAM	ACTUAL						AIL	DEG	%	CH					
33	30	EXP 1	C	TSC-TSC	TSC-TSC		00194	61ORP											
			C	04C-05C	04C-05C		00194	61ORP	04C+ 36.95	1.1		78	PLP	10					
35	30	EXP 1	C	04C-05C	04C-05C		00194	61ORP											
57	30	EXP 1	C	06C-07C	06C-07C		00199	61ORP											
59	30	EXP 1	C	TSC-TSC	TSC-TSC		00201	61ORP											
			C	06C-07C	06C-07C		00201	61ORP											
61	30		C	06C-07C	06C-07C		00199	61ORP											
105	30	EXP 1	C	06C-07C	06C-07C		00199	61ORP											
107	30	EXP 1	C	TSC-TSC	TSC-TSC		00199	61ORP											
			C	06C-07C	06C-07C		00199	61ORP											
109	30		C	06C-07C	06C-07C		00199	61ORP											
32	31	EXP 1	C	04C-05C	04C-05C		00194	61ORP											
34	31	EXP 1	C	04C-05C	04C-05C		00194	61ORP											
58	31	EXP 1	C	06C-07C	06C-07C		00201	61ORP											
60	31		C	06C-07C	06C-07C		00203	61ORP											
106	31	EXP 1	C	06C-07C	06C-07C		00201	61ORP											
108	31	EXP 1	C	06C-07C	06C-07C		00201	61ORP											
105	34	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP											
107	34	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP	TSC+ 13.48	0.6		79	PLP	10					
104	35	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP											
106	35	EXP 1	C	TSC-01C	TSC-01C		00209	61ORP	TSC+ 13.38	1.0		261	PLP	10					
108	35	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP	TSC+ 13.59	0.7		78	PLP	10					
122	35		C	TSC-TSC	TSC-TSC		00201	61ORP											
105	36	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP											
107	36	EXP 1	C	TSC-01C	TSC-01C		00203	61ORP											
			C	TEC-TSC	TEC-TSC		00203	61ORP											
125	42	EXP 1	C	06C-07C	06C-07C		00189	61ORP											
127	42		C	06C-07C	06C-07C		00189	61ORP											
124	43	EXP 1	C	06C-07C	06C-07C		00189	61ORP											
126	43	EXP 1	C	TSC-TSC	TSC-TSC		00189	61ORP											
			C	06C-07C	06C-07C		00189	61ORP											
125	44	EXP 1	C	06C-07C	06C-07C		00189	61ORP											
127	44	EXP 1	C	06C-07C	06C-07C		00189	61ORP											
60	51		C	TEC-TSC	TEC-TSC		00193	61ORP											
99	54		C	TEC-01C	TEC-02C		00189	61ORP											
			C	TSC-TSC	TSC-TSC		00189	61ORP											
			C	TEC-01C	TEC-01C		00190	61ORP											
			C	TSC-TSC	TSC-TSC		00190	61ORP											
39	62	EXP 1	C	TSC-TSC	TSC-TSC		00189	61ORP											
150	85	EXP 1	C	TSC-TSC	TSC-TSC		00189	61ORP											
			C	03C-04C	03C-04C		00189	61ORP	03C+ 18.31	1.0		74	PLP	18					
158	87		C	TSC-TSC	TSC-TSC		00189	61ORP											
137	88	EXP 1	C	TSC-TSC	TSC-TSC		00189	61ORP											
			C	02C-03C	02C-03C	RPI	00189	61ORP	02C+ 35.75	1.6		72	43	4					
144	135		C	TSC-TSC	TSC-TSC		00190	61ORP											

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02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 61ORP, OUTLET ONLY

PAGE: 3 OF 4
DATE: 05/01/92
TIME: 09:37:08

ROW	LIN	EXP #	LEG	EXAM EXTENT		REM	PTEL	PROBE	LOCATION	VOLTS	CURRENT			
				PROGRAM	ACTUAL						MIL	DEG	%	CH
144	135		C	03C-03C	03C-03C		00190	61ORI	03C+ 0.03	2.1		0	22	18
97	142		C	TSC-01C	TSC-TSC		00190	61ORP					NDD	
			C	TSC-01C	TSC-01C	RIC	00193	61ORP	TSC+ 10.90	5.2		10	PVN	2
63	180		C	02C-03C	02C-03C		00190	61ORP					NDD	
65	180		C	02C-03C	02C-03C		00190	61ORP					NDD	
62	181		C	02C-03C	02C-03C		00190	61ORP					NDD	
64	181		C	TSC-01C	TSC-01C		00190	61ORP					NDD	
			C	02C-03C	02C-03C		00190	61ORP	02C+ 36.13	4.7		276	PLP	10
50	183		C	02C-03C	02C-03C		00190	61ORP					NDD	
52	193		C	02C-03C	02C-03C		00193	61ORP					NDD	
39	184		C	03C-03C	03C-03C		00190	61ORP					NDD	
			C	02C-02C	02C-02C		00190	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00190	61ORP					NDD	
41	184		C	TSC-TSC	TSC-TSC		00190	61ORP					NDD	
			C	03C-03C	03C-03C		00192	61ORP					NDD	
			C	02C-02C	02C-02C		00192	61ORP					NDD	
43	184		C	03C-03C	03C-03C		00192	61ORP					NDD	
			C	02C-02C	02C-02C		00192	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00192	61ORP					NDD	
45	184		C	03C-03C	03C-03C		00192	61ORP					NDD	
			C	02C-02C	02C-02C		00192	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00192	61ORP					NDD	
47	184		C	03C-03C	03C-03C		00192	61ORP					NDD	
			C	02C-02C	02C-02C		00192	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00192	61ORP					NDD	
49	184		C	02C-03C	02C-03C		00192	61ORP					NDD	
51	184		C	TSC-TSC	TSC-TSC		00192	61ORP					NDD	
			C	02C-03C	02C-03C		00192	61ORP	02C+ 36.45	2.5		277	PLP	10
40	185		C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.40	5.0		89	PLP	10
			C	TSC-TSC	TSC-TSC	RPI	00192	61ORP	TSC+ 0.30	12.0		0	69	18
42	185		C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.96	0.5		264	PLP	10
44	185		C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.97	0.9		262	PLP	10
46	185		C	TSC-TSC	TSC-TSC		00192	61ORP					NDD	
			C	02C-03C	02C-03C		00192	61ORP	02C+ 35.94	2.1		0	23	18
			C	02C-03C	02C-03C		00192	61ORP	02C+ 35.58	4.0		96	PLP	10
35	186		C	03C-03C	03C-03C		00192	61ORP					NDD	
			C	02C-02C	02C-02C		00192	61ORP					NDD	
			C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.32	6.4		89	PLP	10
			C	TSC-TSC	TSC-TSC	RPI	00192	61ORP	TSC+ 0.22	6.0		0	8	18

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PROBE = 61ORP. OUTLET ONLY

PAGE: 4 OF 4
DATE: 05/01/92
TIME: 09:37:08

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 95

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

APPENDIX E

SUMMARY DATA SHEETS PLP

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PLP

PAGE: 1 OF 2
DATE: 04/01/92
TIME: 19:54:25

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
33	4		C	TEC-TEH	TEC-TEH		00077	610UL	TSC+ 0.71	2.3		212	PLP	8
			C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.71	10.3		32	PLP	10
			C	TEC-TEH	TEC-TEH		00070	620UL	TSC+ 0.55	0.5		50	PLP	7
35	4		C	TEC-TEH	TEC-TEH		00070	620UL	TSC+ 0.87	2.1		183	PLP	8
			C	TEC-TEH	TEC-TEH		00077	610UL	TSC+ 0.74	2.1		168	PLP	8
			C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.53	11.5		211	PLP	10
37	4		C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.30	5.6		215	PLP	10
39	4		C	TEC-TEH	TEC-TEH		00068	610UL	O2C+ 36.34	1.2		301	PLP	8
			C	TEC-TEH	TEC-TEH		00077	610UL	O2C+ 36.34	1.1		302	PLP	8
34	5		C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.31	9.0		27	PLP	10
36	5		C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.25	3.6		216	PLP	10
40	5		C	TSC-TSC	TSC-TSC		00109	610RP	TSC+ 0.24	6.6		18	PLP	10
46	5		C	TEC-TEH	TEC-TEH		00077	610UL	O2C+ 36.40	1.7		256	PLP	8
			C	TEC-TEH	TEC-TEH		00068	610UL	O2C+ 36.38	2.1		235	PLP	8
			C	O2C-O3C	O2C-O3C		00109	610RP	O2C+ 35.97	18.7		213	PLP	10
51	6		C	TEC-TEH	TEC-TEH		00068	610UL	O2C+ 36.32	1.2		255	PLP	8
			C	TEC-TEH	TEC-TEH		00077	610UL	O2C+ 36.28	1.3		253	PLP	8
8	7		C	TSC-TSC	TSC-TSC		00110	610RP	TSC+ 0.56	12.6		29	PLP	10
			C	TEC-TEH	TEC-TEH		00077	610UL	TSC+ 0.54	0.7		280	PLP	8
68	13		C	TEC-TEH	TEC-TEH		00066	610UL	O1C+ 1.23	5.7		262	PLP	8
			C	TEC-TEH	TEC-TEH		00077	610UL	O1C+ 1.22	1.4		228	PLP	8
			C	TEC-TEH	TEC-TEH		00066	610UL	O1C+ 1.20	0.3		0	PLP	18
			C	O1C-O1C	O1C-O1C		00110	610RP	O1C+ 1.03	11.3		37	PLP	10
70	13		C	TEC-TEH	TEC-TEH		00066	610UL	O1C+ 1.23	0.6		203	PLP	8
			C	O2C-O2C	O1C-O2C		00111	610RP	O1C+ 0.81	2.4		190	PLP	10
69	14		C	O1C-O1C	O1C-O1C		00111	610RP	O1C+ 1.04	6.1		195	PLP	10
			C	TEC-TEH	TEC-TEH		00066	610UL	O1C+ 0.96	1.0		197	PLP	8
85	20		C	TEC-TEH	TEC-TEH		00077	610UL	O1H+ 1.74	0.8		186	PLP	8
			C	TEC-TEH	TEC-TEH		00070	620UL	O1H+ 1.75	0.9		188	PLP	8
			H	O1H-O1H	O1H-O1H		00096	610RP	O1H+ 1.88	3.3		54	PLP	10
10	27		H	TEH-O2H	TEH-O2H		00078	610UL	O2H+ 4.79	0.7		166	PLP	8
69	34		C	O1C-O2C	O1C-O2C		00111	610RP	O1C+ 9.33	2.4		325	PLP	7
71	34		C	O1C-O2C	O1C-O2C		00111	610RP	O1C+ 9.14	1.3		333	PLP	7
70	35		C	O2C-O2C	O1C-O2C		00111	610RP	O1C+ 9.32	5.9		168	PLP	7
			C	TEC-TEH	TEC-TEH		00063	610UL	O1C+ 6.99	0.8		338	PLP	6
2	71		C	TEC-O7H	TEC-O7H		00073	590UL	O2C+ 41.09				PLP	8
			C	O2C-O3C	O2C-O3C		00112	610RP	O2C+ 28.52to+ 40.90	1.0		103	PLP	10
			C	O1C-O1C	O1C-O1C		00112	610RP	O1C+ 0.93	1.0		251	PLP	10
33	72	EXP 1	C	O1C-O2C	O1C-O2C		00114	610RP	O1C+ 0.59	9.4		146	PLP	7
48	103	EXP 1	H	TSH-TSH	TSH-TSH		00115	610RP	TSH- 0.00	2.6		151	PLP	7
26	113		C	O1C-O1C	TSC-O1C		00114	610RP	TSC+ 2.04	4.1		17	PLP	10
			C	TEC-TEH	TEC-TEH		00036	610UL	TSC+ 2.00	1.2		40	PLP	8
			C	O1C-O1C	TSC-O1C		00112	610RP	TSC+ 1.87	3.5		76	PLP	10
25	114		C	O1C-O1C	TSC-O1C		00112	610RP	TSC+ 2.22	3.0		257	PLP	10
			C	TEC-1EH	TEC-TEH		00036	610UL	TSC+ 1.65	0.9		30	PLP	8

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11
LOCATION: ALL
CRITERIA: PLP

PAGE: 2 OF 2
DATE: 04/01/92
TIME: 19:54:25

ROW	LIN	HEAT#	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	CURRENT				
				PROGRAM	ACTUAL					VOLTS	MIL	DEG	%	CH
25	114		C	01C-01C	TSC-01C		00112	610RP	TSC+ 1.47	3.1		0	PLP	10
26	115		C	TSC-TSC	TSC-TSC		00112	610RP	TSC+ 0.07	2.2		71	PLP	10
72	149		C	TEC-TEH	TEC-TEH		00014	610UL	01H+ 2.88	3.9		154	PLP	6
1	160		C	TEC-07H	TEC-07H		00059	590UL	02C+ 5.70	0.6		129	PLP	8
59	160	EXP 1	H	TEH-02H	TEH-02H		00009	610UL	02H+ 1.87	1.8		107	PLP	6
2	161		C	02C-03C	02C-03C		00114	610RP	03C+ 2.96	1.6		296	PLP	7
1	161		C	02C-03C	02C-03C		00114	610RP	03C+ 2.30	3.0		115	PLP	7
53	182		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.55	8.4		154	PLP	7
55	182		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.70	12.8		154	PLP	7
52	183		C	TEC-TEH	TEC-TEH		00010	610UL	TSC+ 0.70	6.7			PLP	8
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.57	10.1		330	PLP	7
54	183		C	TEC-TEH	TEC-TEH		00010	610UL	TSC+ 0.75	10.1			PLP	8
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.21	10.5		156	PLP	7
47	184		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 1.77	5.3		320	PLP	7
49	184		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 2.25	4.7		138	PLP	7
			C	01C-01C	TSC-01C		00119	610RP	TSC+ 1.50	4.7		144	PLP	7
			C	TEC-TEH	TEC-TEH		00010	610UL	TSC+ 0.54	7.3			PLP	8
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.30	7.2		341	PLP	7
51	184		C	TEC-TEH	TEC-TEH		00010	610UL	TSC+ 0.45	6.3			PLP	8
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.36	8.5		156	PLP	7
46	185		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 1.04	3.7		139	PLP	7
33	186		C	01C-01C	01C-01C		00116	610RP	01C- 1.13	3.8		151	PLP	7
			C	TEC-TEH	TEC-TEH		00011	610UL	TSC+ 0.99	9.8			PLP	8
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.41	13.3		330	PLP	7
35	186		C	01C-01C	01C-01C		00116	610RP	01C- 1.08	2.2		135	PLP	7
			C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 1.14	12.6		140	PLP	7
			C	TEC-TEH	TEC-TEH		00011	610UL	TSC+ 0.96	1.1		184	PLP	8
32	187		C	TSC-TSC	TSC-TSC		00116	610RP	TSC+ 0.22	3.2		322	PLP	7

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 40

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

MAP OPTIONS:

Plot data from current examination only

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PLP

PAGE: 1 OF 2
DATE: 04/04/92
TIME: 03:08:31

RCW	LIN	EXP #	LEG	EXAM EXTENT		REM	REEL	PROBE	LOCATION	VOLTS	CURRENT				
				PROGRAM	ACTUAL						MIL	DEG	%	CH	
25	2		C	02C-03C	02C-03C		00194	61ORP	02C+ 36.50					PLP	10
			C	TEC-TEH	TEC-TEH		00092	61OUL	02C+ 36.45	1.5		226		PLP	8
51	10		C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 0.63	4.5		90		PLP	10
50	11		C	TEC-TEH	TEC-TEH		00091	61OUL	TSC+ 6.01					PLP	8
			C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 4.57	4.6		0		PLP	10
52	11		C	TSC-01C	TSC-01C		00195	61ORP	TSC+ 2.12	4.4		271		PLP	10
49	12		C	TEC-TEH	TEC-TEH		00091	61OUL	TSC+ 8.56	1.1		188		PLP	8
			C	TSC-01C	TSC-01C		00197	61ORP	TSC+ 8.62	4.6		87		PLP	10
51	12		C	TEC-TEH	TEC-TEH		00091	61OUL	TSC+ 7.58	1.3		190		PLP	8
			C	TSC-01C	TSC-01C		00197	61ORP	TSC+ 6.51	4.5		90		PLP	10
59	12	EXP 1	C	TEC-07H	TEC-07H		00102	61OUC	TSC+ 1.19	17.2		157		PLP	8
			C	TSC-01C	TSC-01C		00199	61ORP	TSC+ 0.55	3.1		80		PLP	10
61	12		C	TSC-01C	TSC-01C		00199	61ORP	TSC+ 0.42	1.6		83		PLP	10
60	13	EXP 1	C	TSC-01C	TSC-01C		00199	61ORP	TSC+ 0.37	2.1		82		PLP	10
33	30	EXP 1	C	04C-05C	04C-05C		00194	61ORP	04C+ 36.95	1.1		78		PLP	10
			C	TEC-07H	TEC-07H		00194	61OUC	04C+ 36.41	0.7		326		PLP	6
107	34	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP	TSC+ 13.48	0.6		78		PLP	10
106	35	EXP 1	C	TEC-08H	TEC-VS2		00115	61OUC	TSC+ 13.52	0.4		157		PLP	6
			C	TSC-01C	TSC-01C		00209	61ORP	TSC+ 13.38	1.0		261		PLP	10
108	35	EXP 1	C	TSC-01C	TSC-01C		00201	61ORP	TSC+ 13.59	0.7		78		PLP	10
99	162	EXP 1	H	01H-02H	01H-02H		00208	61ORP	01H+ 2.73	1.4		0		PLP	10
64	181		C	02C-03C	02C-03C		00190	61ORP	02C+ 36.13	4.7		276		PLP	10
			C	TEC-TEH	TEC-TEH		00008	61OUL	02C+ 35.76	1.2		241		PLP	6
51	184		C	02C-03C	02C-03C		00192	61ORP	02C+ 36.45	2.5		277		PLP	10
			C	TEC-TEH	TEC-TEH		00006	61OUL	02C+ 35.85	1.4		245		PLP	8
40	185		C	TEC-TEH	TEC-TEH		00006	61OUL	TSC+ 0.47	5.5				PLP	8
			C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.40	5.0		89		PLP	10
42	185		C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.96	0.5		264		PLP	10
			C	TEC-TEH	TEC-TEH		00006	61OUL	TSC+ 0.84					PLP	8
44	185		C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.97	0.9		262		PLP	10
			C	TEC-TEH	TEC-TEH		00006	61OUL	TSC+ 0.87					PLP	8
46	185		C	TEC-TEH	TEC-TEH		00006	61OUL	02C+ 35.81	1.8		241		PLP	8
			C	02C-03C	02C-03C		00192	61ORP	02C+ 35.58	4.0		96		PLP	10
			C	TEC-TEH	TEC-TEH		00006	61OUL	02C+ 9.11	0.6		87		PLP	8
39	186		C	TEC-TEH	TEC-TEH		00006	61OUL	TSC+ 0.72	0.8		155		PLP	8
			C	TSC-TSC	TSC-TSC		00192	61ORP	TSC+ 0.32	6.4		89		PLP	10

CUMULATIVE REPORT
02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12
LOCATION: ALL
CRITERIA: PLP

PAGE: 2 OF 2
DATE: 04/04/92
TIME: 03:08:31

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 21

NO TREND ANALYSIS REQUESTED

REPORT OPTIONS:

Only examination results matching criteria are included

MAP OPTIONS:

Plot data from current examination only

APPENDIX F

TUBE PLUG MAP

02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEP GENERATOR: 11

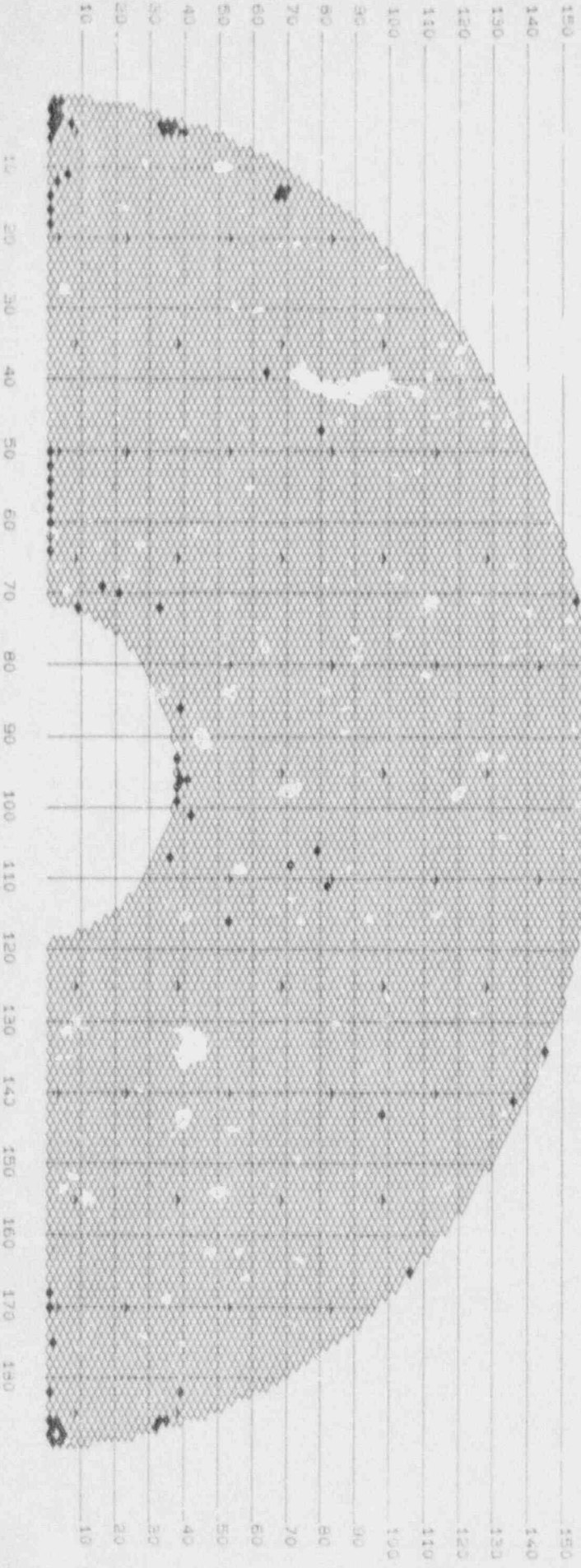
LOCATION: ALL
CRITERIA: PLG

STAYS

PLUSSED

74

DATE: 04/04/92
TIME: 14:35:42



STEAM GENERATOR: 12

02/92, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

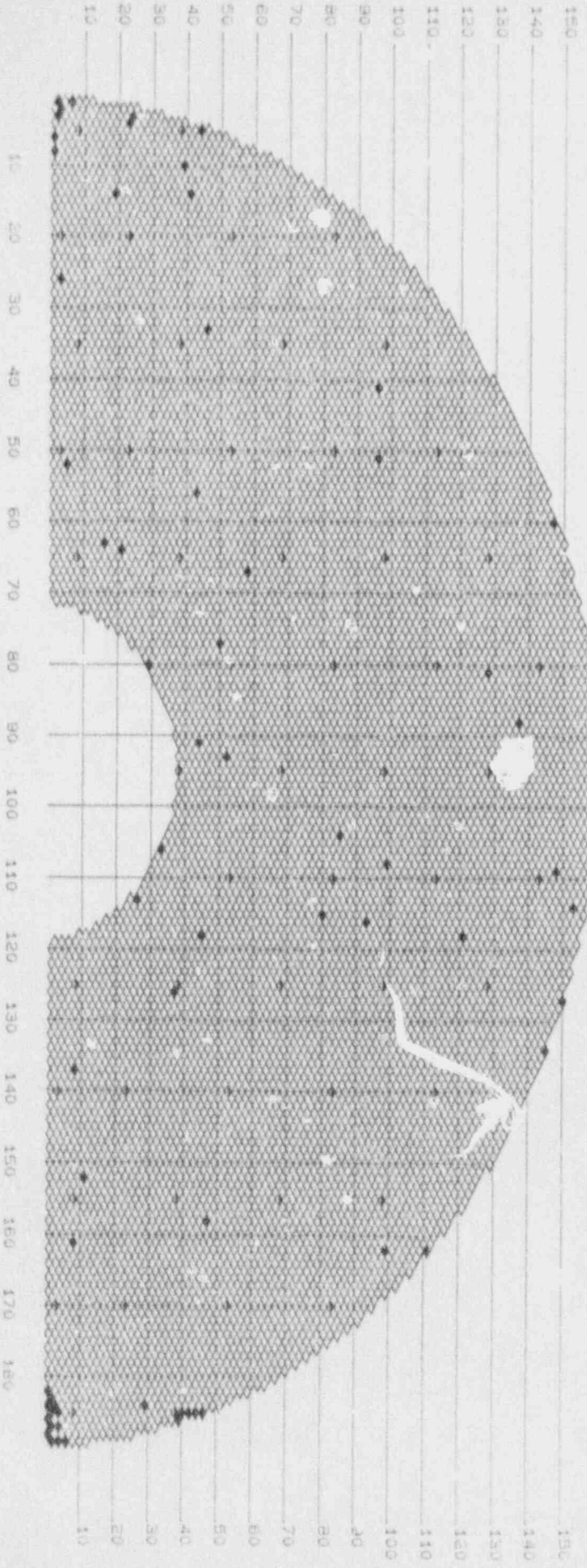
DATE: 04/04/92
TIME: 16:19:14

LOCATION: ALL
CRITERIA: PLS

STAYS

PLUGGED

67



A. PENDIX G

FORM NIS-1

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER ARIZONA PUBLIC SERVICE COMPANY, et al
ADDRESS P.O. BOX 52034; PHOENIX, ARIZONA
2. PLANT PALO VERDE NUCLEAR GENERATING STATION
ADDRESS 4 MILES SOUTH WINTERSBURG, ARIZONA
3. UNIT NUMBER: 1
4. OWNERS CERTIFICATE OF AUTHORIZATION NONE
5. COMMERCIAL SERVICE DATE: 1/28/86
6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO
1MRCEE01A STEAM GENERATOR 11 TUBING	COMBUSTION ENGINEERING	78273-1	N/A	22499
1MRCEE01B STEAM GENERATOR 12 TUBING	COMBUSTION ENGINEERING	78273-2	N/A	22500

7. EXAM DATES 03/17/92 TO 04/11/92
8. INSPECTION INTERVAL FROM 01/28/86 TO 03/17/97
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL

In steam generator 11 a total of 4076 tubes were examined full length, and all remaining tubes were examined part length. For steam generator 12 a total of 3804 tubes were examined full length, and all remaining tubes were examined part length. Several degraded/defective tubes were observed and they are documented in Appendix C, D, and E of this report. The tubes identified on the following pages were plugged and/or staked as a result of this examination.

TUBES PLUGGED:

SG 11 = 23
SG 12 = 18

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI

DATE 8-12-92 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY *DRH*

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OF PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 3-17-92 TO 4-11-92, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASME CODE, SECTION XI. BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

INSPECTOR *Robert S. Ferguson* COMMISSIONS 28 9685 2071 Az 264
DATE 4-3-92 N.B.T. BOARD, STATE, PROVINCE

STEAM GENERATOR 11 STEAM GENERATOR 12

<u>ROW</u>	<u>LINE</u>	<u>ROW</u>	<u>LINE</u>
4	3	3	184
68	13	46	185
70	13	99	162
69	14	40	185
1	16	42	185
1	18	44	185
33	4	39	186
35	4	4	187
37	4	33	106
34	5	29	80
36	5	137	88
40	5	93	116
33	186	11	152
35	186	148	109
32	157	121	118
33	72	44	91
39	96	111	162
38	97	2	1
36	107		
154	71		
159	102		
145	134		
1	6		