

PALO VERDE NUCLEAR GENERATING STATION  
UNIT 1  
STEAM GENERATOR EDDY CURRENT EXAMINATION  
6TH REFUELING OUTAGE  
OCTOBER, 1996.

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

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REVIEWED BY: DGH- DATE: 5-8-97  
APPROVED BY: Alan Morrow DATE: 5-8-97

COMMERCIAL SERVICE DATE: 1/28/86  
REPORT DATE: 5/8/97

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## UNIT 1 STEAM GENERATOR EDDY CURRENT EXAMINATION

### 1.0 Summary

The Unit 1 6th refueling outage eddy current examinations were conducted during the month of October of 1996. The initial examination plan for both steam generators was as follows.

- Examine 100% of steam generator 11 (SG 11) and steam generator 12 (SG 12) using bobbin coil technique.
- Examine ~2500 tubes each in SG 11 and SG 12 from 07H-2nd VS using the rotating coil (RC) technique. These tubes were selected in the area of interest for ARC region axial indications.
- Examine ~200 tubes each in SG 11 and SG 12 from 07H-2nd VS using RC. These tubes were selected in areas between columns 40 - 150 and rows 90 - 110, based on ATHOS model results.
- Examine 100% of hot leg tubesheet (TSH) in SG 11 and SG 12 using RC technique.
- Examine ~1000 tubes each at the cold leg tubesheet (TSC) in SG 11 and SG 12 using RC. These tubes were selected in various areas of the steam generator.
- Examine ~110 tubes each in SG 11 and SG12 from 07C-07H using RC. These tubes were selected in the row 1 and 2 short radius U-Bend region.
- Examine ~40 previous wear indications at various locations in SG 11 and SG12 using the RC technique.

Multiple expansions were performed in both steam generators due to various indications detected. See Table 1 for actual scope of examinations, expansion description, and examination extents.

The examination resulted in 52 tubes being plugged in SG11, and 104 tubes being plugged in SG 12.

### 2.0 Examination Discussion

The examination plan was developed based upon findings associated with previous eddy current examinations performed in Units 1, 2, and 3, and requirements set forth in 73TI-9RC01. The 100% bobbin coil examinations were performed for general screening purposes, overall detection and to satisfy Technical Specifications. RC examinations were performed in the arc region of the steam generators in search of axial cracking similar to that found in the arc region in previous outages. The RC examinations on tubing between columns 40-150 and rows 90-110 were performed to determine if axial cracking was occurring outside the defined arc region. RC examinations at the hot leg tubesheet location were performed in search of circumferential indications similar to those found previously in Unit 1.



The RC examinations performed at the cold leg tubesheet were in response to Mixed Mode Indications (MMI) found during the U2R5 outage. RC examinations in rows 1 and 2 from 07H-07C were performed in search of axial cracking in the short radius U-Bend region. RC examinations of prior hot leg wear calls were performed to aid in determining if axial cracking had occurred at wear locations.

An expansion criteria was developed prior to performance of examinations and was as follows:

**Axial Indications:**

- Five (5) tube buffer zone (all directions)
- RC of any bobbin indications that exceed PVNGS plugging criteria.
- RC of all bobbin I codes including ADR's (absolute drift).

**Circumferential Indications:**

- Expand to 100% of cold leg tubesheet if (1) SCI is detected in cold leg sample.

The exam description, the extent examined and number of tubes analyzed are identified in Table 1. Appendix B contains maps of the scope of inspection including expansions of the tubes analyzed using bobbin coil and RC.

**TABLE 1**  
**EXAMINATION SUMMARY**

SCOPE DESCRIPTION		SG 11		SG 12	
Exam Description	Extents	Analyzed	Scope	Analyzed	Scope
FULL LENGTH BOBBIN	TEC-TEH	10,843	10,843	10,710	10,710
TUBE SHEET RC	TSH-TSH	10,843	10,843	10,710	10,710
U-BEND ARC RC	07H-2nd VS	2572	2572	2547	2547
RANDOM ARC RC	07H-2nd VS	199	199	201	201
LOW ROW U-BEND RC	07C-07H	106	106	123	123
TUBE SHEET RC	TSC-TSC	1059	1059	1089	1089
RC PREVIOUS BOBBIN WEAR	VARIOUS	40	40	37	37
EXPANSION 1-SPECIAL INTEREST RPC / PID	VARIOUS	163	163	163	163
EXPANSION 2 RC PREVIOUS WEAR ROW >150	VARIOUS	1	1	1	1



**TABLE 1**  
**EXAMINATION SUMMARY**

SCOPE DESCRIPTION		SG 11		SG 12	
Exam Description	Extents	Analyzed	Scope	Analyzed	Scope
EXPANSION 3 MRPC CIRC SIZING	TSH-TSH	4	4	15	15
EXPANSION 4 RC SAI/MAI BOUNDING	07H-2ND VS	0	0	72	72
EXPANSION 5 RC HISTORICAL SPECIAL INTEREST	VARIOUS	41	41	33	33
EXPANSION 6 RC 20% SPECIAL INTEREST ROW >150	07H-2ND VS	0	0	4	4

**TABLE 1**  
**EXPANSION DESCRIPTION (continued)**

- EXPANSION 1      This expansion is utilized to track the special interest RC performed to quantify or evaluate bobbin or previously called indications. This includes NQI, ADR, DSI, DTI, PLP, and other areas. PID (positive identification) were run to verify that tube identification is correct.
- EXPANSION 2      RC examinations of tubes in rows 150 or higher with previous wear calls.
- EXPANSION 3      RC of various circumferential indications using calibration standard with multiple known% through wall circumferential EDM notches.
- EXPANSION 4      RC examinations bounding SAI/MAI's to aid in determinations of additional SAI/MAI's in general area. This expansion was triggered by SAI/MAI's found in original RC scope.
- EXPANSION 5      RC examination of historical I-codes that were INR or INF this outage.
- EXPANSION 6      RC 20% sample of top hat region (>row 150). This expansion triggered by SAI/MAI's found in this region. 20% sample includes tubes from expansion 4.



### 3.0 Examination Results

#### Steam Generator 11

The eddy current examinations (bobbin coil and RC) revealed 5 defective tubes and 158 degraded tubes and was classified in category C-2. RC examinations at the hot leg tubesheet region revealed 20 tubes containing circumferential indications and 9 tubes containing axial indications. RC examinations (including expansions) elsewhere in the steam generator revealed 8 tubes containing axial indications and 40 tubes containing volumetric indications. RC examinations performed at the cold leg tubesheet revealed 0 mixed mode indications. Analysis of bobbin and RC data revealed 2 tubes with loose part indications. One of the tubes with loose parts exhibited associated wear.

#### Steam Generator 12

The eddy current examinations (bobbin coil and RC) revealed 3 defective tubes and 216 degraded tubes and was classified in category C-2. RC examinations at the hot leg tubesheet region revealed 64 tubes containing circumferential indications and 2 tubes containing axial indications. RC examinations (including expansions) elsewhere in the steam generator revealed 29 tubes containing axial indications and 61 tubes containing volumetric indications. RC examinations performed at the cold leg tubesheet revealed 0 mixed mode indications. Analysis of bobbin and RC data revealed 17 tubes with loose part indications. A loose part was removed which was associated with 14 of the 17 tubes. 3 of the tubes with loose part indications exhibited associated wear.

A complete summary of the bobbin and RPC examination results are located in Table 2 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 D contains summary data sheets for tubes classified as possible loose parts.



#### 4.0 Examination Techniques and Equipment

The eddy current examination was performed by Rockridge Technologies using Zetec MIZ 30 digital data acquisition and analysis systems. The following frequencies were used for the tube examination(s):

Bobbin Coil	RC	
500 KHZ	400 KHZ	
300 KHZ	300 KHZ	NOTE: These frequencies were utilized in both differential and absolute modes.
100 KHZ	100 KHZ	
20 KHZ	20 KHZ	

All tubing was examined with Zetec manufactured bobbin coil and RC style probes, either 0.610, 0.600, 0.590 or 0.580 inch diameter. Multiple configurations of 3 coil RC probes and Plus Point RC probes were used for the detection and characterization of axial and circumferential indications. Data acquisition was facilitated by using Zetec SM-22's with quad guide tubes and dual guide tubes in the hot leg and cold leg respectively of steam generators 11 and 12. A BWNT Rodger with a quad guide tube was used in the hot legs of steam generators 11 and 12.

Fiber optic cable was used from the MIZ 30 containment location to the data acquisition room located at the PVNGS North Annex. Primary and Secondary analysis were performed remotely utilizing T-1 line technology. Primary Analysts were located in Benicia California and Lynchburg Virginia. Secondary Analysts were located in San Clemente California. The Primary and Secondary Resolution Analysts were located at PVNGS in the North Annex. Rockridge Technologies provided the data acquisition and primary data analysis. Anatec International, Inc. provided the secondary data analysis.

Each Level IIA individual from Rockridge Technologies and Anatec International, Inc. who performed data analysis was required to complete and pass a PVNGS site specific Eddy Current Data Analysis Course as well as an associated performance examination with at least a 80% proficiency within the last year (12 months). All individuals performing data analysis were also required to have QDA (Qualified Data Analyst) certification.



**TABLE 2**  
**INDICATION SUMMARY**

INDICATION CATEGORY	STEAM GENERATOR 11	STEAM GENERATOR 12
Cold Leg Corner Eggcrate Wear		
0% to 19%	6	2
20% to 29%	2	0
30% to 39%	0	0
40% to 100%	0	0
Eggcrate Wear		
0% to 19%	259	441
20% to 29%	31	48
30% to 39%	2	10
40% to 100%	1	1
Batwing Wear		
0% to 19%	608	693
20% to 29%	50	84
30% to 39%	4	3
40% to 100%	1	0
Vertical Strap Wear		
0% to 19%	272	273
20% to 29%	50	53
30% to 39%	20	17
40% to 100%	3	2
Possible Loose Parts		
PLI	1	3
PLP	1	14 (loose part removed)
Axial Indications		
TEH/TSH	9	4
07H-2nd VS	8	27
Circumferential Indications		
TSH	20	64
Mixed Mode Indications		
MMI	0	0
Volumetric Indications		
SVI/MVI	40	61

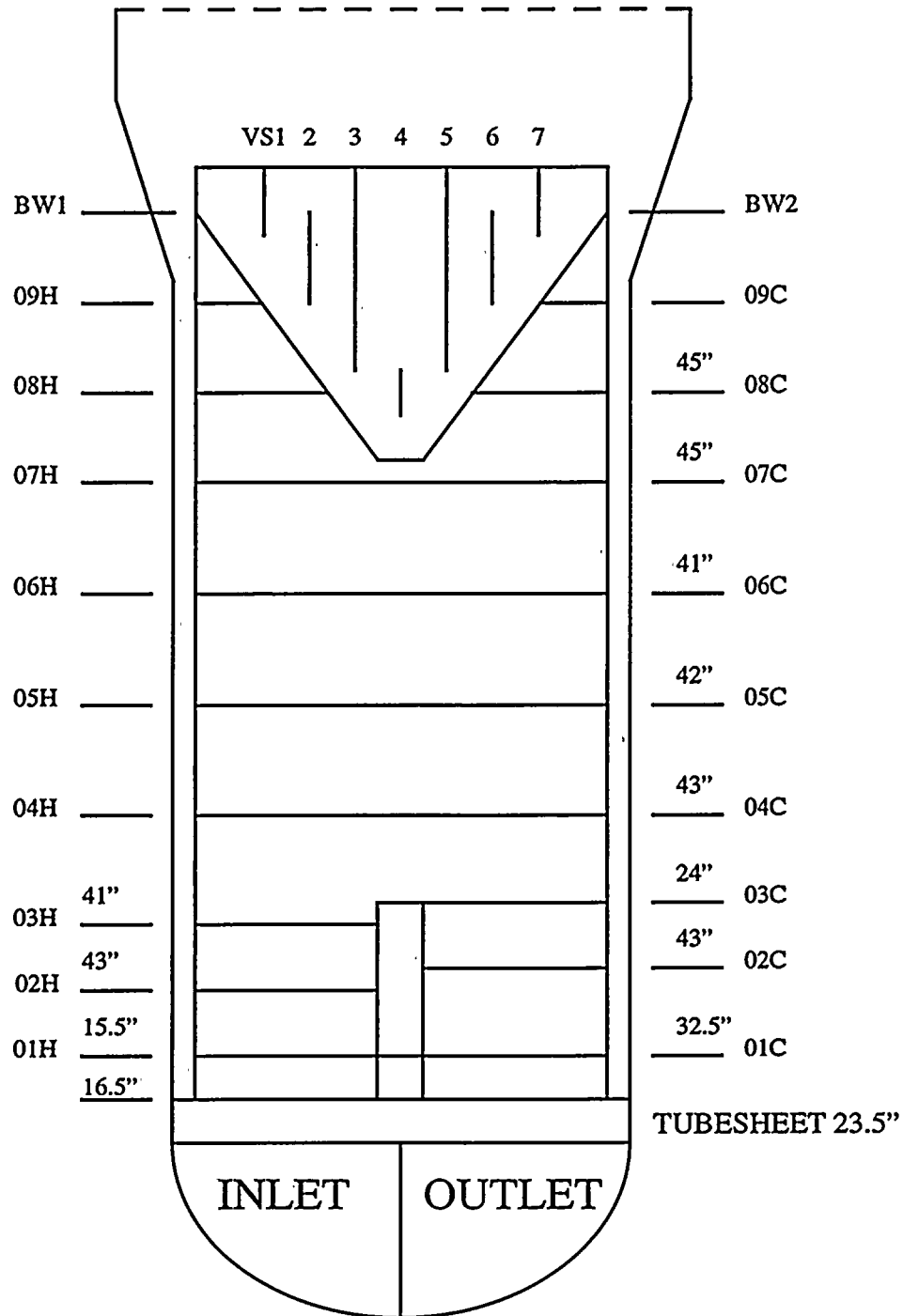


APPENDIX A

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  
CENTER LINES

CORNER EGGCRATE IS  
COLD LEG SIDE, 7 ROWS  
UP, 22 LINES IN, 02C THRU  
04C SUPPORTS



APPENDIX B

EXAMINATION PLAN



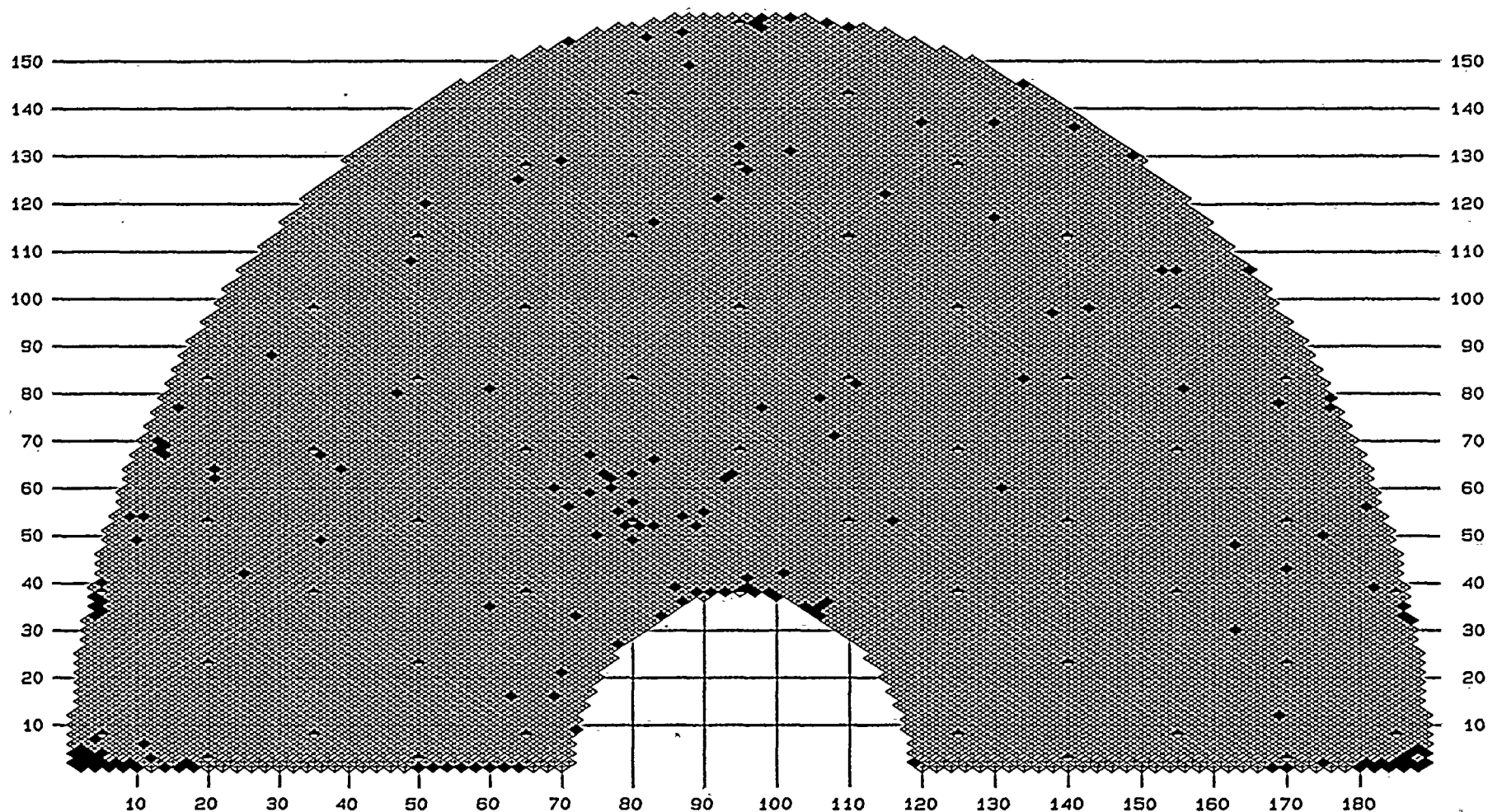
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STEAM GENERATOR: 11  
ORIGINAL SCOPE/ANALYZED F/L BOBBIN

DATE: 02/23/97  
TIME: 14: 21: 54

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, OTHERS STAYS

PLUGGED 169 ♦ TEC-TEH 10675 X TEC-07H 62 / TEC-07C 106 +





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

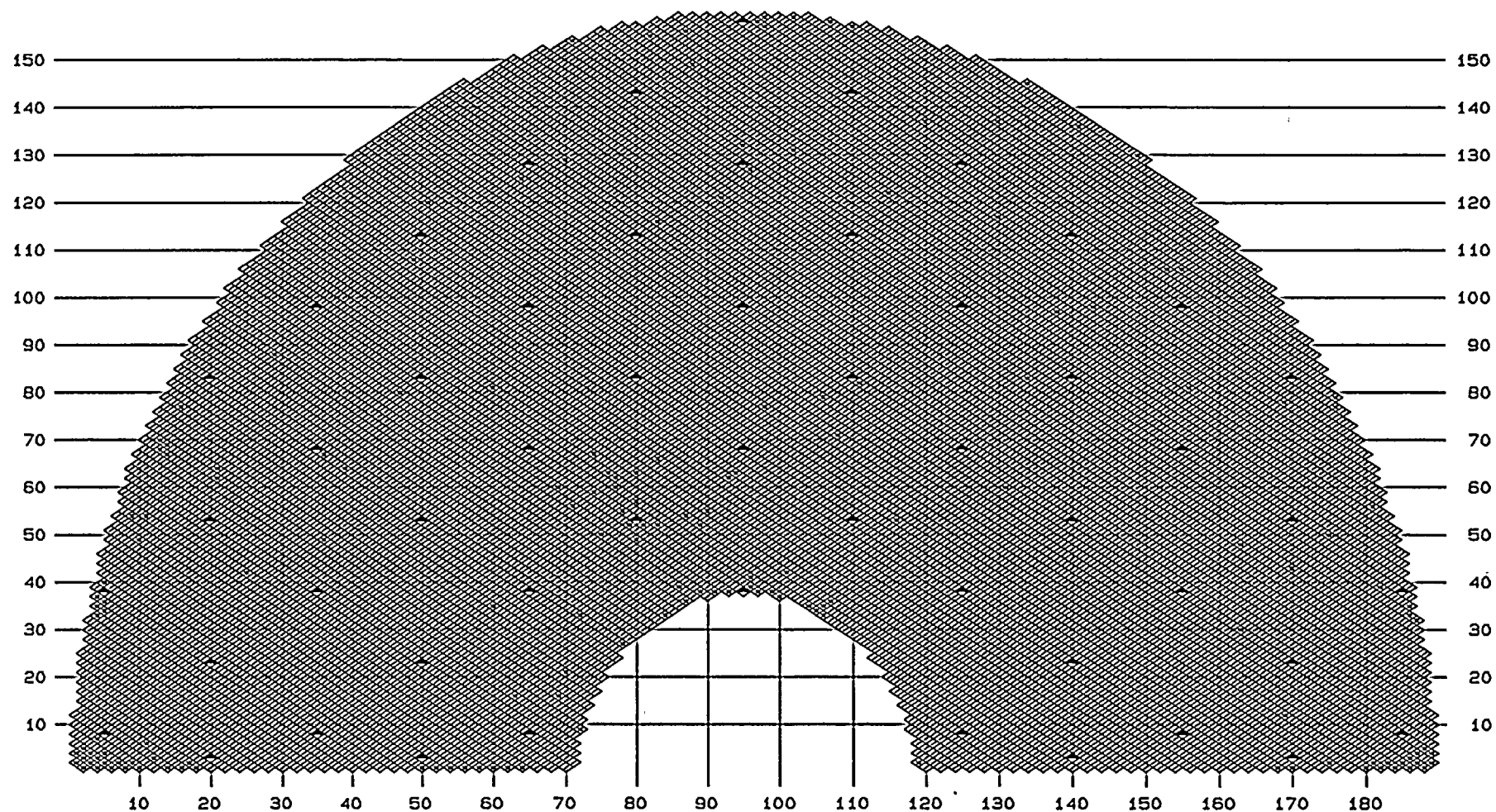
STEAM GENERATOR: 11  
ORIGINAL SCOPE/ANALYZED TSH-TSH RPC

DATE: 10/19/96  
TIME: 08:00:17

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 35, 36, 37, 38, 39, 40, 41, 42, 43, 60

STAYS ▲

PLUGGED 169 X TSH-TSH 10943 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

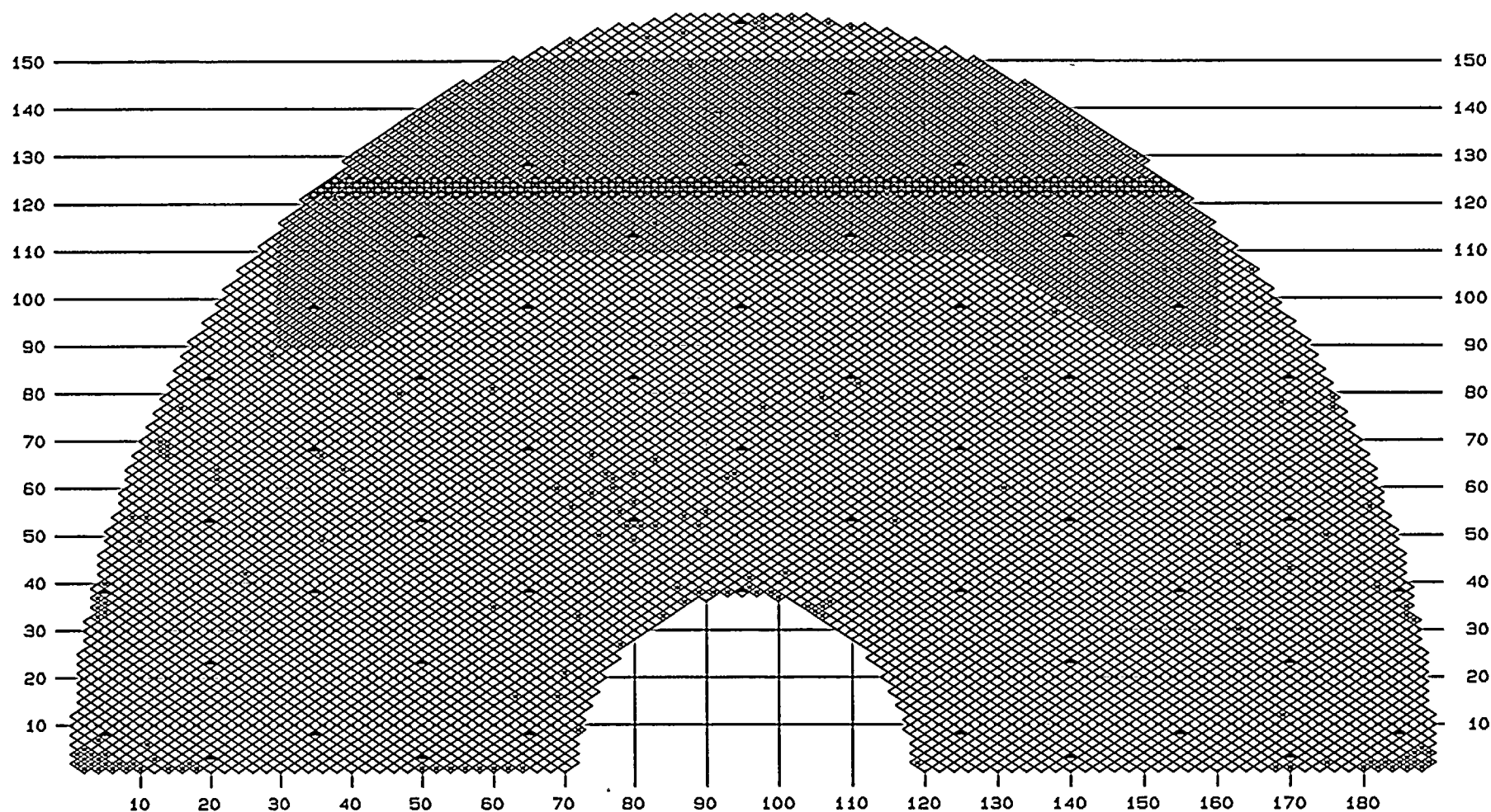
STEAM GENERATOR: 11  
ORIGINAL SCOPE/ANALYZED UBENDS ARC RPC

DATE: 10/19/96  
TIME: 08: 27: 35

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 44, 45, 46, 47, 48, 49, 50, 51

STAYS ▲

PLUGGED      169 X    06H-VS5      1 ▲    07H-VS5      1 #    07H-VS3      2335 /    06H-VS3      1 +    07H-VS2      236 O





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11  
ORIGINAL SCOPE/ANALYZED RANDOM UBEND LINE RPC

DATE: 10/19/96  
TIME: 09:24:50

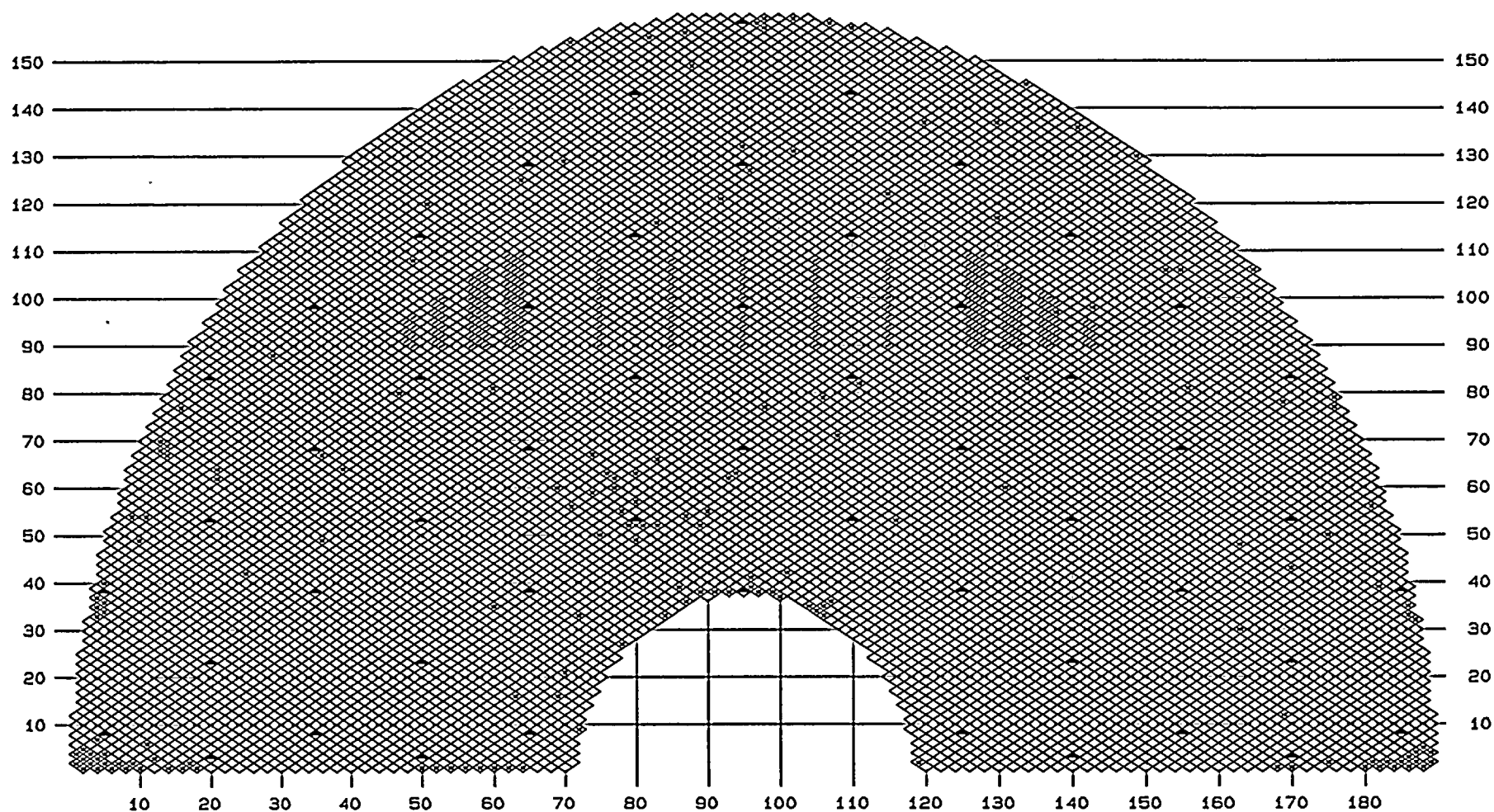
CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 52, 53

STAYS

PLUGGED

169 x 07H-VS3

199 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

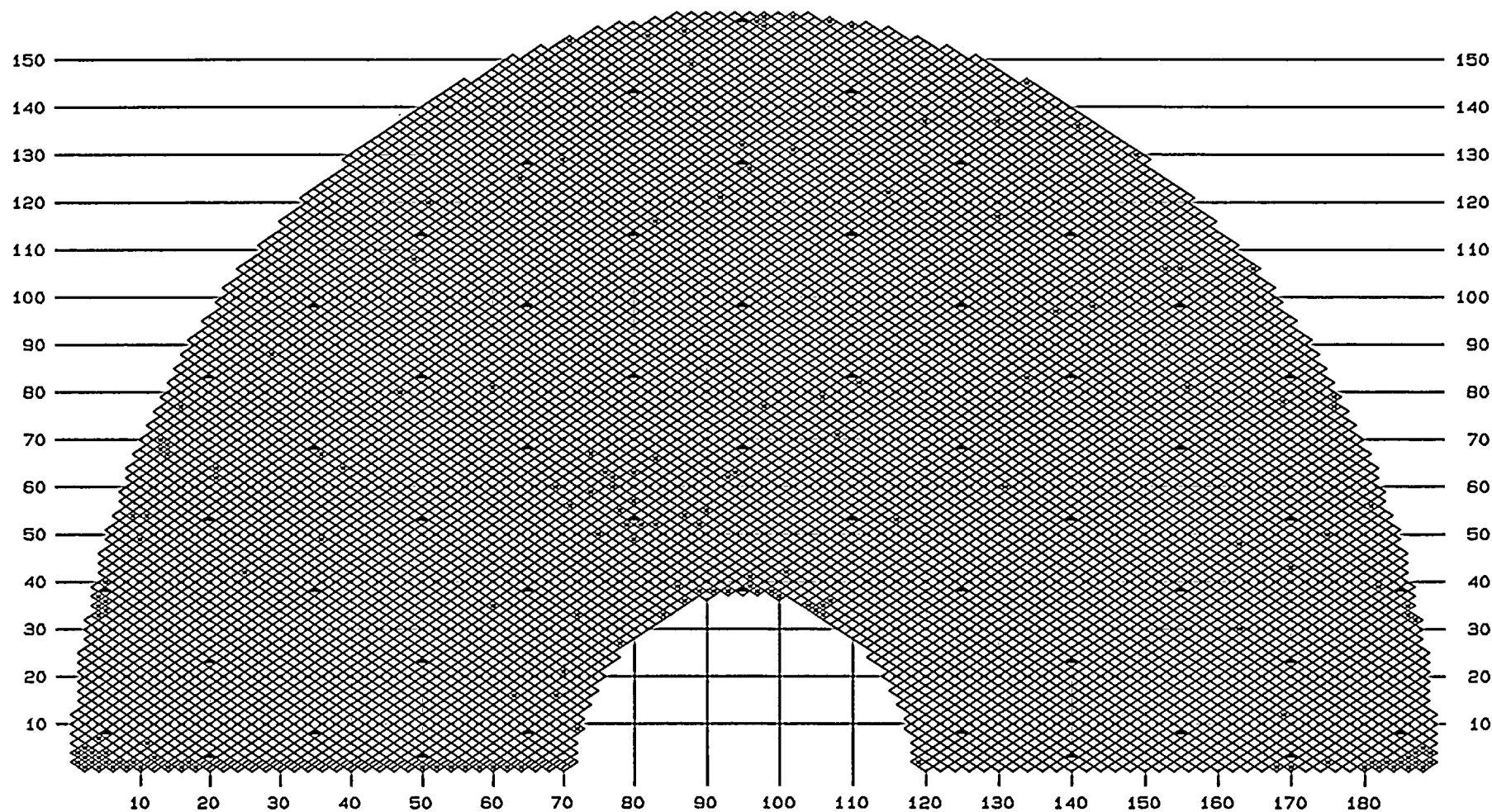
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ORIGINAL SCOPE/ANALYZED UBEND ROWS 1-2 RPC

DATE: 10/19/96  
TIME: 07: 41: 40

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 33

STAYS

PLUGGED 169 x 07C-07H 49 /





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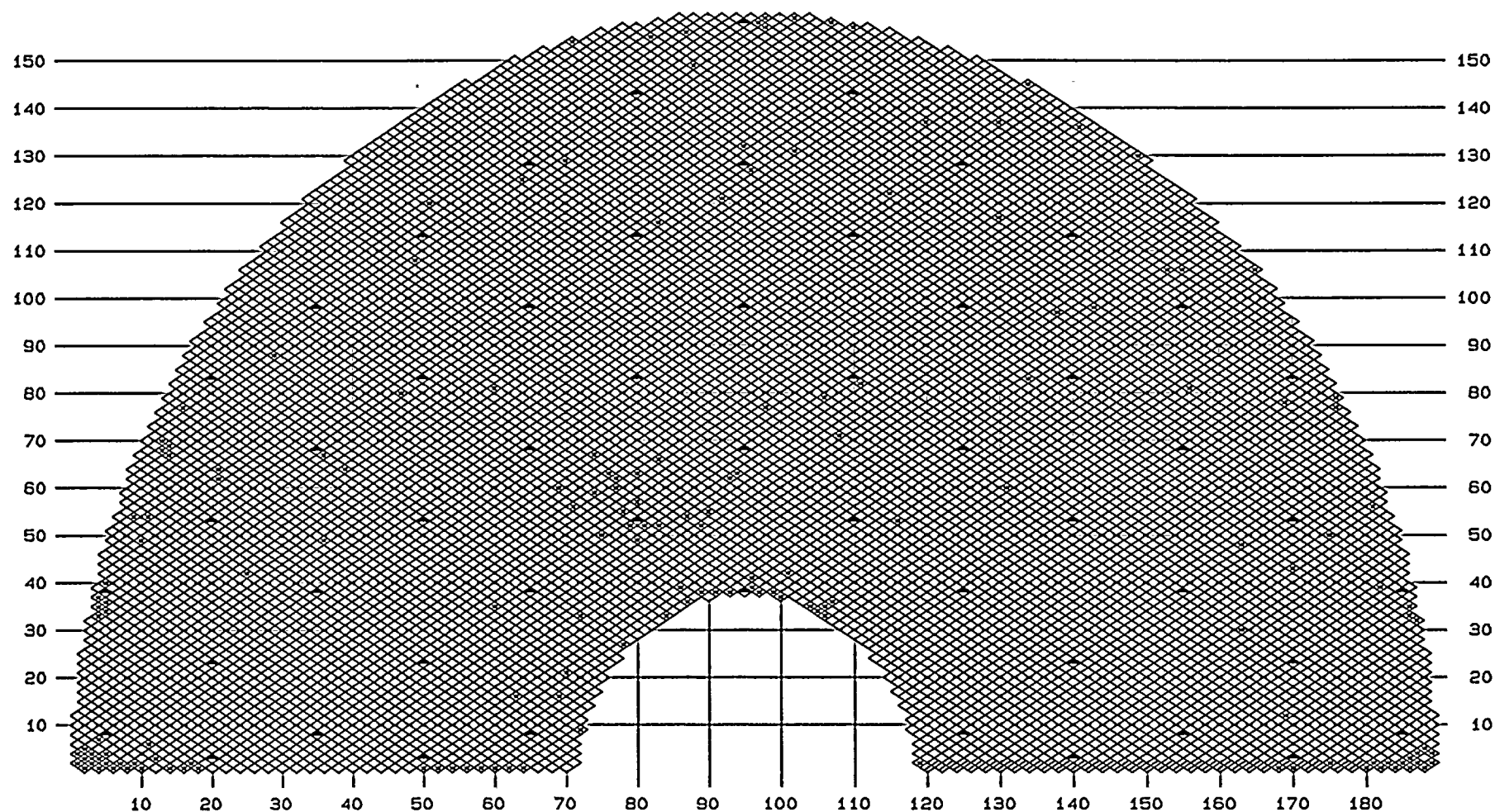
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ORIGINAL SCOPE/ANALYZED UBEND ROWS 1-2 RPC

DATE: 10/19/96  
TIME: 07: 48: 14

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 34

STAYS      ▲

PLUGGED      169 X      07H-07C      57 /





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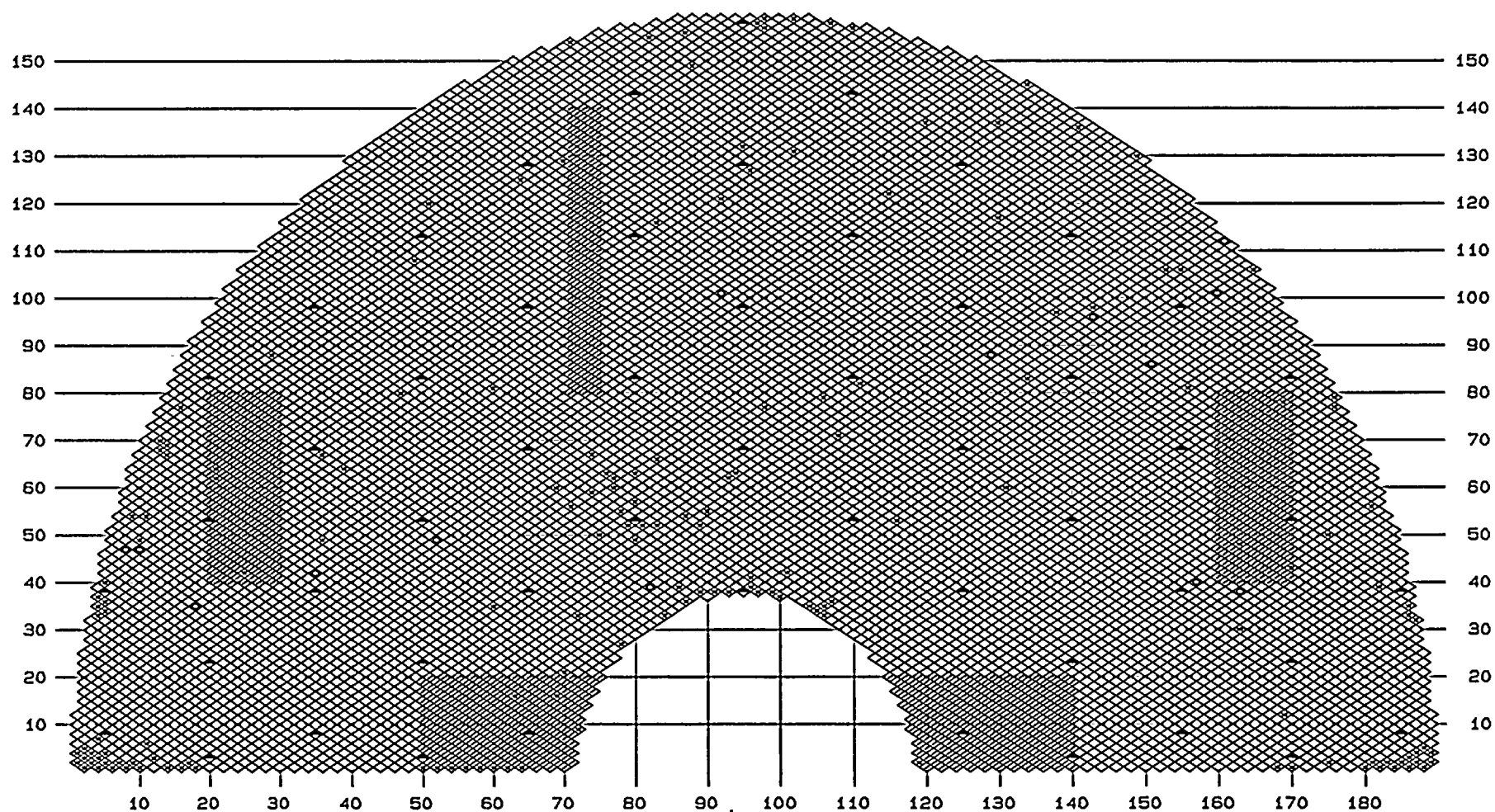
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ORIGINAL SCOPE/ANALYZED TSC RPC

DATE: 10/19/96  
TIME: 09:06:49

CRITERIA: TUBES TO BE EXAMINED IN GROUP(S) 61, 62, 63

STAYS ▲

PLUGGED 169 X TSC-TSC 1045 / TEC-TSC 14 O





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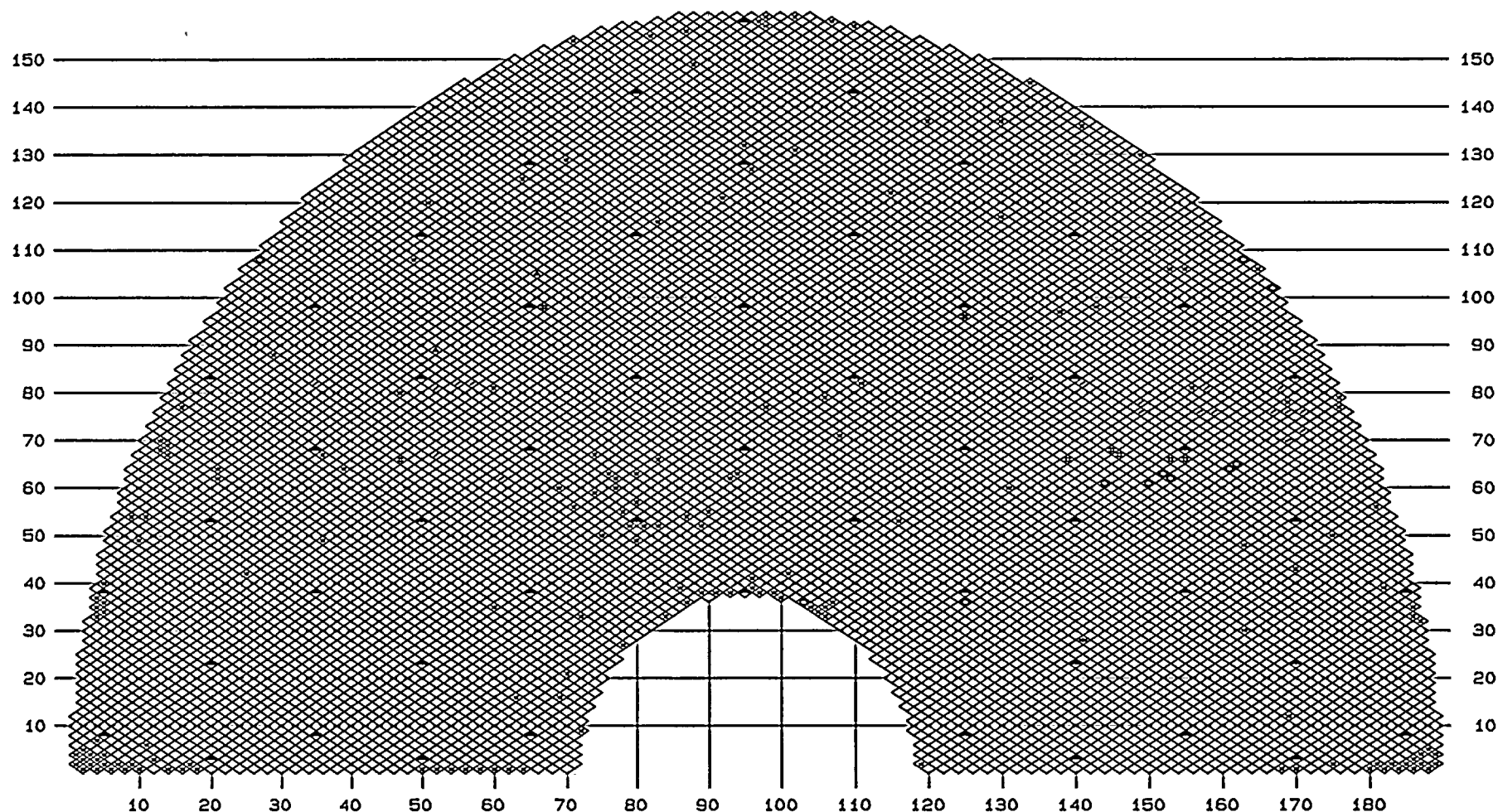
STEAM GENERATOR: 11  
ORIGINAL SCOPE/ANALYZED PREV. BOBBIN WEAR RPC

DATE: 10/19/96  
TIME: 09: 41: 23

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 54, 55, 57, 58, 59, 64, 65, 66

STAYS

PLUGGED 169 X VS3-VS3 18 / VS2-VS2 2 Δ BW1-BW1 11 ○ OBH-OBH 8 # 07H-07H 1 #





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EXP1: SCOPE/ANALYZED SPECIAL INTEREST RPC

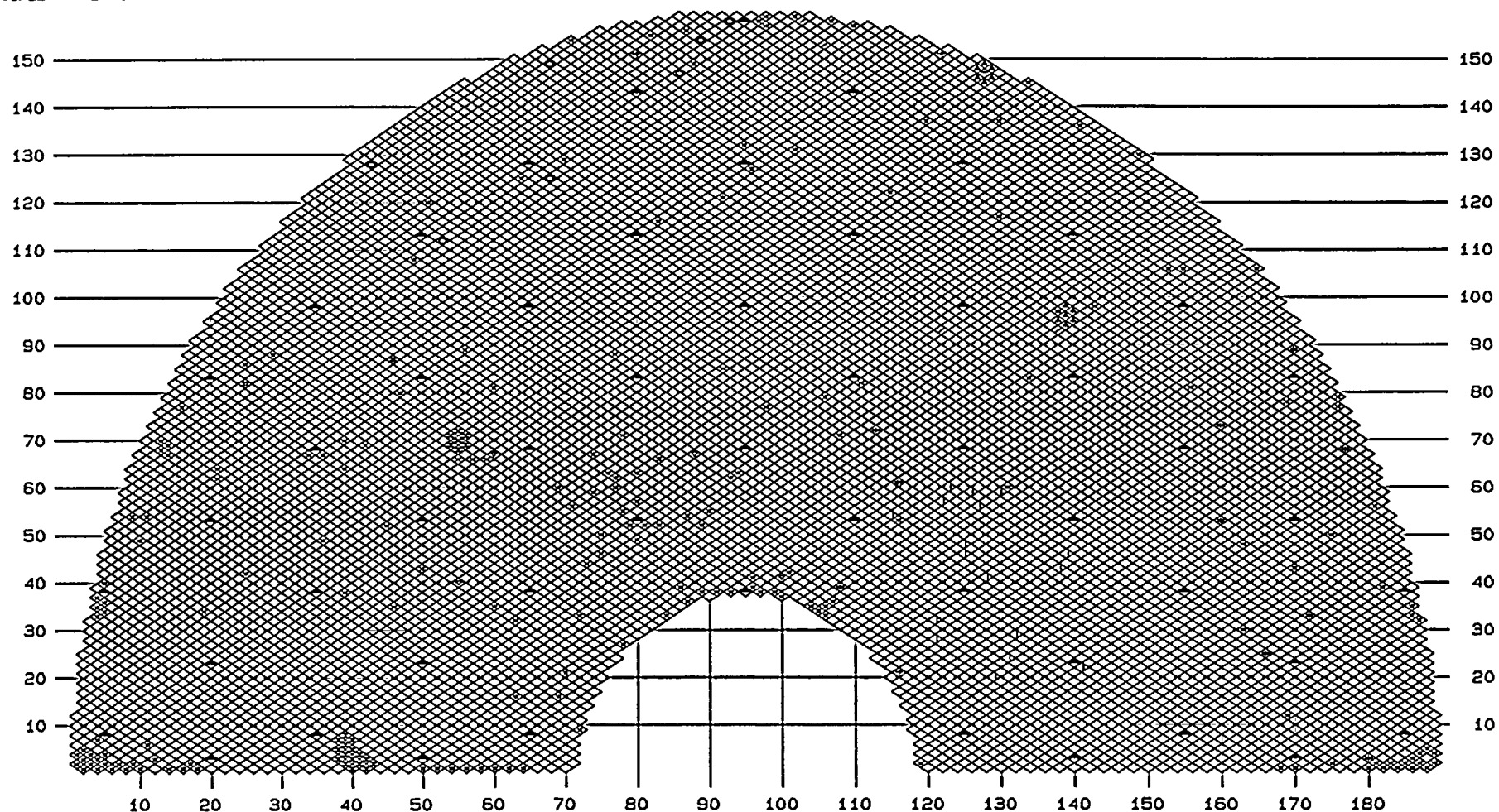
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TIME: 09: 57: 57

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 67, 68, 70, 71, 72, 75, 81, 82, 84, 85, 86, 92

STAYS ▲

PLUGGED	169 X	Group67	1 -	Group68	17 .1	Group70	7 O	Group71	4 /	Group72	0 \	Group75	12 Δ	Group81	4 ▽
Group92	23 *	Group82	0 □	Group84	19 X	Group85	2 #	Group86	10 #						

MULTIPLE 3 +





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

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EXP1: SCOPE/ANALYZED SPECIAL INTEREST RPC

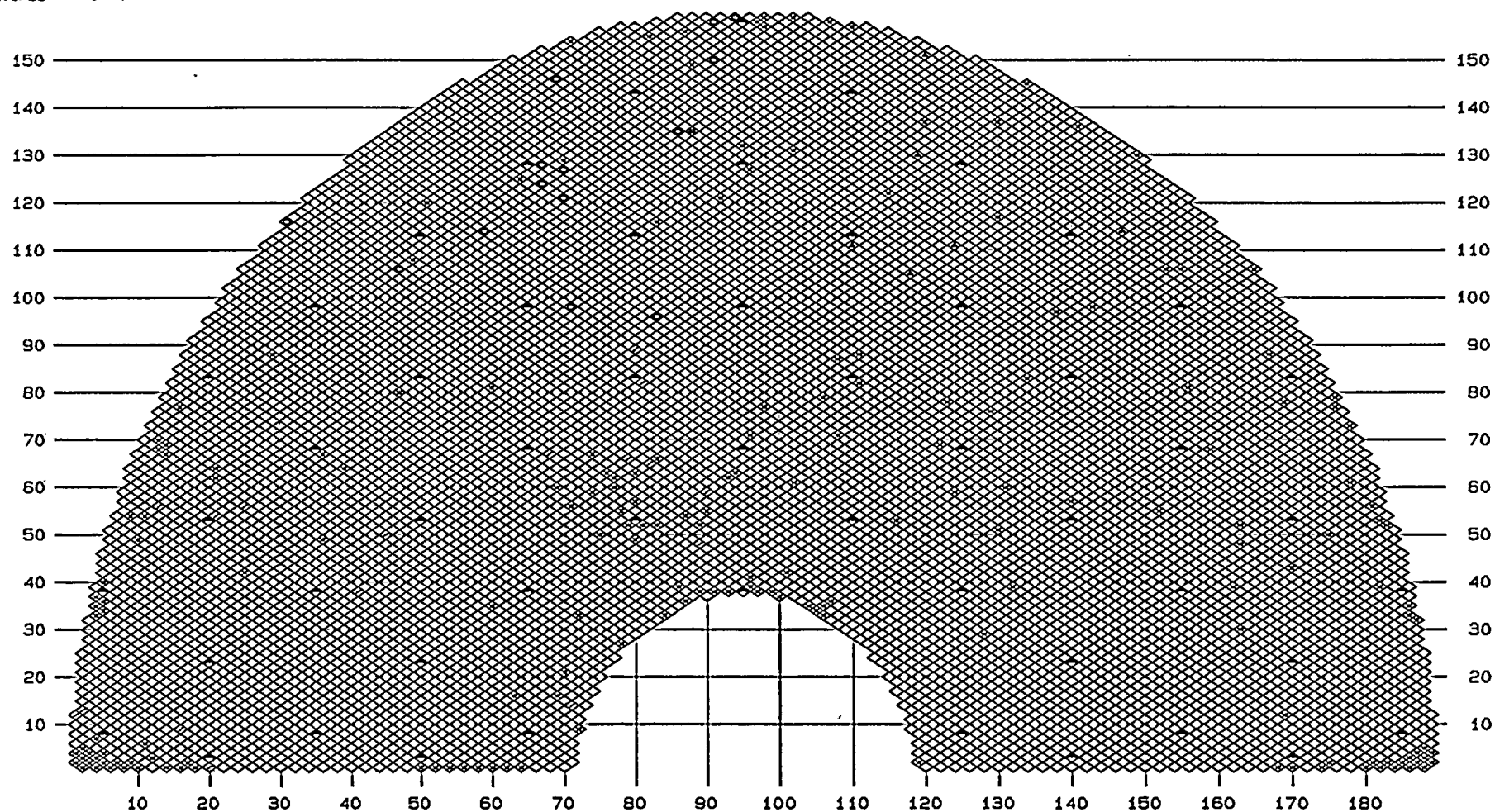
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COLD LEG - VARIOUS LENGTHS

STAYS

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MULTIPLE 0 +





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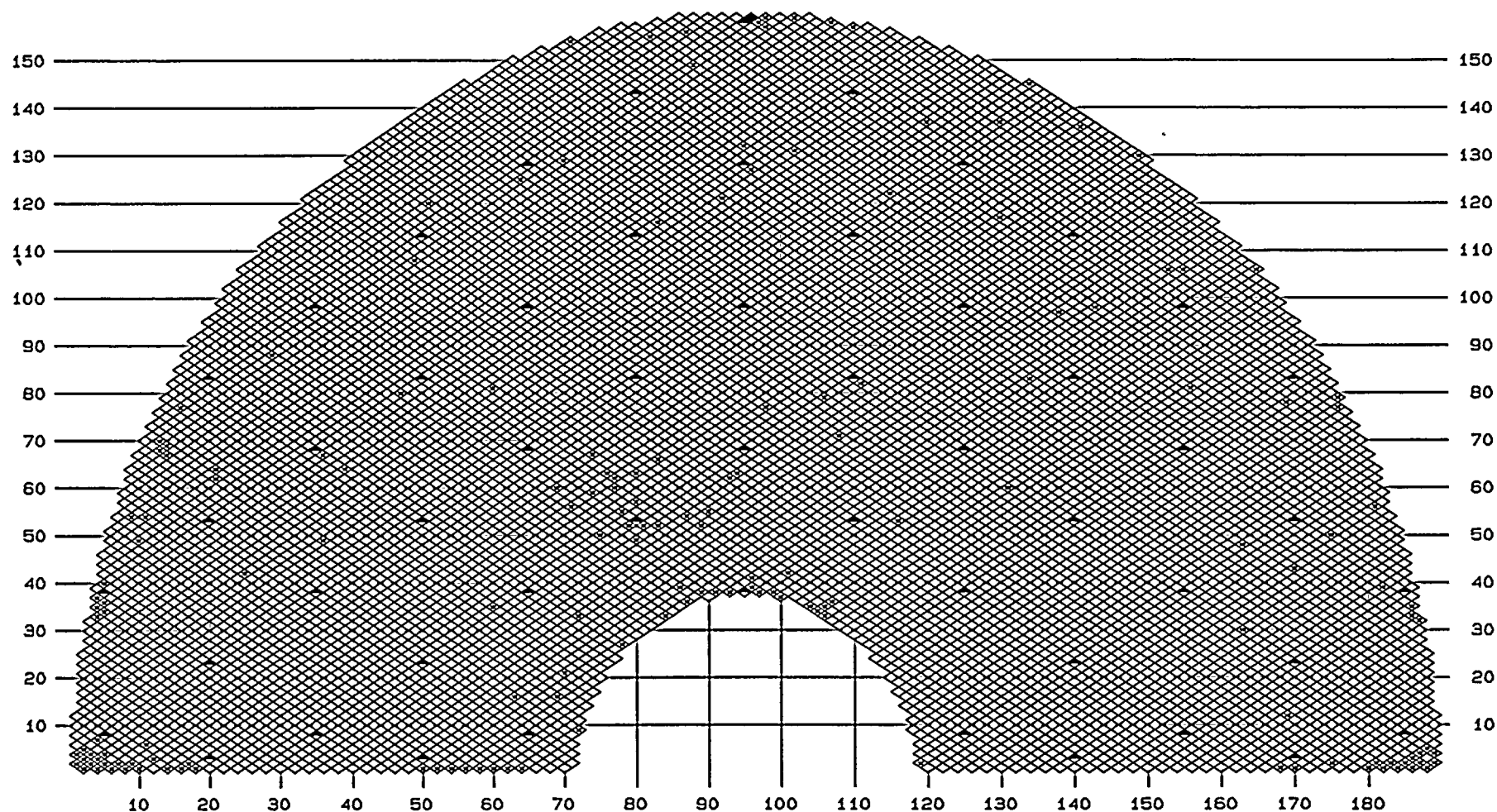
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DATE: 10/19/96  
TIME: 09:46:58

CRITERIA: TUBES TO BE EXAMINED IN GROUP(S) 56

STAYS      ▲

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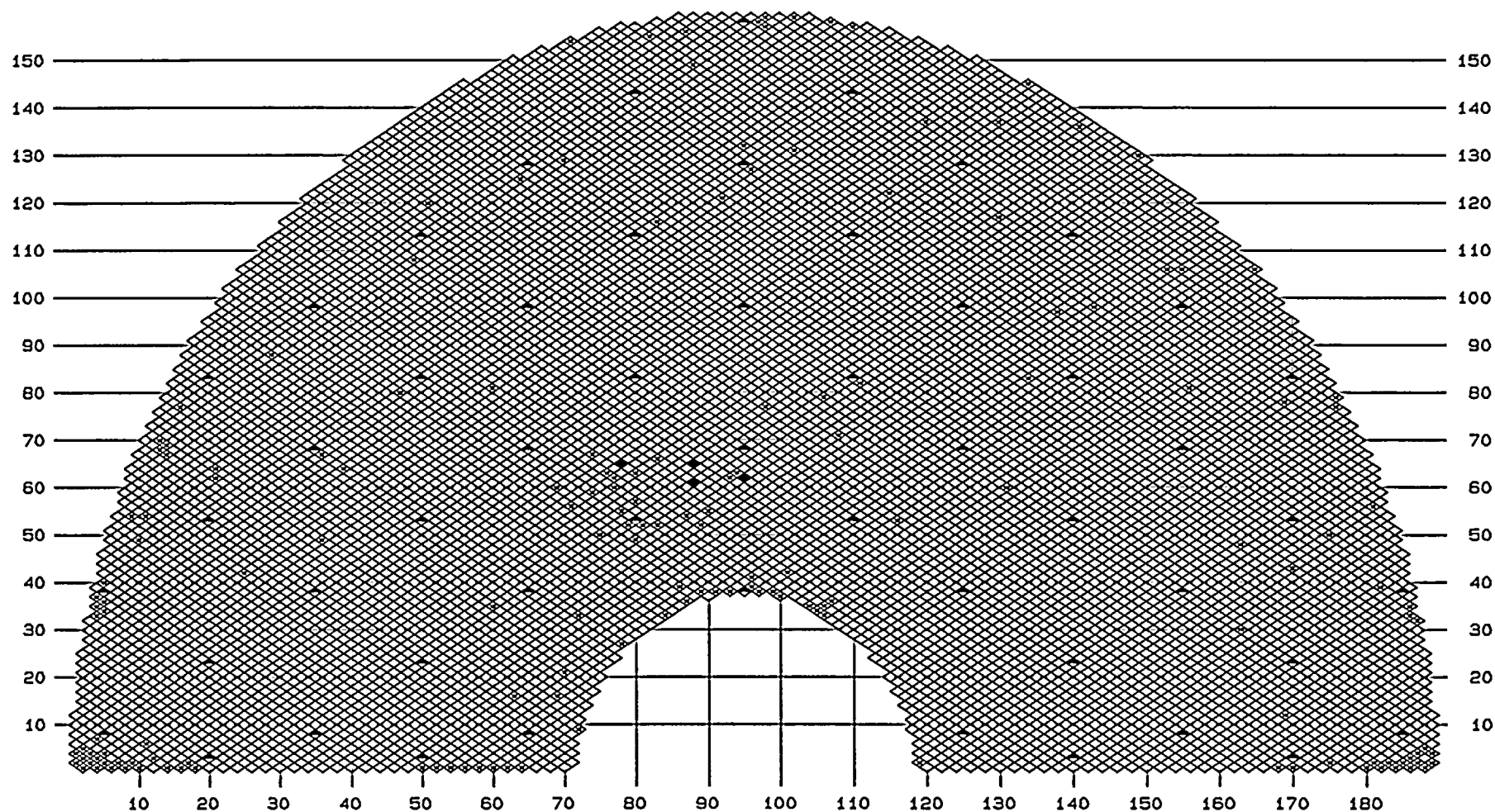
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EXP3: SCOPE/ANALYZED SPECIAL INTEREST RPC

DATE: 10/19/96  
TIME: 10:31:45

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 69

STAYS

PLUGGED 169 X TSH-TSH 4 ♦





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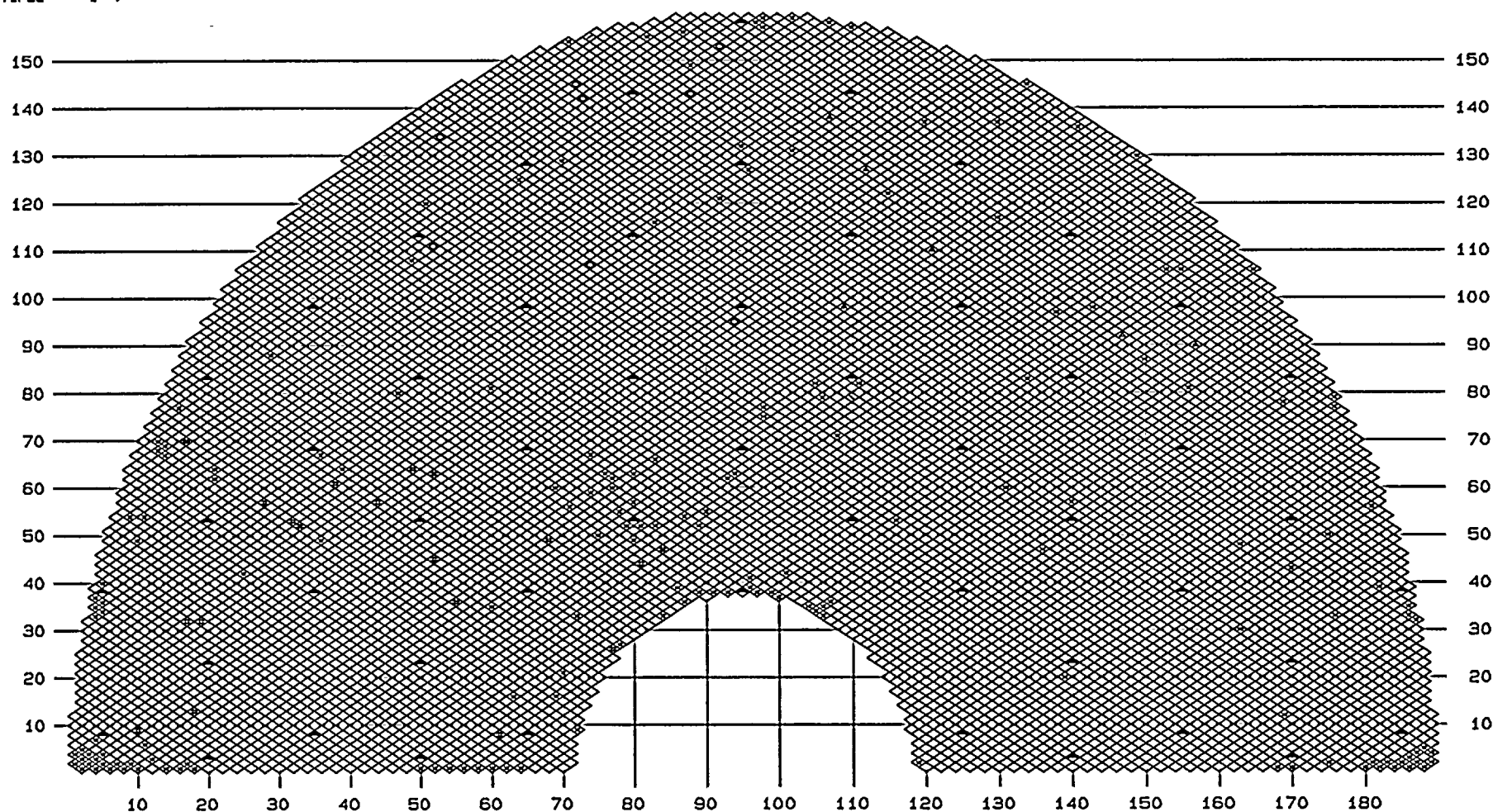
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CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 79, 80, 83, 89, 90, 91

STAYS

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MULTIPLE 1 /



ROCKRIDGE TECHNOLOGIES



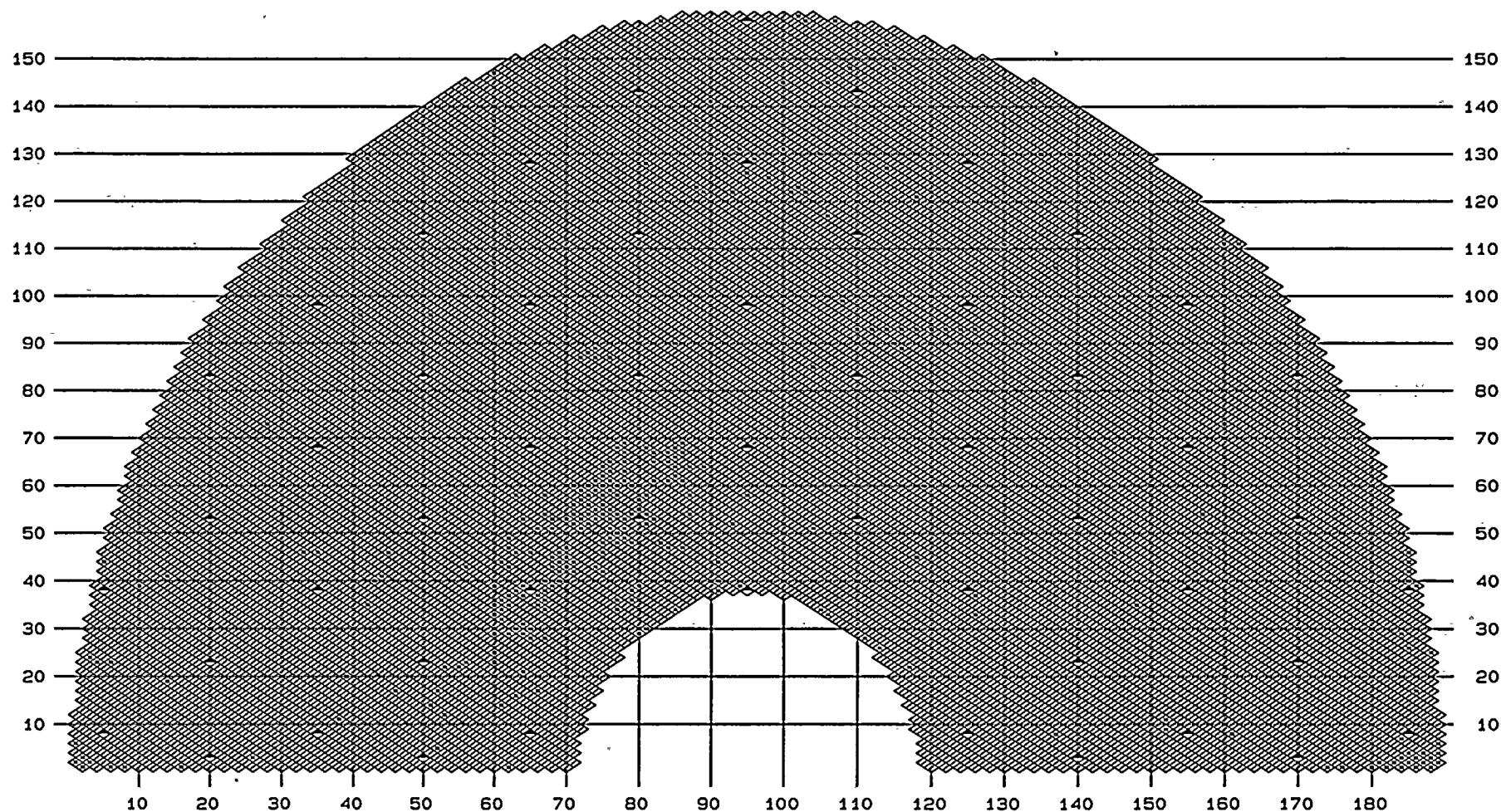
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STEAM GENERATOR: 12  
ORIGINAL SCOPE/ANALYZED F/L BOBBIN

DATE: 10/19/96  
TIME: 09: 12: 36

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, OTHERS STAYS

PLUGGED 302 X TEC-TEH 10526 / TEC-07H 61 / TEC-07C 123 /





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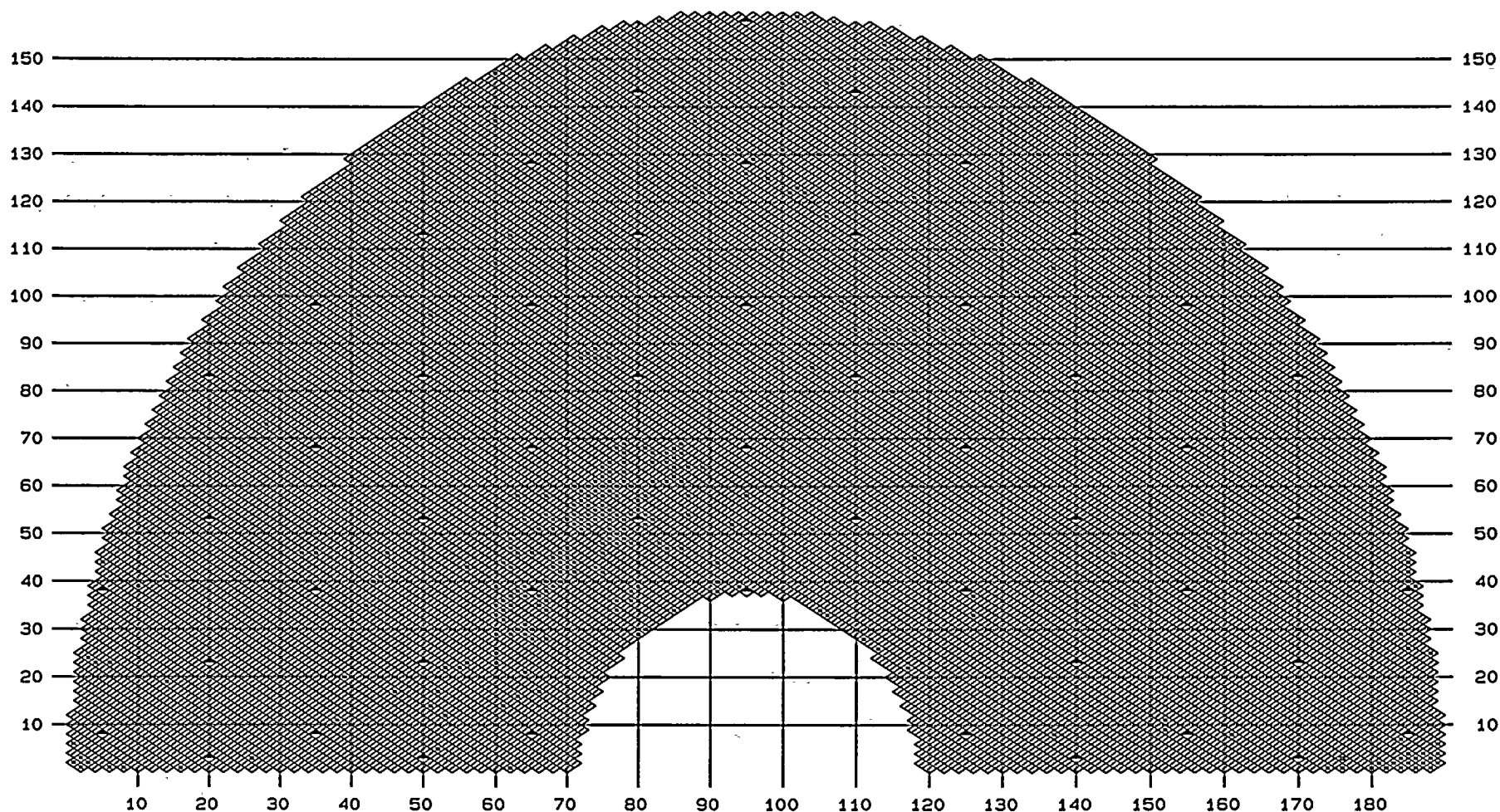
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DATE: 10/18/96  
TIME: 16:46:07

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STAYS ▲

PLUGGED 302 X TSH-01H 1 # TSH-TSH 10709 /



ROCKRIDGE TECHNOLOGIES



# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

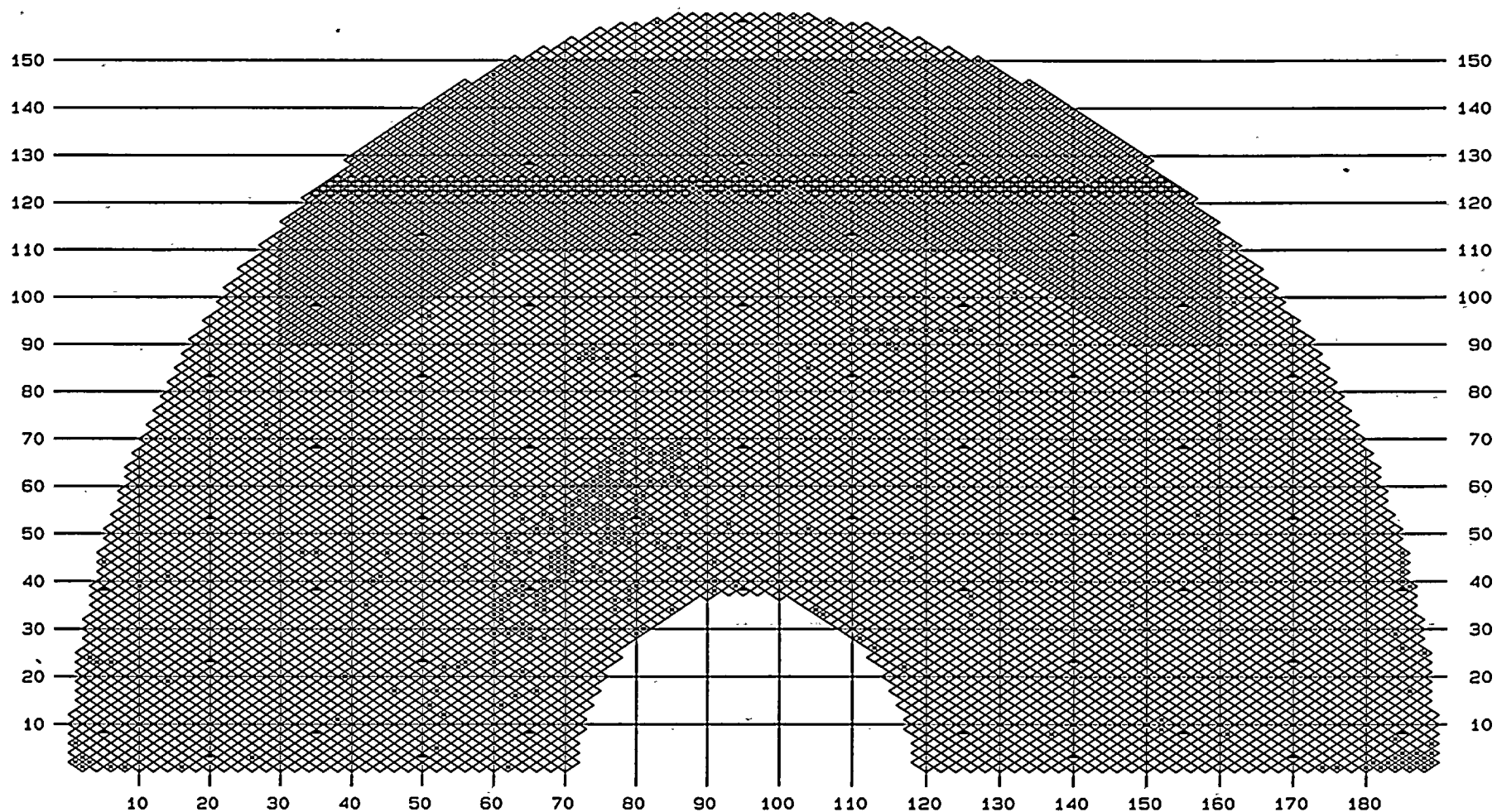
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DATE: 10/18/96  
TIME: 17: 08: 22

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 44, 45, 46, 47, 48, 49, 50, 51

STAYS

PLUGGED 302 X 07H-VS3 2325 / 07H-VS2 229 O 06H-VS2 1 H





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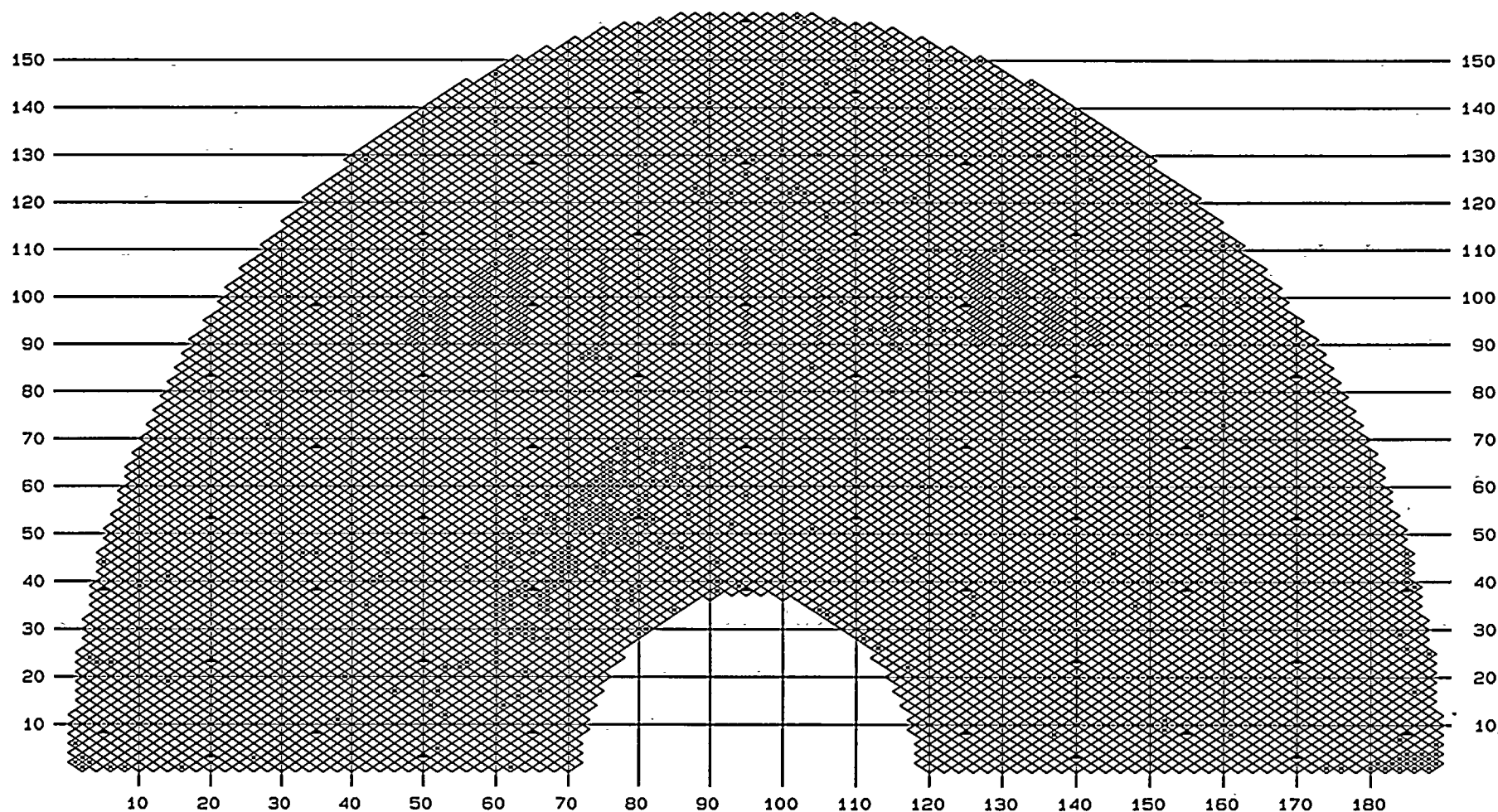
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DATE: 10/18/96  
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CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 52, 53, 65, 66

STAYS

PLUGGED 302 X 07H-VS3 201 /



ROCKRIDGE TECHNOLOGIES



# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

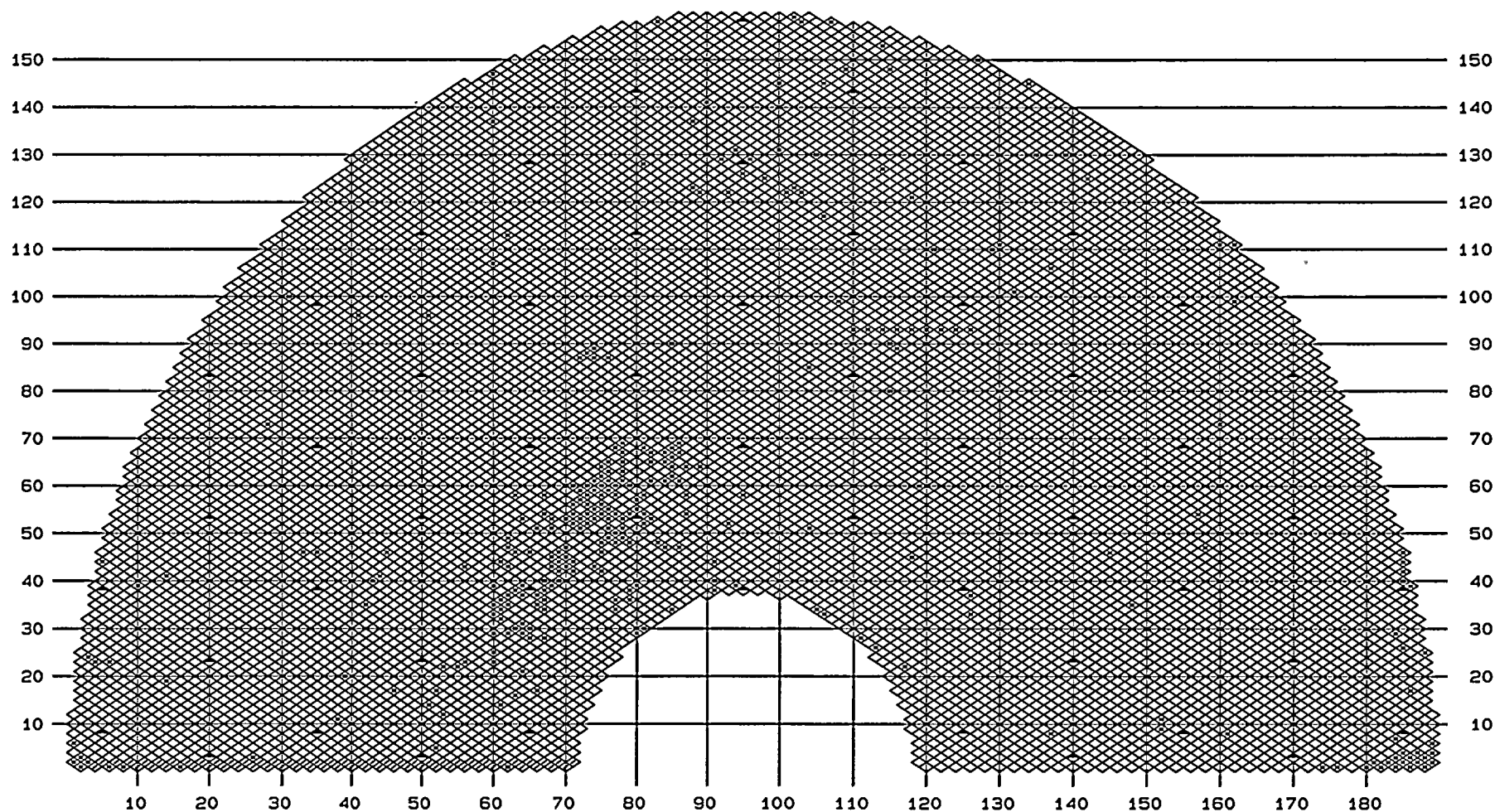
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ORIGINAL SCOPE/ANALYZED UBEND ROWS 1-2 RPC

DATE: 10/18/96  
TIME: 16:30:15

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 33 COLD LEG

STAYS ▲

PLUGGED 302 X 07C-07H 64 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

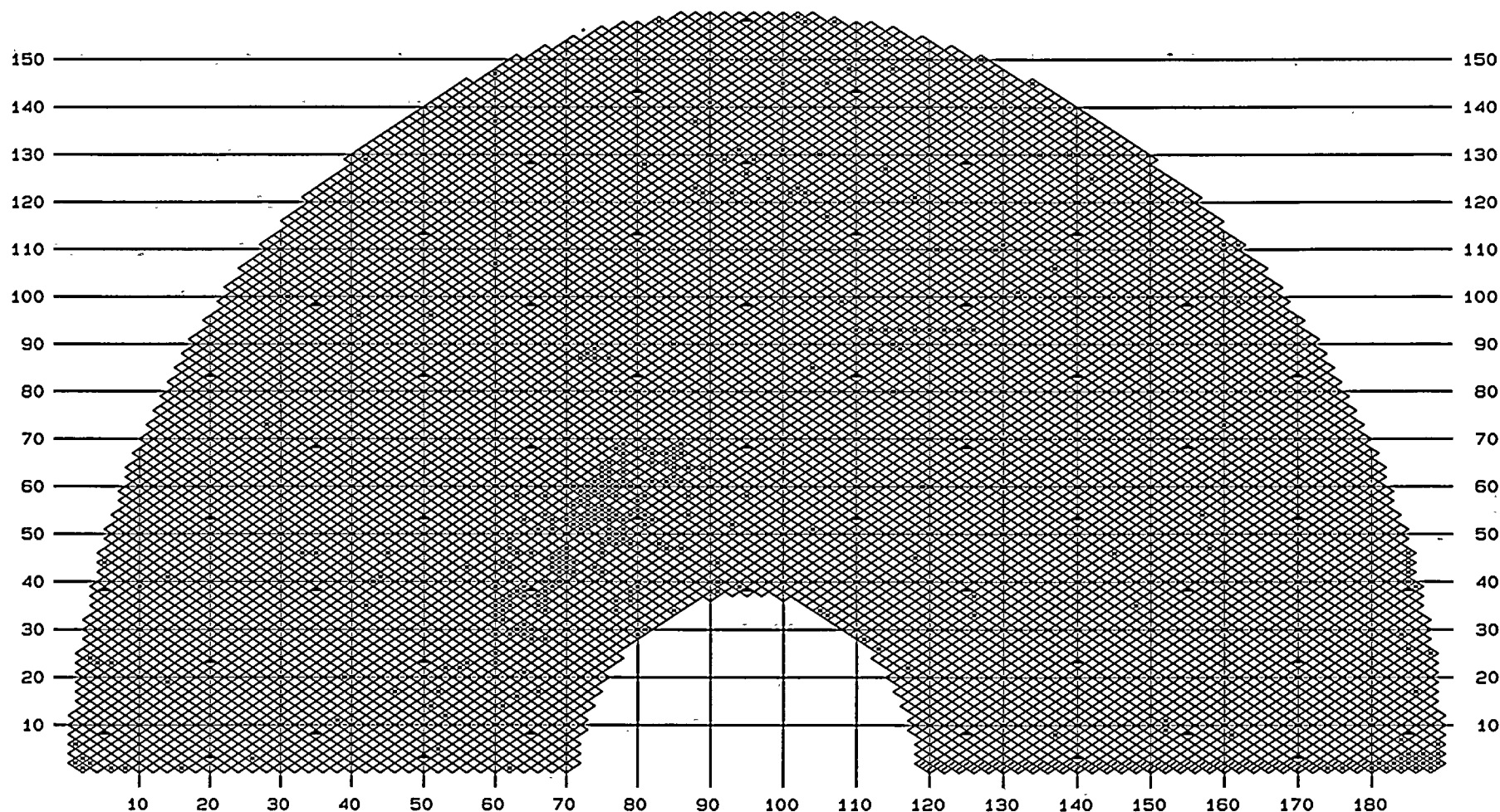
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STAYS ▲

PLUGGED 302 X 07H-07C 59 /



ROCKRIDGE TECHNOLOGIES



# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

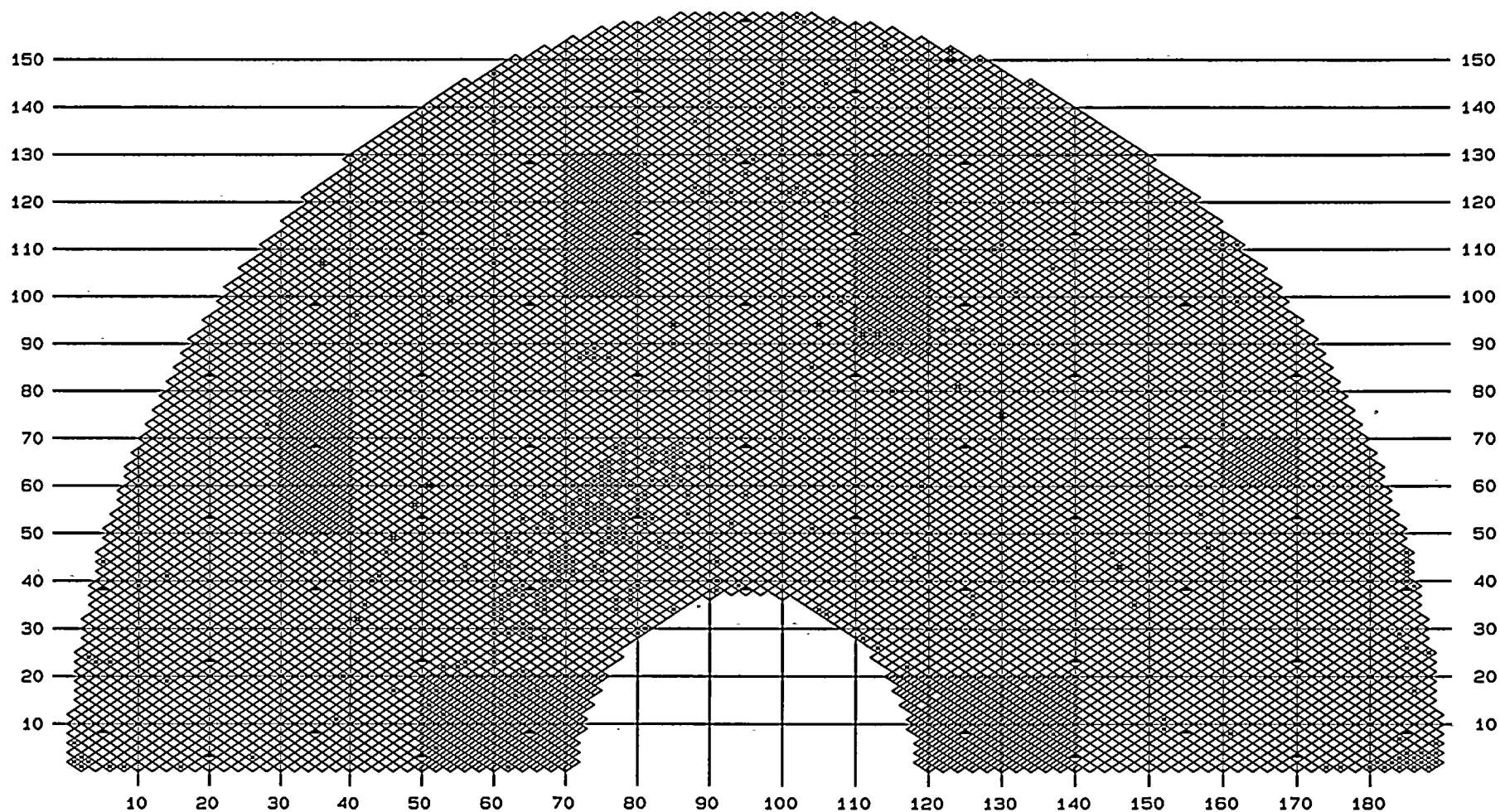
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ORIGINAL SCOPE/ANALYZED TSC RPC

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TIME: 17: 15: 20

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STAYS ▲

PLUGGED 302 X TEC-TSC 15 # TSC-TSC 1064 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

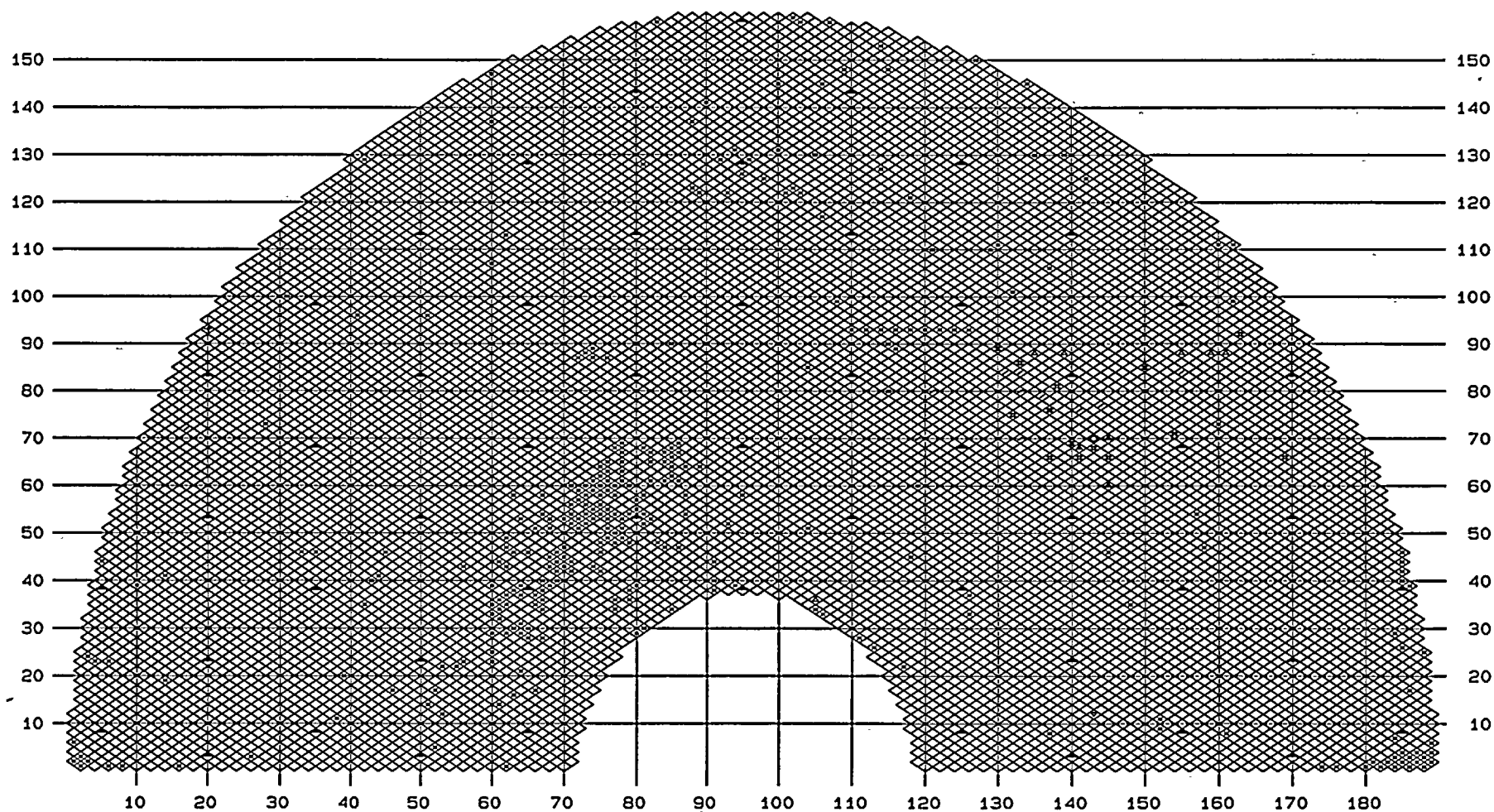
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ORIGINAL SCOPE/ANALYZED PREV. BOBBIN WEAR RPC

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TIME: 17:35:33

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 54, 55, 57, 58, 59, 67

STAYS

PLUGGED	302 X	VS3-VS3	11 /	8W1-8W1	9 Δ	08H-8W1	1 O	08H-08H	14 #	04H-05H	1 +
		04H-04H	1 ∇								



ROCKRIDGE TECHNOLOGIES



# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12  
EXP1: SCOPE/ANALYZED SPECIAL INTEREST RPC

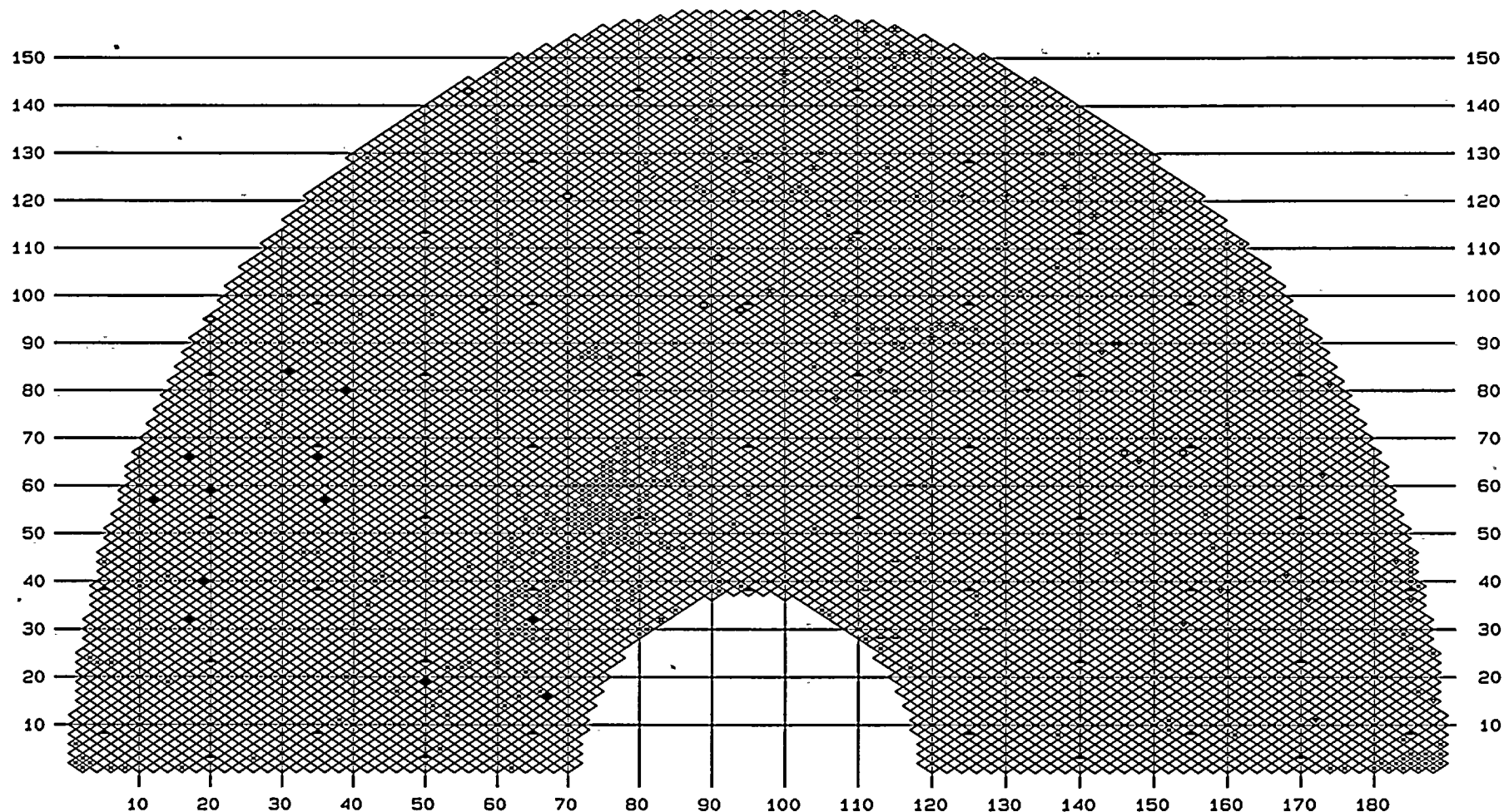
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HOT LEG - VARIOUS LENGTHS

STAYS

PLUGGED	302 X	Group68	6 -	Group69	1 I	Group71	8 O	Group72	18 *	Group75	0 \	Group85	0 Δ	Group89	15 ▽
		Group92	12 +	Group93	2 □	Group101	1 #	Group103	2 +						

MULTIPLE 4 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12  
EXP1: SCOPE/ANALYZED SPECIAL INTEREST RPC

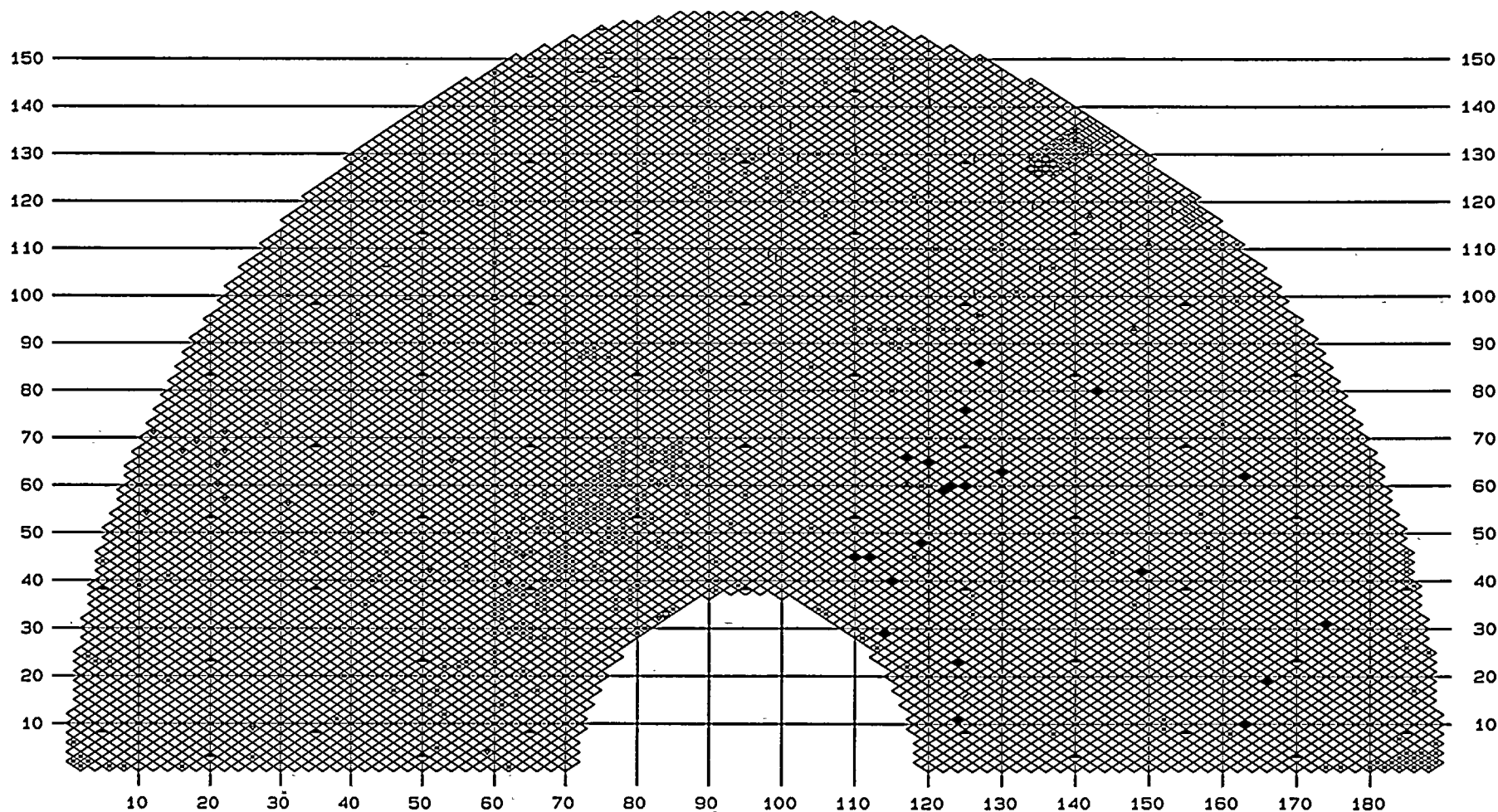
DATE: 10/18/96  
TIME: 18: 43: 41

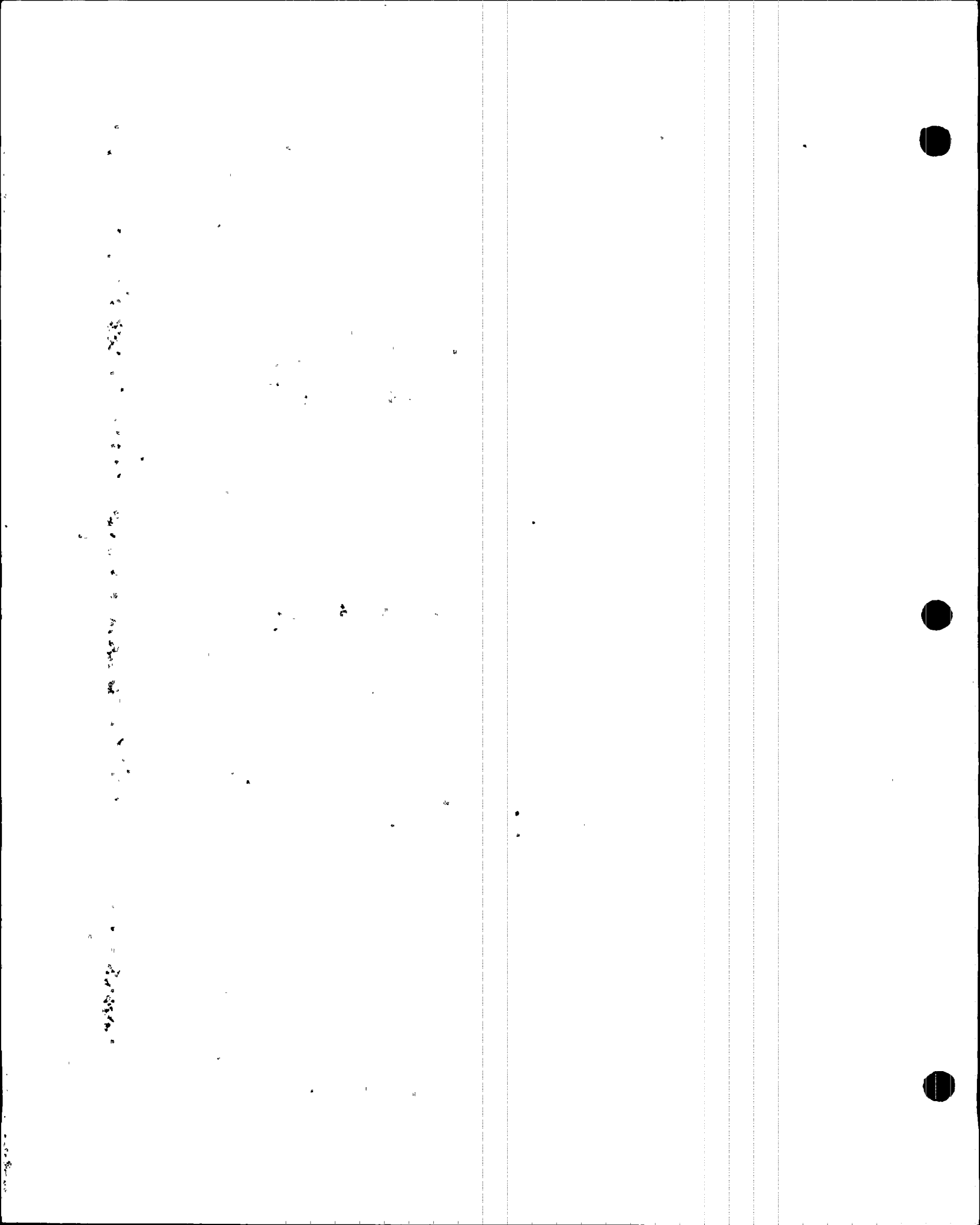
COLD LEG - VARIOUS LENGTHS

STAYS

PLUGGED	302 X	Group73	13 -	Group74	17 I	Group76	0 O	Group77	0 *	Group79	18 \	Group84	4 Δ	Group96	20 ∇
Group106	6 O	Group98	21 ♦	Group99	1 □	Group102	4 #	Group105	12 +	Group107	1 ≠	Group108	3 ≠		

MULTIPLE 4 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

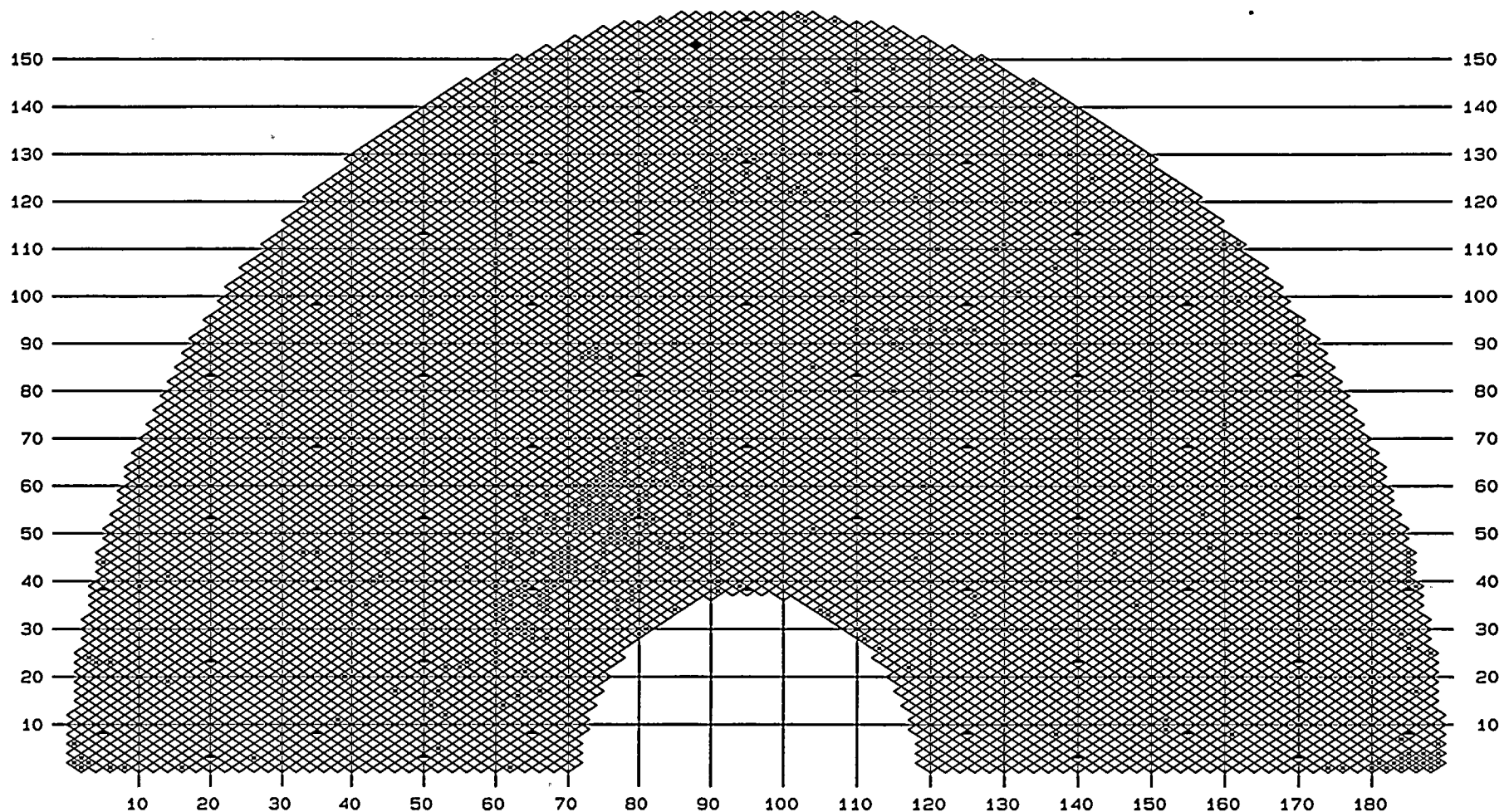
STEAM GENERATOR: 12  
EXP2: SCOPE/ANALYZED PREVIOUS BOBBIN WEAR RPC

DATE: 10/18/96  
TIME: 17:49:36

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 56

STAYS

PLUGGED 302 X 07H-VS3 1 ♦



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# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

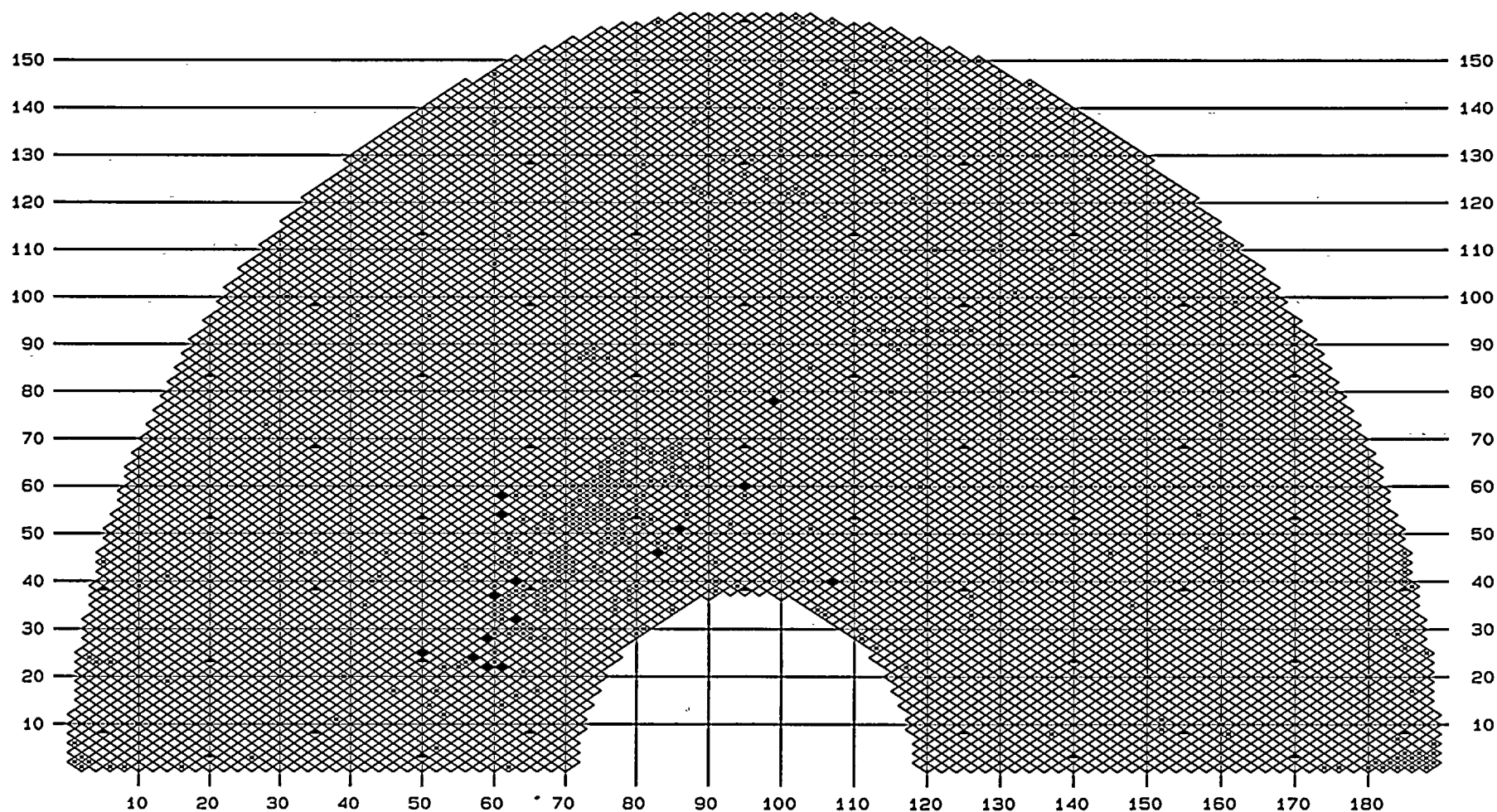
STEAM GENERATOR: 12  
EXP3: SCOPE/ANALYZED CIRC SIZING RPC

DATE: 10/18/96  
TIME: 19:15:39

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 70

STAYS ▲

PLUGGED 302 X TSH-TSH 15 ♦





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

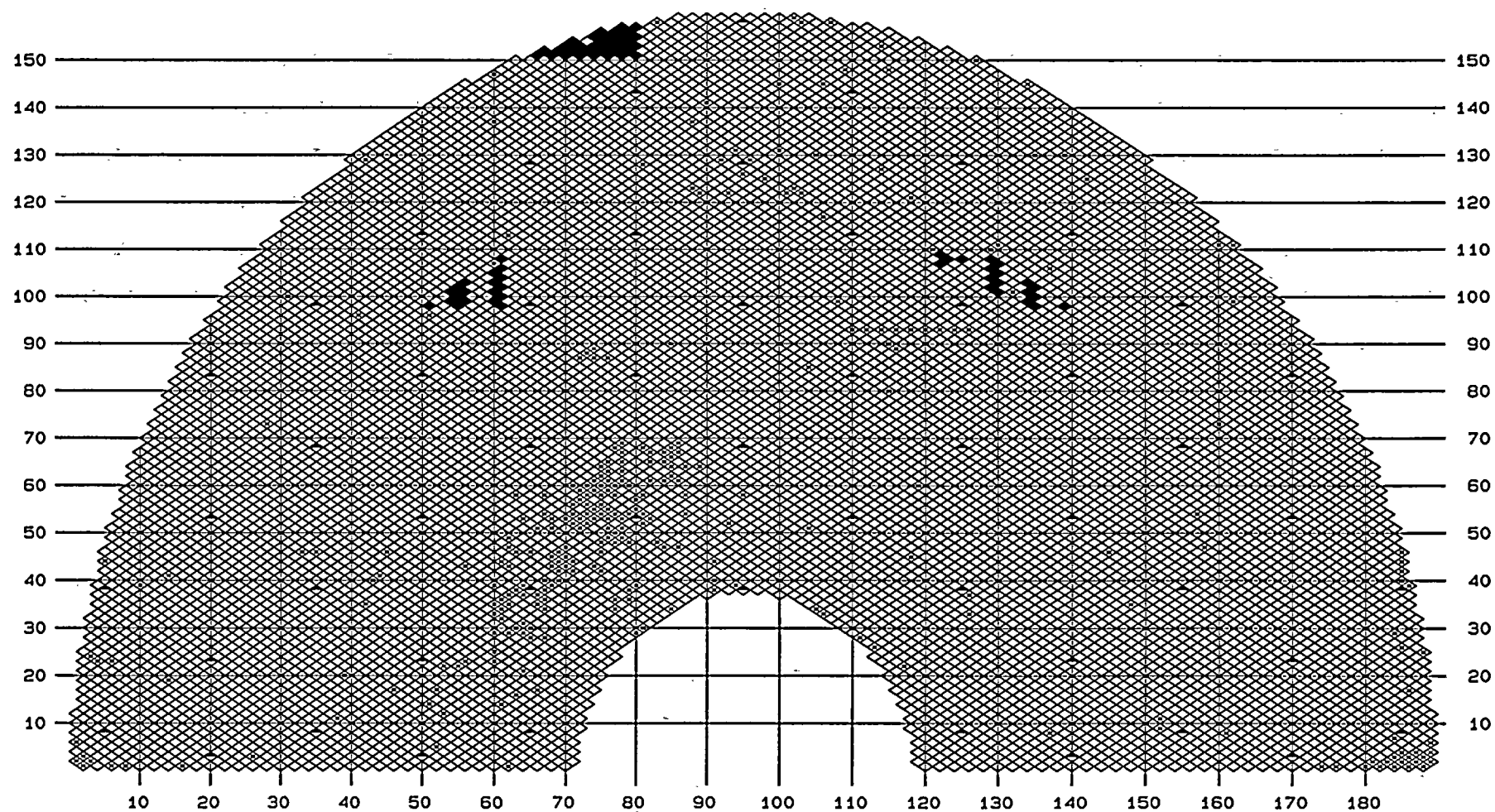
STEAM GENERATOR: 12  
EXP4: SCOPE/ANALYZED SAI/MAI BOUNDING RPC

DATE: 10/19/96  
TIME: 07: 25: 44

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 78, 86, 87, 88, 100, 104

STAYS ▲

PLUGGED 302 x 07H-VS3 72 ♦





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12  
EXP5: SCOPE/ANALYZED HIST. SPECIAL INT. RPC

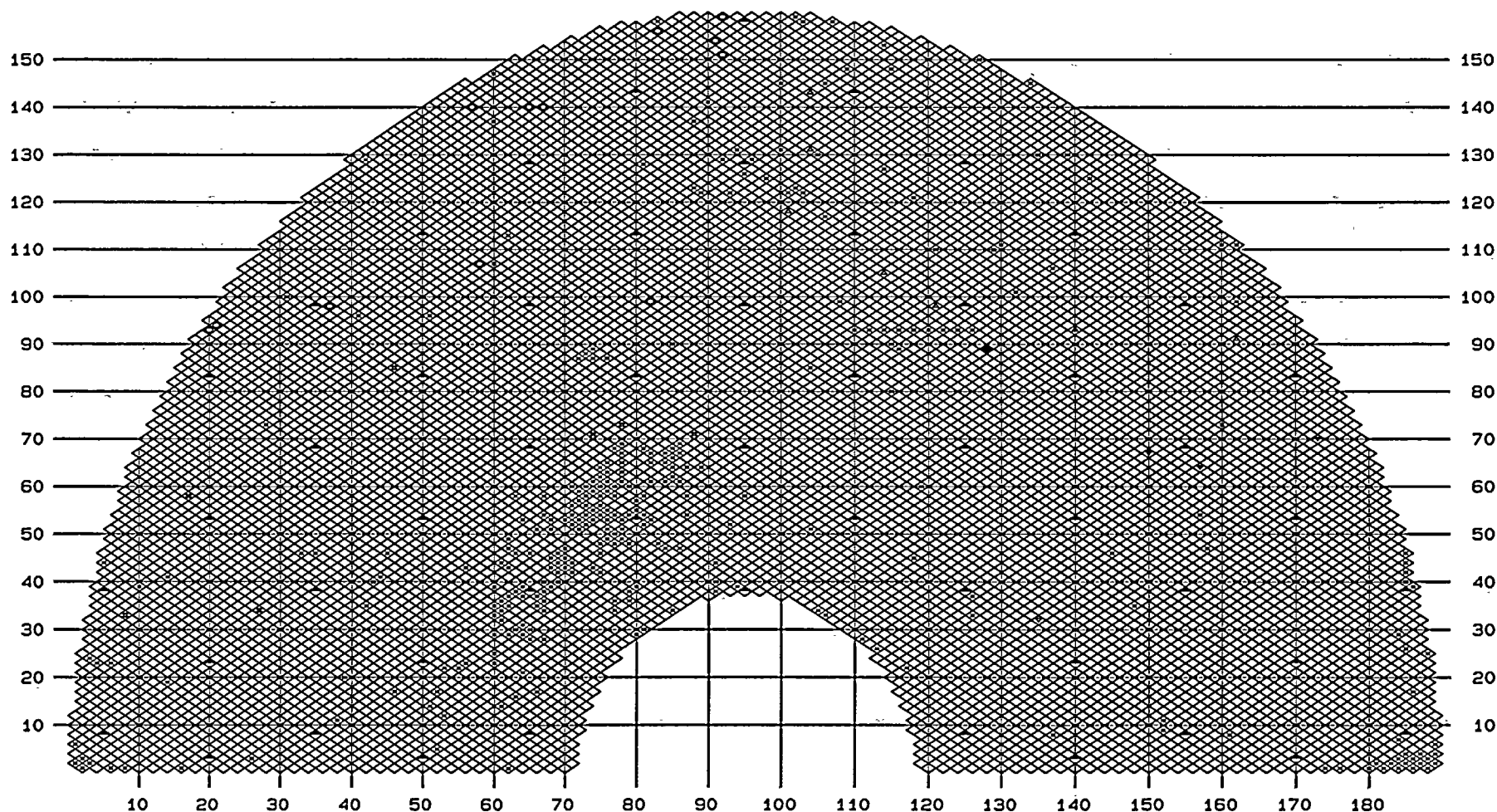
DATE: 10/19/96  
TIME: 08: 10: 57

HOT LEG - VARIOUS LENGTHS

STAYS

PLUGGED 302 X Group82 12 O Group83 7 Δ Group90 4 ▽ Group94 7 H Group95 1 ♦

MULTIPLE 0 /



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# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 12  
EXP5: SCOPE/ANALYZED HIST. SPECIAL INT. RPC

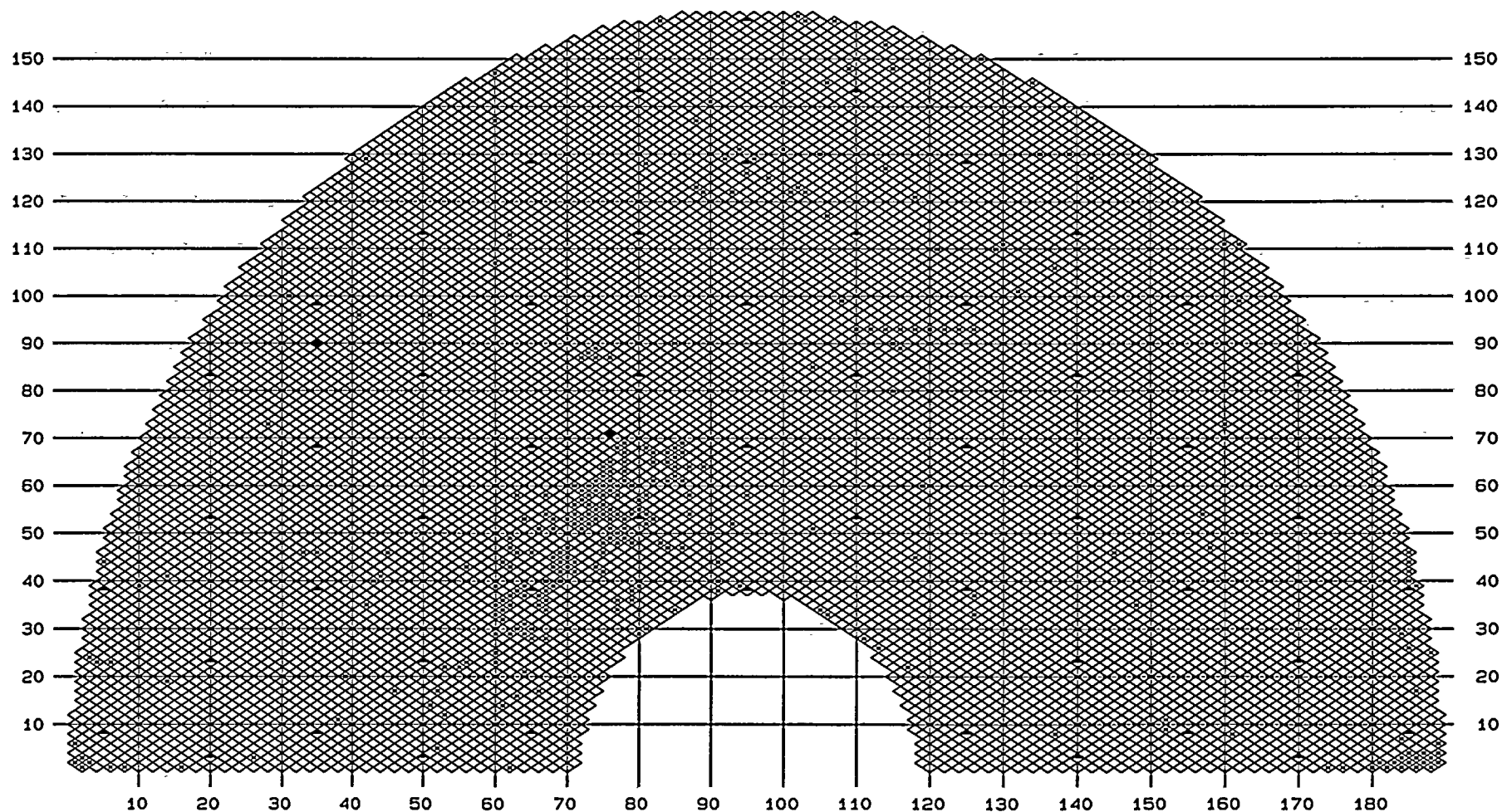
DATE: 10/19/96  
TIME: 08: 30: 35

COLD LEG - VARIOUS LENGTHS

STAYS

PLUGGED 302 X Group97 2 ♦

MULTIPLE 0 /





# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

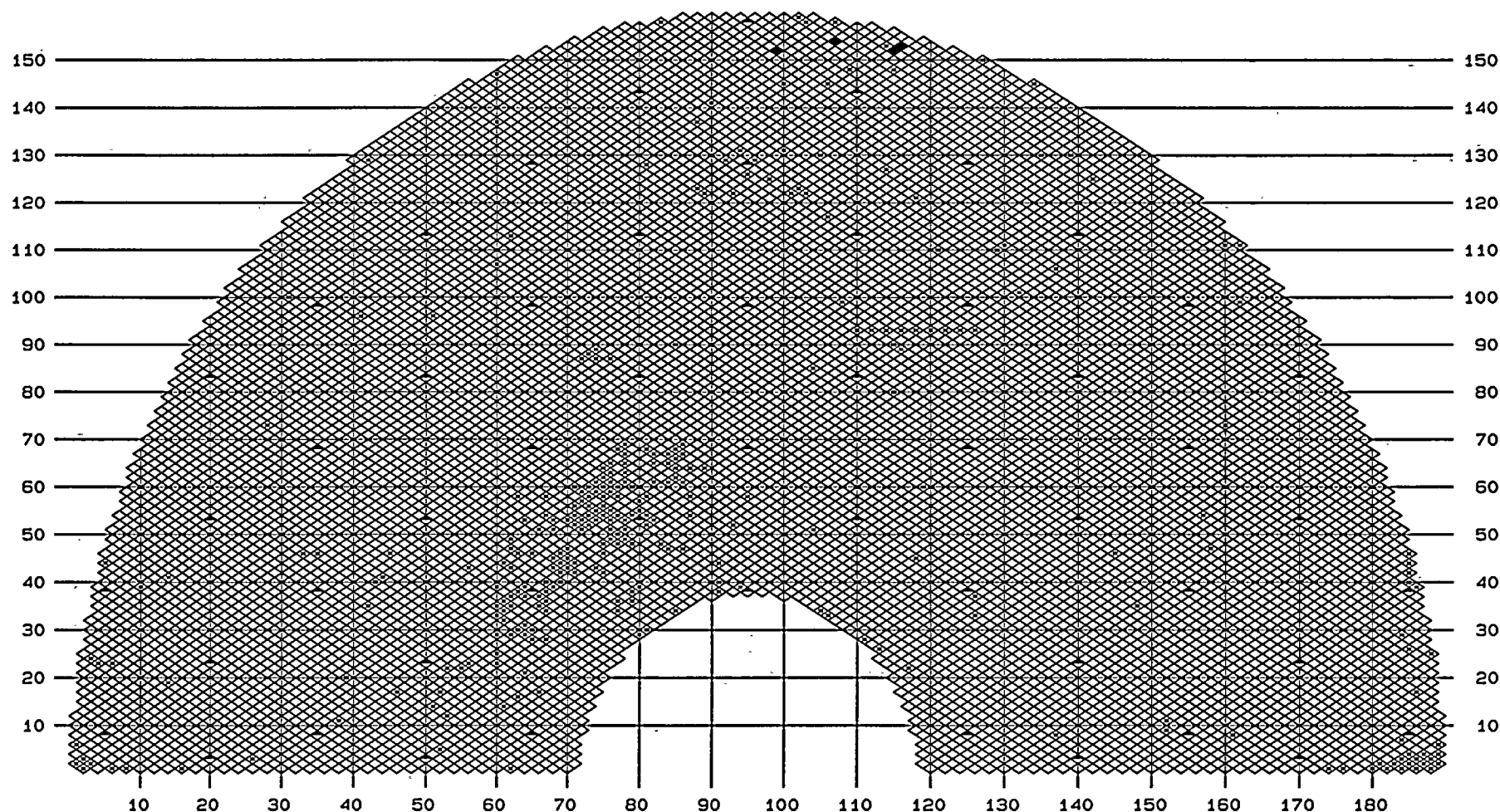
STEAM GENERATOR: 12  
EXP6: SCOPE/ANALYZED 20% ROWS>150 RPC

DATE: 10/19/96  
TIME: 08: 45: 55

CRITERIA: TUBES TO BE EXAMINED IN GROUP (S) 91

STAYS ▲

PLUGGED 302 x 07H-VS3 4 ♦



ROCKRIDGE TECHNOLOGIES



APPENDIX C

SUMMARY DATA SHEETS



## LEGEND

ROW:	Indicates the 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.
EXP:	Indicates expansion number.
CAL:	Indicates calibration number.
PROBE:	Indicates probe diameter and style used for examination. MF-bobbin coil mid-frequency SF-bobbin coil spring flex HS-bobbin coil high speed BC-RC big coil CP-RC ceramic plus point TP-RC torlon plus point
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.
RC:	Rotating Coil
ANALYSIS CODES:	Absolute Drift .....ADR After Pressure Test.....APT Bad Data.....BDA Baseline Indication.....BLI Bulge.....BLG Bowing.....BOW Deposit.....DEP Dent.....DNT Distorted Support Signal With Indication.....DSI Distorted Top of Tubesheet With Indication.....DTI Expansion Transition Location.....ETL For Information Only.....FIO Fixture.....FIX ID Chatter.....IDC Indication Not Found.....INF Indication Not Reportable.....INR Multiple Axial Indication.....MAI Mixed Mode Indication.....MMI Multiple Circumferential Indication.....MCI Multiple Volumetric Indication.....MVI



No Bobbin Indication.....NBI  
No Detectable Defect.....NDD  
Non-Quantifiable Indication .....NQI  
No Tube Sheet Expansion.....NTE  
Obstructed .....OBS  
Previous Bobbin Call .....PBC  
Possible Deposit.....PDP  
Positive Identification .....PID  
Plugged .....PLG  
Possible Loose Part with Indication.....PLI  
Possible Loose Part .....PLP  
Possible Plus Point Indication.....PPI  
Previous RC Call.....PRC  
Retest From Other Leg.....ROL  
Retest With 3 coil Probe .....R3C  
Review Bobbin Probe .....RBP  
Retest With Flexible U-bend RC Probe.....RFF  
Retest with Magnetic Bias RC Probe.....RMB  
Single Axial Indication .....SAI  
Single Circumferential Indication.....SCI  
Sleeved .....SLV  
Single Volumetric Indication .....SVI  
Sludge .....SLG  
Volumetric Indication.....VOL  
To Be Plugged .....TBP  
Tube Number check .....TNC  
Ultrasonic Tube Test .....UTT



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 1 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
8	1	10/96		C	TEC-TEH	TEC-TEH			00132	610VS	02C+	0.85	0.62		0	<20	P 2
10	1	10/96		C	01C-02C	01C-02C	1		00198	600HP	02C-	0.08	0.73		0	<20	P 3
13	2	10/96		C	01C-01C	01C-01C	1		00195	580HP	01C+	1.04	0.82		.7	SVI	P 2
		10/96		C	01C-01C	01C-01C	1		00195	580HP	01C+	1.04	1.16		.8	SVI	P 3
		10/96		C	01C-01C	01C-01C	1		00195	580HP	01C+	1.04	40.00		77	SVI	P 3
39	4	10/96		C	TEC-TEH	TEC-TEH			00132	610VS	03C-	0.94	0.75		0	<20	P 2
47	6	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	04C+	0.86	0.41		0	<20	P 2
51	8	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	BW2-	1.83	0.20		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00134	610VS	BW2+	1.76	0.22		0	<20	P 2
55	8	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	BW2-	1.77	0.21		0	<20	P 2
59	8	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	03C-	0.91	0.35		0	<20	P 2
58	9	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	BW2+	1.83	0.25		0	<20	P 2
51	10	10/96		C	TEC-TEH	TEC-TEH			00101	610VS	BW1+	2.04	0.22		0	<20	P 2
55	10	10/96		C	TEC-TEH	TEC-TEH			00134	610VS	06C+	0.86	0.22		0	<20	P 2
44	11	10/96		C	TEC-TEH	TEC-TEH			00088	610VS	BW1+	1.89	0.40		0	<20	P 2
66	11	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	BW1+	2.16	0.24		0	<20	P 2
1	12	10/96		C	TEC-07C	TEC-07C			00135	610VS	02C-	0.19	0.58		0	<20	P 2
25	12	10/96		C	TEC-TEH	TEC-TEH			00088	610VS	BW1+	1.83	0.38		0	<20	P 2
51	12	10/96		C	TEC-TEH	TEC-TEH			00101	610VS	BW1+	2.10	0.32		0	<20	P 2
65	12	10/96		C	TEC-TEH	TEC-TEH			00132	610VS	BW1+	1.91	0.34		0	<20	P 2
67	12	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	BW1-	1.75	0.36		0	<20	P 2
2	13	10/96		C	TEC-07C	TEC-07C			00135	610VS	03C-	0.99	0.58		0	<20	P 2
42	13	10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.31	0.60		0.3	SCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.31	0.99		0.3	SCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.31	18.00		81	SCI	P 4
50	13	10/96		C	TEC-TEH	TEC-TEH			00101	610VS	BW1+	2.00	0.30		0	<20	P 2
74	13	10/96		C	TEC-TEH	TEC-TEH			00132	610VS	04C-	0.19	0.41		0	<20	P 2
76	13	10/96		C	TEC-TEH	TEC-TEH			00132	610VS	04C-	0.16	0.45		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00132	610VS	03C+	0.82	0.31		0	<20	P 2
23	14	10/96		C	TEC-TEH	TEC-BW2			00089	610VS						OBS	
41	14	10/96		C	TEC-TEH	TEC-TEH			00088	610VS	BW1+	1.97	0.42		0	<20	P 2
48	15	10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.09	0.25		0.3	SCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.09	0.56		0.2	SCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.09	20.00		74	SCI	P 4
54	15	10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.17	0.00		0	MCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.17	0.21		0.1	MCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.17	0.00		110	MCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.14	0.00		0	MCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.14	0.39		0.2	MCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.14	0.00		133	MCI	P 4
9	16	10/96		C	BW2-BW2	BW2-BW2	1		00195	580HP	BW2-	0.13	0.97		0	<20	P 3
25	16	10/96		C	TEC-TEH	TEC-TEH			00088	610VS	BW1+	1.90	0.37		0	<20	P 2
29	16	10/96		H	TSH-TSH	TSH-TSH			00068	600HP	TSH-	0.21	0.13		0.2	SCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00068	600HP	TSH-	0.21	0.46		0.2	SCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00068	600HP	TSH-	0.21	22.00		23	SCI	P 4



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 2 OF 48  
DATE: 01/01/97  
TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
35	16	10/96		C	TEC-TEH	TEC-TEH			00089	610VS	02C+	14.53	2.52		16	BLI	1
53	16	10/96		C	TEC-TEH	TEC-TEH			00100	610VS	BW1+	2.00	0.32		0	<20	P 2
65	16	10/96		C	TEC-TEH	TEC-TEH			00100	610VS	08C+	0.35	0.37		0	<20	P 2
73	16	10/96		C	TEC-TEH	TEC-TEH			00100	610VS	BW1+	2.07	0.31		0	<20	P 2
79	16	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	BW1+	1.75	0.28		0	<20	P 2
32	17	10/96		H	BW1-BW1	BW1-BW1	5		00436	580HP	BW1+	1.55	0.63		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00088	610VS	BW1+	1.80	0.36		0	<20	P 2
38	17	10/96		C	TEC-TEH	TEC-BW2			00089	610VS	BW2+	4.37				OBS	
52	17	10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.11	0.07		0.2	SCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.11	0.29		0.2	SCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00109	600HP	TSH-	0.11	3.00		31	SCI	P 4
56	17	10/96		C	TEC-TEH	TEC-TEH			00100	610VS	BW1+	2.02	0.20		0	<20	P 2
60	17	10/96		C	TEC-TEH	TEC-TEH			00100	610VS	VSS-	0.78	0.46		0	<20	P 2
41	18	10/96		C	TEC-TEH	TEC-TEH			00088	610VS	02H+	20.54	3.59		10	BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00088	610VS	02H+	25.59	8.04		10	BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00088	610VS	02H+	30.24	2.33		1	BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00088	610VS	02H+	38.33	2.90		4	BLI	P 1
43	18	10/96		C	TEC-TEH	TEC-TEH			00089	610VS	VS4+	0.82	0.69		136	23	P 2
51	18	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1-	2.02	0.24		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.12	0.26		0	<20	P 2
57	18	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	1.98	0.40		0	<20	P 2
73	18	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.00	0.44		0	<20	P 2
81	18	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	BW1+	1.80	0.55		0	<20	P 2
85	18	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	BW1+	1.75	0.24		0	<20	P 2
20	19	10/96		C	TEC-TEH	TEC-TEH			00090	610VS	BW1+	1.82	0.34		0	<20	P 2
40	19	10/96		C	TEC-TEH	TEC-TEH			00090	610VS	BW1+	2.00	0.26		0	<20	P 2
50	19	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW2+	1.82	0.22		0	<20	P 2
54	19	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.16	0.31		0	<20	P 2
62	19	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	1.97	0.44		0	<20	P 2
84	19	10/96		C	TEC-TEH	TEC-TEH			00133	610LF	VSS+	0.74	2.18		0	36	P 2
1	20	10/96		C	TEC-07C	TEC-07C			00135	610VS	02C+	0.91	1.25		0	25	P 2
		10/96		C	02C-02C	02C-02C	1		00182	560HP	02C+	0.90	1.41		0	20	P 3
9	20	10/96		C	TEC-TEH	TEC-TEH			00090	610VS	BW1+	1.82	0.55		0	<20	P 2
21	20	10/96		C	TEC-TEH	TEC-06C			00090	610VS						OBS	
37	20	10/96		C	TEC-TEH	TEC-TEH			00091	610VS	BW1+	2.01	0.36		0	<20	P 2
49	20	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.11	0.22		0	<20	P 2
51	20	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	1.93	0.44		0	<20	P 2
63	20	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.17	0.20		0	<20	P 2
79	20	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.11	0.17		0	<20	P 2
85	20	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.11	0.34		0	<20	P 2
2	21	10/96		C	TEC-07C	TEC-07C			00134	610VS	04C+	0.80	0.34		0	<20	P 2
50	21	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.21	0.21		0	<20	P 2
68	21	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.00	0.28		0	<20	P 2
80	21	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.03	0.31		0	<20	P 2
84	21	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.00	0.40		0	<20	P 2

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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	VS5-TEH		00146	610VS	BW1+	2.00	0.39	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00102	610VS	VS3-	0.78	0.42	0	<20	P 2	
		10/96		C	TEC-TEH	VS5-TEH		00146	610VS	VS3-	0.78	0.48	0	<20	P 2	
86	21	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.23	0.25	0	<20	P 2	
92	21	10/96		C	TEC-TEH	TEC-TEH		00076	610VS	VS2+	0.75	0.52	0	<20	P 2	
1	22	10/96		C	TEC-07C	TEC-07C		00135	610VS	03C-	0.97	0.63	0	<20	P 2	
51	22	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.11	0.24	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00103	610VS	VS4+	0.66	0.56	0	<20	P 2	
59	22	10/96		H	TSH-TSH	TSH-TSH		00108	600HP	TSH-	0.15	0.48	0.1	SAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00108	600HP	TSH-	0.15	0.56	0.1	SAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00108	600HP	TSH-	0.15	0.00	46	SAI	P 3	
46	23	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1-	2.24	0.25	0	<20	P 2	
50	23	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	1.78	0.28	0	<20	P 2	
54	23	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.17	0.18	0	<20	P 2	
70	23	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	1.80	0.22	0	<20	P 2	
76	23	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	VS3-	0.65	0.50	0	<20	P 2	
49	24	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.18	0.22	0	<20	P 2	
57	24	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1-	2.14	0.31	0	<20	P 2	
59	24	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	BW1+	1.92	0.52	0	<20	P 2	
61	24	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	1.97	0.31	0	<20	P 2	
8	25	10/96		C	TEC-TEH	TEC-TEH		00091	610VS	BW2-	1.86	0.40	0	<20	P 2	
10	25	10/96		C	TEC-TEH	TEC-TEH		00091	610VS	BW2+	1.76	0.49	0	<20	P 2	
50	25	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	1.85	0.33	0	<20	P 2	
52	25	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	BW1+	1.96	0.29	0	<20	P 2	
56	25	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	02C+	31.21	0.51	142	<20	1	
		10/96		C	02C-03C	02C-03C	1	00195	580HP	02C+	31.21	0.34	.3	SVI	P 2	
		10/96		C	02C-03C	02C-03C	1	00195	580HP	02C+	31.21	0.65	.2	SVI	P 3	
		10/96		C	02C-03C	02C-03C	1	00195	580HP	02C+	31.21	159.0	24	SVI	P 3	
58	25	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.15	0.29	0	<20	P 2	
60	25	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	BW1+	2.01	0.57	0	<20	P 2	
62	25	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1-	2.11	0.39	0	<20	P 2	
80	25	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	VS3+	0.92	0.36	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00102	610VS	VS5-	0.87	1.16	0	21	P 2	
82	25	10/96		H	TSH-TSH	TSH-01H		00432	580HP	TSH+	5.10	0.47	0.4	SVI	P 2	
		10/96		H	TSH-TSH	TSH-01H		00432	580HP	TSH+	5.10	0.41	0.4	SVI	P 3	
		10/96		H	TSH-TSH	TSH-01H		00432	580HP	TSH+	5.10	120.0	110	SVI	P 3	
47	26	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	04H+	35.72	3.48	8	BLI	1	
		10/96		C	TEC-TEH	TEC-TEH		00103	610VS	07C+	28.20	1.79	14	BLI	1	
51	26	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.24	0.29	0	<20	P 2	
53	26	10/96		C	TEC-TEH	TEC-TEH		00102	610VS	BW1+	2.00	0.43	0	<20	P 2	
55	26	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.24	0.25	0	<20	P 2	
59	26	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	1.78	0.37	0	<20	P 2	
71	26	10/96		C	TEC-TEH	TEC-TEH		00103	610VS	BW1+	2.20	0.21	0	<20	P 2	
32	27	10/96		C	TEC-TEH	TEC-TEH		00092	610VS	BW1+	2.10	0.33	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00092	610VS	BW2+	1.79	0.30	0	<20	P 2	



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STEAM GENERATOR : 11  
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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	¢	CH	CHNG
42	27	10/96		H	TSH-TSH	TSH-TSH			00114	600HP	TSH-	0.19	1.08	0.6	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH			00114	600HP	TSH-	0.19	1.48	0.4	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH			00114	600HP	TSH-	0.19	22.00	54	SCI	P 4	
50	27	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	07C-	0.99	0.33	0	<20	P 2	
54	27	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.12	0.17	0	<20	P 2	
58	27	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1-	2.24	0.31	0	<20	P 2	
60	27	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.00	0.27	0	<20	P 2	
64	27	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1-	2.00	0.29	0	<20	P 2	
66	27	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1-	2.25	0.26	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	VS5-	0.91	0.50	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	VS5+	0.68	0.51	0	<20	P 2	
108	27	10/96		H	07H-VS3	07H-VS3			00212	580HP	BW1+	1.88	0.99	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00076	610VS	BW1+	2.00	0.48	0	<20	P 2	
1	28	10/96		C	TEC-07C	TEC-07C			00135	610VS	02C+	0.86	0.62	0	<20	P 2	
41	28	10/96		C	TEC-TEH	TEC-TEH			00092	610VS	BW1+	1.88	0.29	0	<20	P 2	
51	28	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.23	0.39	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	VS4-	0.76	0.36	0	<20	P 2	
57	28	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	2.01	0.35	0	<20	P 2	
59	28	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	1.97	0.18	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW2+	1.76	0.21	0	<20	P 2	
111	28	10/96		C	TEC-TEH	TEC-TEH			00076	610VS	BW1+	2.17	0.46	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00076	610VS	VS2-	0.80	0.49	0	<20	P 2	
40	29	10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.14	0.40	0.2	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.14	0.52	0.2	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH			00112	600HP	TSH-	0.14	19.00	28	SCI	P 4	
		10/96		C	TEC-TEH	TEC-TEH			00092	610VS	BW1+	2.23	0.27	0	<20	P 2	
52	29	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	1.90	0.52	0	<20	P 2	
60	29	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	BW1+	1.92	0.59	0	<20	P 2	
17	30	10/96		C	TEC-TEH	TEC-TEH			00092	610VS	VS4-	0.86	0.53	0	<20	P 2	
47	30	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS4-	0.69	0.55	0	<20	P 2	
59	30	10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW1+	2.16	0.24	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00103	610VS	BW2+	1.85	0.18	0	<20	P 2	
63	30	10/96		C	TEC-TEH	TEC-02H			00103	610VS	06C-	0.96	0.30	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	06C-	1.10	0.18	0	<20	P 2	
81	30	10/96		C	TEC-TEH	TEC-TEH			00102	610VS	VS3+	0.88	0.63	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00102	610VS	VS5-	1.00	0.68	0	<20	P 2	
107	30	10/96		H	07H-VS3	07H-VS3			00214	580HP	BW1-	0.70	0.41	0	<20	P 3	
46	31	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS4+	0.76	0.54	0	<20	P 2	
52	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	2.15	0.39	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3+	1.05	0.50	0	<20	P 2	
60	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H-	1.05	0.45	0	<20	P 2	
68	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	2.08	0.39	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3-	0.81	0.30	0	<20	P 2	
70	31	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.90	0.52	0	<20	P 2	
72	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3-	0.78	0.59	0	<20	P 2	



CUMULATIVE REPORT  
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STEAM GENERATOR : 11  
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SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5-	0.68	0.59		0	<20	P 2
80	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5-	0.98	0.53		0	<20	P 2
84	31	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5-	0.87	0.48		0	<20	P 2
92	31	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	1.83	0.62		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00039	610VS	BW1+	1.83	0.65		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00215	580HP	BW1+	1.92	1.27		0	22	P 3
94	31	10/96		H	07H-VS3	07H-VS3			00211	580HP	BW1+	1.31	1.04		0	<20	P 3
96	31	10/96		H	07H-VS3	07H-VS3			00310	580HP	BW1+	1.66	0.57		0	<20	P 3
110	31	10/96		C	TEC-TEH	TEC-TEH			00075	610VS	BW1+	1.94	0.36		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00211	580HP	BW1+	2.12	1.32		0	<20	P 3
116	31	10/96		C	TEC-TEH	TEC-TEH			00076	610VS	08H+	0.83	0.43		0	<20	P 2
		10/96		H	07H-VS3	09H-VS3			00212	580HP	09H+	1.12	0.88		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00076	610VS	BW2+	1.77	0.58		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00076	610VS	09C+	1.38	0.36		0	<20	P 2
		10/96		C	09C-09C	09C-09C	1		00195	580HP	09C+	1.01	1.15		0	<20	P 3
17	32	10/96		C	TEC-TEH	TEC-TEH			00092	610VS	VS4-	0.90	0.34		0	<20	P 2
63	32	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW1-	2.22	0.39		0	<20	P 2
65	32	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	08H+	0.00	0.56		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3-	1.08	0.43		0	<20	P 2
67	32	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW1+	2.23	0.48		0	<20	P 2
101	32	10/96		H	07H-VS3	07H-VS3			00209	580HP	BW1+	1.90	0.53		0	<20	P 3
109	32	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	08H+	0.89	0.56		0	<20	P 2
		10/96		H	07H-VS3	07H-VS6			00209	580HP	08H+	0.90	0.76		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00039	610VS	08H+	0.93	0.54		0	<20	P 2
113	32	10/96		H	07H-VS3	07H-VS3			00212	580HP	BW1-	1.89	0.80		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00212	580HP	BW1+	2.04	0.57		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00076	610VS	VS2-	0.72	0.46		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00212	580HP	VS2-	0.72	0.82		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00212	580HP	VS2+	1.13	0.72		0	<20	P 3
117	32	10/96		C	TEC-TEH	TEC-TEH			00076	610VS	09H+	0.42	0.92		0	20	P 2
2	33	10/96		C	TEC-07C	TEC-07C			00134	610VS	03C+	0.80	0.33		0	<20	P 2
		10/96		C	TEC-07C	TEC-07C			00134	610VS	02C-	0.19	0.31		0	<20	P 2
52	33	10/96		H	07H-BW1	07H-VS3	5		00436	580HP	BW1+	2.19	0.67		0	<20	P 3
		10/96		H	07H-BW1	07H-VS3	5		00436	580HP	VS3-	0.28	0.79		0	<20	P 3
60	33	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	0.85	0.43		0	<20	P 2
64	33	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	0.00	0.48		0	<20	P 2
68	33	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	08H+	0.83	0.45		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3-	0.40	0.48		0	<20	P 2
76	33	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5-	0.87	0.51		0	<20	P 2
88	33	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5+	0.75	1.32		0	29	P 2
90	33	10/96		H	07H-VS3	07H-VS3			00208	580HP	BW1+	1.92	0.75		0	<20	P 3
100	33	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	1.99	0.27		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00209	580HP	BW1+	2.00	0.91		0	<20	P 3
114	33	10/96		C	TEC-TEH	TEC-TEH			00076	610VS	08H+	0.77	0.49		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00208	580HP	08H+	0.83	0.42		0	<20	P 3



## CUMULATIVE REPORT

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STEAM GENERATOR : 11  
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ROW	LIN	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
			10/96		H	07H-VS3	07H-VS3			00208	580HP	BW1+	1.89	0.54		0	<20	P 3
116	33		10/96		C	TEC-TEH	TEC-TEH			00075	610VS	BW1-	1.88	0.24		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00209	580HP	BW1-	1.68	0.85		0	<20	P 3
			10/96		H	07H-VS3	07H-VS3			00209	580HP	BW1+	1.62	0.60		0	<20	P 3
17	34		10/96		C	TEC-TEH	TEC-TEH			00092	610VS	VS4-	0.90	0.48		0	<20	P 2
53	34		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	0.92	0.67		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	1.88	0.23		0	<20	P 2
61	34		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	0.79	0.41		0	<20	P 2
67	34		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	08H-	0.15	0.92		0	<20	P 2
			10/96		H	08H-08H	08H-08H	1		00432	580HP	08H+	0.74	1.43		0	24	P 3
69	34		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	08H+	0.89	0.54		0	<20	P 2
99	34		10/96		H	07H-VS3	07H-VS3			00208	580HP	BW1+	1.76	0.87		0	<20	P 3
103	34		10/96		H	07H-VS3	07H-VS3			00208	580HP	VS2+	1.00	0.83		0	<20	P 3
111	34		10/96		H	07H-VS3	07H-VS3			00208	580HP	VS2-	0.78	0.41		0	<20	P 3
			10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS3-	0.77	0.55		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00035	610VS	VS3-	0.71	0.50		0	<20	P 2
115	34		10/96		C	TEC-TEH	TEC-TEH			00075	610VS	BW1+	1.75	0.24		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00208	580HP	BW1+	1.86	0.93		0	<20	P 3
119	34		10/96		H	07H-VS3	07H-VS3			00300	580HP	BW1-	1.80	0.92		0	<20	P 3
52	35		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	1.03	0.54		0	<20	P 2
56	35		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	1.08	0.43		0	<20	P 2
60	35		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	07H+	0.40	0.34		0	<20	P 2
66	35		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	08H-	1.06	0.51		0	<20	P 2
72	35		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	2.10	0.42		0	<20	P 2
76	35		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5+	0.91	0.74		0	<20	P 2
78	35		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS3-	0.69	0.82		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.92	0.58		0	<20	P 2
82	35		10/96		H	VS3-VS3	VS3-VS3			00217	580HP	VS3-	0.99	1.70		0	27	P 3
			10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS3-	0.76	2.08		0	33	P 2
			10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5-	0.79	1.40		0	26	P 2
			10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.97	0.54		0	<20	P 2
86	35		10/96		C	TEC-TEH	TEC-TSH			00105	610VS	VS3-	0.78	0.62		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS3-	0.72	0.43		0	<20	P 2
96	35		10/96		H	07H-VS3	07H-VS3			00208	580HP	BW1+	2.05	0.40		0	<20	P 3
102	35		10/96		H	07H-VS3	07H-VS3			00202	580HP	BW1-	1.89	0.60		0	<20	P 3
			10/96		H	07H-VS3	07H-VS3			00203	580HP	BW1+	1.81	0.66		0	<20	P 3
			10/96		H	07H-VS3	07H-VS3			00202	580HP	BW1+	1.99	0.69		0	<20	P 3
106	35		10/96		H	07H-VS3	07H-VS3			00201	580HP	BW1-	1.82	0.78		0	<20	P 2
112	35		10/96		H	07H-VS3	07H-VS3			00202	580HP	BW1+	1.75	0.69		0	<20	P 3
17	36		10/96		C	TEC-TEH	TEC-TEH			00092	610VS	VS4+	1.06	0.36		0	<20	P 2
39	36		10/96		C	TEC-TEH	TEC-TEH			00093	610VS	BW1+	1.77	0.40		0	<20	P 2
55	36		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW1-	2.25	0.32		0	<20	P 2
81	36		10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3+	1.01	0.40		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS5+	1.21	0.56		0	<20	P 2
99	36		10/96		H	07H-VS3	07H-VS3			00202	580HP	BW1+	2.00	1.37		0	22	P 3



CUMULATIVE REPORT  
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STEAM GENERATOR : 11  
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SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
109	36	10/96		C	TEC-TEH	TEC-TEH			00038	610VS	BW1+	1.88	0.34		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00201	580HP	BW1+	1.93	0.90		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00035	610VS	BW1+	2.09	0.21		0	<20	P 2
111	36	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	08H+	0.55	0.28		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00202	580HP	08H+	0.82	0.47		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00039	610VS	VS2-	0.98	0.79		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00202	580HP	VS2-	0.81	1.45		0	23	P 3
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS2-	0.80	0.73		0	20	P 2
		10/96		H	07H-VS3	07H-VS3			00202	580HP	VS3+	0.94	1.65		0	25	P 3
		10/96		C	TEC-TEH	TEC-TEH			00039	610VS	VS3+	1.00	0.74		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS3+	1.01	0.63		0	<20	P 2
113	36	10/96		C	TEC-TEH	TEC-TEH			00035	610VS	BW1+	1.92	0.36		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	BW1+	2.00	0.32		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00203	580HP	BW1+	2.00	0.77		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00203	580HP	VS2-	0.77	0.70		0	<20	P 3
52	37	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	2.21	0.50		0	<20	P 2
66	37	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	08H-	0.84	0.53		0	<20	P 2
78	37	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5-	0.79	0.66		0	<20	P 2
82	37	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS3-	0.69	1.00		0	21	P 2
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5-	0.82	0.42		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.74	0.69		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW2+	1.81	0.21		0	<20	P 2
84	37	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	BW1+	2.21	0.33		0	<20	P 2
98	37	10/96		C	TEC-TEH	TEC-TEH			00035	610VS	BW1-	1.96	0.32		0	<20	P 2
116	37	10/96		H	07H-VS3	07H-VS3			00310	580HP	BW1+	1.75	0.45		0	<20	P 3
124	37	10/96		H	07H-VS2	07H-VS2			00289	580HP	09H+	0.66	0.79		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00073	610VS	09H+	0.76	0.37		0	<20	P 2
71	38	10/96		C	TEC-TEH	TEC-TEH			00146	610VS	BW1+	2.12	0.47		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS3-	0.91	0.77		0	<20	P 2
		10/96		C	TEC-TEH	TSC-TEH			00105	610VS	VS3-	0.80	0.96		0	21	P 2
		10/96		C	TEC-TEH	TSC-TEH			00105	610VS	VS5+	0.89	0.55		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS5+	0.99	0.45		0	<20	P 2
81	38	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3-	0.86	0.29		0	<20	P 2
83	38	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS3-	0.91	0.46		0	<20	P 2
91	38	10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS2+	1.00	0.60		0	<20	P 2
99	38	10/96		H	07H-VS3	07H-VS3			00202	580HP	BW1+	1.82	0.32		0	<20	P 3
107	38	10/96		H	07H-VS3	07H-VS3			00202	580HP	07H-	0.10	0.39		0	<20	P 3
109	38	10/96		H	07H-VS3	07H-VS3			00203	580HP	VS2-	0.84	1.32		0	21	P 3
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS2-	0.80	1.24		0	29	P 2
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS2-	0.77	1.33		0	25	P 2
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS2+	0.86	0.80		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00203	580HP	VS2+	0.87	0.98		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS5-	0.92	1.36		0	25	P 2
111	38	10/96		H	07H-VS3	07H-VS3			00201	580HP	VS2-	0.26	0.68		0	<20	P 3
117	38	10/96		C	TEC-TEH	TEC-TEH			00046	610VS	09H+	1.98	0.45		79	<20	P 2



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STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	TEC-TEH		00046	610VS	BW1+	1.80	0.19		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00309	580HP	BW1+	2.01	0.70		0	<20	P 3
32	39	10/96		H	TSH-TSH	TSH-TSH		00060	600HP	TSH-	0.24	0.00		0	SAI	P 2
		10/96		H	TSH-TSH	TSH-TSH		00060	600HP	TSH-	0.24	0.61		0.3	SAI	P 3
		10/96		H	TSH-TSH	TSH-TSH		00060	600HP	TSH-	0.24	0.00		49	SAI	P 3
38	39	10/96		C	TEC-TEH	TEC-TEH		00093	610VS	BW1+	1.79	0.33		0	<20	P 2
46	39	10/96		C	TEC-TEH	TEC-TEH		00146	610VS	VS4-	0.81	0.33		0	<20	P 2
		10/96		C	TEC-TEH	TSC-TEH		00105	610VS	VS4-	0.80	0.44		0	<20	P 2
66	39	10/96		C	TEC-TEH	TEC-TEH		00105	610VS	07H+	0.97	0.45		0	<20	P 2
68	39	10/96		C	TEC-TEH	TEC-TEH		00104	610VS	VS5-	0.68	0.82		0	21	P 2
		10/96		C	TEC-TEH	TEC-TEH		00104	610VS	VS5+	0.91	0.71		0	<20	P 2
70	39	10/96		C	TEC-TEH	TEC-TEH		00146	610VS	08H+	0.90	0.49		0	<20	P 2
82	39	10/96		C	TEC-TEH	TEC-TEH		00105	610VS	VS3-	0.76	0.56		0	<20	P 2
110	39	10/96		H	07H-VS3	07H-VS3		00188	580HP	BW1-	1.79	0.46		0	<20	P 3
112	39	10/96		H	07H-VS3	07H-VS3		00189	580HP	BW1-	1.81	0.76		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00189	580HP	BW1+	1.98	0.75		0	<20	P 3
114	39	10/96		C	TEC-TEH	TEC-TEH		00035	610VS	BW1-	1.88	0.34		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00188	580HP	BW1-	1.78	0.71		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00188	580HP	BW1+	1.91	0.52		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00035	610VS	VS2+	0.76	0.69		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00038	610VS	VS2+	0.87	0.68		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00188	580HP	VS2+	0.99	0.76		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00188	580HP	VS3-	0.82	0.65		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00038	610VS	VS3-	0.70	0.53		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00038	610VS	VS5+	0.93	0.40		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00038	610VS	VS6-	0.90	0.81		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00035	610VS	VS6-	0.79	0.71		0	<20	P 2
116	39	10/96		H	07H-VS3	07H-VS3		00189	580HP	09H+	0.44	0.95		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00036	610VS	09H+	0.94	0.42		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00189	580HP	09H+	1.49	0.66		0	<20	P 3
1	40	10/96		C	07C-07H	07C-BW2		00175	560HP						OBS	
17	40	10/96		C	TEC-TEH	TEC-TEH		00092	610VS	VS4-	0.91	0.43		0	<20	P 2
57	40	10/96		C	TEC-TEH	TEC-TEH		00104	610VS	06H+	0.95	0.41		0	<20	P 2
59	40	10/96		C	TEC-TEH	TEC-TEH		00105	610VS	01H+	8.03	5.86		10	BLI	P 1
79	40	10/96		C	TEC-TEH	TEC-TEH		00105	610VS	VS3-	0.75	0.62		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00105	610VS	VS3+	0.85	0.66		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00105	610VS	VS5+	0.88	0.58		0	<20	P 2
81	40	10/96		C	TEC-TEH	TEC-TEH		00104	610VS	VS3+	1.04	0.72		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00104	610VS	VS5-	1.09	0.45		0	<20	P 2
95	40	10/96		H	07H-VS3	07H-VS3		00194	580HP	BW1+	1.92	0.53		0	<20	P 3
107	40	10/96		H	07H-VS3	08H-VS3		00188	580HP	BW1+	1.77	0.52		0	<20	P 3
109	40	10/96		H	07H-VS3	08H-VS3		00189	580HP	BW1+	2.08	0.81		0	<20	P 3
		10/96		H	07H-VS3	08H-VS3		00189	580HP	VS3-	0.82	0.52		0	<20	P 3
111	40	10/96		H	07H-VS3	07H-VS3		00194	580HP	VS2-	0.84	0.80		0	<20	P 3
113	40	10/96		H	07H-VS3	07H-VS3		00189	580HP	BW1+	2.00	1.10		0	<20	P 3



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STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	TEC-TEH			00035	610VS	VS5+	0.85	1.56	0	24	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS5+	0.88	1.44	0	26	P 2	
115	40	10/96		H	07H-VS3	07H-VS3			00188	580HP	BW1-	1.36	0.95	0	20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	1.80	0.54	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	BW1+	2.00	0.54	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00188	580HP	BW1+	2.19	1.12	0	23	P 3	
117	40	10/96		H	07H-VS3	07H-VS3			00189	580HP	09H+	1.56	0.80	0	<20	P 3	
38	41	10/96		C	TEC-TEH	TEC-TEH			00095	610VS	07C+	3.23	0.53	145	<20	1	
		10/96		C	07C-BW2	07C-BW2	1		00195	580HP	07C+	3.23	0.54	.3	SVI	P 2	
		10/96		C	07C-BW2	07C-BW2	1		00195	580HP	07C+	3.23	0.72	.3	SVI	P 3	
		10/96		C	07C-BW2	07C-BW2	1		00195	580HP	07C+	3.23	179.0	35	SVI	P 3	
58	41	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW1+	2.25	0.37	0	<20	P 2	
66	41	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5-	0.71	1.16	0	23	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.74	0.71	0	<20	P 2	
70	41	10/96		C	TEC-TEH	TEC-TEH			00146	610VS	08H+	1.01	0.47	0	<20	P 2	
		10/96		C	TEC-TEH	TSC-TEH			00105	610VS	VS5-	0.75	1.14	0	23	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS5-	0.74	0.90	0	22	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS5+	0.74	1.10	0	25	P 2	
		10/96		C	TEC-TEH	TSC-TEH			00105	610VS	VS5+	0.75	1.07	0	22	P 2	
82	41	10/96		C	TEC-TEH	TSC-TEH			00105	610VS	VS3-	0.80	0.41	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS3-	0.63	0.41	0	<20	P 2	
104	41	10/96		H	07H-VS3	07H-VS3			00189	580HP	BW1+	1.74	1.27	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	BW1+	2.05	0.42	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	2.09	0.45	0	<20	P 2	
106	41	10/96		H	07H-VS3	07H-VS3			00194	580HP	BW1+	2.00	0.66	0	<20	P 3	
110	41	10/96		H	07H-VS3	07H-VS3			00188	580HP	BW1+	1.82	0.63	0	<20	P 3	
112	41	10/96		H	07H-VS3	07H-VS3			00189	580HP	BW1+	1.77	0.65	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS2+	1.05	0.55	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00189	580HP	VS2+	1.05	1.04	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	VS2+	1.13	0.58	0	<20	P 2	
114	41	10/96		H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.92	0.50	0	<20	P 3	
116	41	10/96		H	07H-VS3	07H-VS3			00195	580HP	BW1+	1.96	1.90	0	28	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	BW1+	2.05	0.95	0	24	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	2.09	1.03	0	25	P 2	
39	42	10/96		C	TEC-TEH	TEC-TEH			00095	610VS	BW1+	1.99	0.45	0	<20	P 2	
51	42	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	05C+	17.15	2.81	8	BLI	P 1	
67	42	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.91	0.58	0	<20	P 2	
81	42	10/96		C	TEC-TEH	TEC-TEH			00104	610VS	VS3+	1.01	0.64	0	<20	P 2	
103	42	10/96		H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.78	0.57	0	<20	P 3	
109	42	10/96		H	07H-VS3	07H-VS3			00189	580HP	BW1+	1.76	0.53	0	<20	P 3	
111	42	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	1.77	0.35	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.80	0.70	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	BW1+	1.85	0.37	0	<20	P 2	
117	42	10/96		H	07H-VS3	07H-VS3			00195	580HP	BW1-	1.75	0.43	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3			00195	580HP	BW1+	1.74	1.03	0	<20	P 3	



CUMULATIVE REPORT  
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STEAM GENERATOR : 11  
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SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	TEC-TEH			00046	610VS	BW1+	1.75	0.64	0	<20	P 2	
121	42	10/96		C	TEC-TEH	TEC-TEH			00046	610VS	BW1+	2.00	0.31	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00289	580HP	BW1+	2.12	0.95	0	<20	P 3	
50	43	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	07H+	1.04	0.59	0	<20	P 2	
66	43	10/96		C	TEC-TEH	TEC-TEH			00105	610VS	08H-	1.20	0.61	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	BW1-	1.80	0.27	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00105	610VS	VS5+	0.88	0.64	0	<20	P 2	
98	43	10/96		C	TEC-TEH	TEC-TEH			00035	610VS	VS2-	0.81	0.60	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00188	580HP	VS2-	0.76	0.60	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00038	610VS	VS2-	0.74	0.59	0	<20	P 2	
120	43	10/96		H	07H-VS3	07H-VS3			00289	580HP	BW1-	2.02	0.68	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00045	610VS	BW1+	2.14	0.43	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00289	580HP	BW1+	2.25	1.33	0	23	P 3	
124	43	10/96		C	TEC-TEH	TEC-TEH			00045	610VS	BW1-	2.01	0.25	0	<20	P 2	
130	43	10/96		C	TEC-TEH	TEC-TEH			00073	610VS	03C+	0.85	0.52	0	<20	P 2	
37	44	10/96		C	TEC-TEH	TEC-TEH			00094	610VS	BW1+	2.11	0.35	0	<20	P 2	
49	44	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	BW1+	2.00	0.39	0	<20	P 2	
65	44	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	BW1+	2.00	0.64	0	<20	P 2	
69	44	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	08H+	1.08	0.35	0	<20	P 2	
95	44	10/96		H	07H-VS3	07H-VS3			00187	580HP	BW1+	1.75	0.45	0	<20	P 3	
97	44	10/96		H	07H-VS3	07H-VS3			00186	580HP	BW1+	2.18	0.42	0	<20	P 3	
111	44	10/96		H	07H-VS3	07H-VS3			00188	580HP	VS2-	0.67	0.60	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3			00188	580HP	VS2+	0.97	0.60	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS5+	0.93	0.53	0	<20	P 2	
115	44	10/96		C	TEC-TEH	TEC-TEH			00034	610VS	BW1+	1.78	0.36	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00186	580HP	BW1+	1.78	1.25	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00036	610VS	BW1+	1.91	0.40	0	<20	P 2	
119	44	10/96		C	TEC-TEH	TEC-TEH			00045	610VS	BW1-	1.96	0.29	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00293	580HP	BW1-	1.63	1.06	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3			00293	580HP	BW1+	1.78	1.02	0	<20	P 3	
121	44	10/96		H	07H-VS3	07H-VS3			00294	580HP	BW1+	1.77	0.54	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00046	610VS	BW1+	1.86	0.25	0	<20	P 2	
123	44	10/96		C	TEC-TEH	TEC-TEH			00045	610VS	BW1+	2.21	0.20	0	<20	P 2	
66	45	10/96		C	TEC-TEH	TEC-TEH			00107	610VS	08H-	1.00	0.38	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00107	610VS	VS3-	0.69	0.69	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00107	610VS	VS5-	0.74	0.86	0	<20	P 2	
68	45	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	08H+	0.95	0.75	0	<20	P 2	
74	45	10/96		C	TEC-TEH	TEC-TSH			00107	610VS	08C+	0.05	0.43	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	08C-	0.08	0.32	0	<20	P 2	
88	45	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	BW1+	2.00	0.71	0	<20	P 2	
96	45	10/96		C	TEC-TEH	TEC-TEH			00036	610VS	VS2-	0.78	0.49	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00034	610VS	VS2-	0.65	0.49	0	<20	P 2	
57	46	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	BW1+	2.00	0.26	0	<20	P 2	
69	46	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	08H+	0.95	0.35	0	<20	P 2	
83	46	10/96		C	TEC-TEH	TEC-TEH			00107	610VS	VS5+	1.06	0.61	0	<20	P 2	



## CUMULATIVE REPORT

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STEAM GENERATOR : 11  
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ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
99	46	10/96		H	07H-VS3	07H-VS3	00184	580HP	BW1-	2.09		0.42		0	<20	P 3
101	46	10/96		H	07H-VS3	07H-VS3	00185	580HP	BW1+	1.50		0.54		0	<20	P 3
109	46	10/96		H	07H-VS3	07H-VS3	00185	580HP	BW1+	1.67		0.43		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH	00035	610VS	BW1+	1.75		0.32		0	<20	P 2
123	46	10/96		H	07H-VS2	07H-VS2	00285	580HP	BW1+	1.86		0.66		0	<20	P 3
131	46	10/96		H	07H-VS3	07H-VS2	00285	580HP	08H+	19.60		0.35		0.2	SVI	P 2
		10/96		H	07H-VS3	07H-VS3	00285	580HP	08H+	19.60		0.84		0.4	SVI	P 3
		10/96		H	07H-VS3	07H-VS3	00285	580HP	08H+	19.60		160.0		26	SVI	P 3
133	46	10/96		C	TEC-TEH	TEC-TEH	00073	610VS	03C+	0.00		0.67		0	<20	P 2
66	47	10/96		H	08H-08H	08H-BW1	00217	580HP	08H-	1.13		1.43		0	23	P 3
		10/96		C	TEC-TEH	TEC-TEH	00107	610VS	08H-	0.95		0.67		0	<20	P 2
68	47	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	BW1+	2.00		0.51		0	<20	P 2
70	47	10/96		C	TEC-TEH	TEC-TEH	00107	610VS	VS5+	0.89		0.43		0	<20	P 2
78	47	10/96		C	TEC-TEH	TEC-TEH	00107	610VS	VS5-	0.76		0.84		0	<20	P 2
82	47	10/96		C	TEC-TEH	TEC-TEH	00107	610VS	VS3-	1.02		0.68		0	<20	P 2
84	47	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	VS3-	0.89		0.35		0	<20	P 2
100	47	10/96		H	07H-VS3	07H-VS3	00310	580HP	BW1+	1.77		1.23		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH	00036	610VS	BW1+	1.83		0.48		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH	00034	610VS	BW1+	1.89		0.45		0	<20	P 2
110	47	10/96		H	07H-VS3	07H-VS3	00177	580HP	BW1+	2.00		1.48		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3	00184	580HP	BW1+	2.05		0.71		0	<20	P 3
114	47	10/96		H	07H-VS3	07H-VS3	00177	580HP	BW1-	2.20		0.60		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH	00035	610VS	BW1-	1.88		0.29		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3	00177	580HP	BW1+	1.81		0.74		0	<20	P 3
116	47	10/96		H	07H-VS3	07H-VS3	00178	580HP	BW1-	1.83		0.52		0	<20	P 3
126	47	10/96		H	07H-VS3	07H-VS3	00285	580HP	BW1-	2.06		0.52		0	<20	P 3
57	48	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	BW1+	1.86		0.36		0	<20	P 2
77	48	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	VS3-	0.91		1.00		0	23	P 2
81	48	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	VS3-	0.84		0.43		0	<20	P 2
109	48	10/96		H	07H-VS3	07H-VS3	00177	580HP	BW1+	2.00		0.60		0	<20	P 3
117	48	10/96		C	TEC-TEH	TEC-TEH	00046	610VS	09C+	1.16		0.88		0	<20	P 2
121	48	10/96		C	TEC-TEH	TEC-TEH	00046	610VS	BW1+	1.94		0.25		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3	00286	580HP	BW1+	2.06		0.62		0	<20	P 3
52	49	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	BW1+	2.19		0.32		0	<20	P 2
64	49	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	BW1+	2.19		0.30		0	<20	P 2
74	49	10/96		C	TEC-TEH	TEC-TEH	00108	610VS	08H+	1.16		0.43		0	<20	P 2
78	49	10/96		C	TEC-TEH	TEC-TEH	00108	610VS	VS3+	0.96		1.09		0	22	P 2
84	49	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	VS3-	0.81		0.53		0	<20	P 2
94	49	10/96		H	07H-VS3	BW1-VS3	00145	580HP	BW1+	2.23		0.63		0	<20	P 3
120	49	10/96		H	07H-VS3	07H-VS3	00275	580HP	BW1+	1.89		0.66		0	<20	P 3
122	49	10/96		C	TEC-TEH	TEC-TEH	00046	610VS	BW1+	1.76		0.59		0	<20	P 2
		10/96		H	07H-VS2	07H-VS3	00274	580HP	BW1+	1.87		1.31		0	22	P 3
71	50	10/96		C	TEC-TEH	TEC-TEH	00108	610VS	08H+	1.01		0.43		0	<20	P 2
81	50	10/96		C	TEC-TEH	TEC-TEH	00106	610VS	VS3+	0.71		0.35		0	<20	P 2
107	50	10/96		H	07H-VS3	07H-VS3	00177	580HP	BW1+	1.70		0.59		0	<20	P 3



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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
121	50	10/96		H	07H-VS3	07H-VS3			00274	580HP	BW1+	1.49	0.37		0<20	P 3
		10/96		H	07H-VS3	07H-VS3			00274	580HP	VS2-	0.82	0.67		0<20	P 3
125	50	10/96		H	07H-VS2	07H-VS2			00274	580HP	BW1+	1.73	0.84		0<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00045	610VS	BW1+	2.00	0.43		0<20	P 2
74	51	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	08H+	1.03	0.76		0<20	P 2
76	51	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS5+	0.92	0.68		0<20	P 2
78	51	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS3-	0.73	0.57		0<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS3+	0.08	0.96		0 20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS5-	0.87	0.96		0 20	P 2
98	51	10/96		C	TEC-TEH	TEC-TEH			00065	610VS	VS2+	1.02	0.37		0<20	P 2
108	51	10/96		H	07H-VS3	07H-VS3			00175	580HP	BW1+	2.01	0.72		0<20	P 3
65	52	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS3+	0.85	0.48		0<20	P 2
71	52	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS5-	0.77	0.76		0<20	P 2
79	52	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS3-	0.90	1.59		0 29	P 2
87	52	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS2-	0.76	2.02		0 33	P 2
113	52	10/96		H	07H-VS3	07H-VS3			00176	580HP	VS3-	1.00	1.10		0<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00064	610VS	VS3-	0.86	0.49		0<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00064	610VS	VS3+	0.92	0.56		0<20	P 2
		10/96		H	07H-VS3	07H-VS3			00176	580HP	VS3+	1.19	1.32		0 21	P 3
72	53	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS5+	0.96	0.53		0<20	P 2
76	53	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS5+	0.98	0.45		0<20	P 2
80	53	10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS5-	1.04	0.96		0 22	P 2
		10/96		C	TEC-TEH	TEC-TEH			00106	610VS	VS5+	0.90	1.42		0 29	P 2
82	53	10/96		C	TEC-TEH	TSC-TEH			00108	610VS	VS5+	0.67	0.27		0<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00146	610VS	VS5+	0.67	0.29		0<20	P 2
110	53	10/96		H	07H-VS3	08H-VS3			00175	580HP	VS2-	1.13	0.69		0<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00065	610VS	VS2-	0.85	0.41		0<20	P 2
120	53	10/96		H	07H-VS3	07H-VS3			00275	580HP	BW1-	1.73	0.35		0<20	P 3
9	54	10/96		C	TEC-TEH	TEC-TEH			00096	610VS	BW2-	1.76	0.37		0<20	P 2
61	54	10/96		C	TEC-TEH	TEC-TEH			00109	610VS	BW1-	2.25	0.32		0<20	P 2
63	54	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS3+	0.96	1.02		0 21	P 2
75	54	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	02C+	4.58	5.26		8 BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	02C+	1.92	5.00		8 BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	02C-	0.42	4.86		9 BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	02C-	2.98	2.11		7 BLI	P 1
79	54	10/96		C	TEC-TEH	TEC-TEH			00108	610VS	VS3-	0.94	0.57		0<20	P 2
113	54	10/96		H	07H-VS3	07H-VS3			00176	580HP	VS2-	0.63	0.58		0<20	P 3
		10/96		H	07H-VS3	07H-VS3			00176	580HP	VS2+	1.04	0.64		0<20	P 3
115	54	10/96		H	07H-VS3	BW1-VS3			00177	580HP	BW1+	2.49	0.65		0<20	P 3
117	54	10/96		H	07H-VS3	09H-VS3			00178	580HP	BW1+	1.70	0.52		0<20	P 3
36	55	10/96		C	TEC-TEH	TEC-TEH			00096	610VS	BW1+	2.00	0.24		0<20	P 2
40	55	10/96		H	TSH-TSH	TSH-TSH			00029	600HP	TSH-	3.17	1.01		.4 SVI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00029	600HP	TSH-	3.17	0.92		.4 SVI	P 3
		10/96		H	TSH-TSH	TSH-TSH			00029	600HP	TSH-	3.17	7.00		3 SVI	P 3
62	55	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	BW1+	2.03	0.42		0<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
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ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
66	55	10/96		H	VS3-VS3	BW1-VS3	1	00435	580HP	VS3-	0.81	2.91		0	36	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.78	3.68		0	43	P 2
		10/96		H	VS3-VS3	BW1-VS3	1	00435	580HP	VS3-	0.15	1.01		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.14	0.83		0	<20	P 2
68	55	10/96		C	TEC-TEH	TEC-TEH		00109	610VS	BW1-	2.20	0.33		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00109	610VS	VS3-	0.74	0.47		0	<20	P 2
78	55	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	08H+	1.06	0.62		0	<20	P 2
80	55	10/96		C	TEC-TEH	TEC-TEH		00109	610VS	08H-	0.05	0.38		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00109	610VS	BW2+	2.00	0.48		0	<20	P 2
82	55	10/96		H	VS3-VS3	VS3-VS3		00217	580HP	VS3-	1.23	2.22		0	31	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.89	1.79		0	31	P 2
		10/96		H	VS3-VS3	VS3-VS3		00217	580HP	VS3+	1.06	1.08		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3+	1.09	0.70		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS5+	1.01	0.64		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	BW2-	1.76	0.24		0	<20	P 2
94	55	10/96		C	TEC-TEH	TEC-TEH		00065	610VS	VS2+	0.97	0.65		0	<20	P 2
96	55	10/96		C	TEC-TEH	TEC-TEH		00076	610VS	VS2-	0.84	0.84		0	<20	P 2
120	55	10/96		H	07H-VS3	07H-VS3		00406	580HP	BW1+	1.78	0.76		0	<20	P 3
67	56	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	BW1-	2.10	0.25		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	BW1+	2.20	0.22		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.83	0.37		0	<20	P 2
71	56	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.88	0.35		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3+	0.80	0.61		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS5+	0.99	0.60		0	<20	P 2
75	56	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	08H+	0.98	0.51		0	<20	P 2
77	56	10/96		C	TEC-TEH	TEC-TEH		00109	610VS	VS5-	0.81	0.65		0	<20	P 2
81	56	10/96		C	TEC-TEH	TEC-TEH		00109	610VS	VS5-	0.90	0.44		0	<20	P 2
85	56	10/96		C	TEC-TEH	TEC-TEH		00109	610VS	BW1+	2.24	0.66		0	<20	P 2
89	56	10/96		H	VS2-VS2	VS2-VS2	1	00435	580HP	VS2-	0.79	1.65		0	25	P 3
		10/96		C	TEC-TEH	TEC-TEH		00109	610VS	VS3+	1.23	0.36		0	<20	P 2
109	56	10/96		H	07H-VS3	07H-VS3		00176	580HP	BW1+	1.87	0.50		0	<20	P 3
111	56	10/96		H	07H-VS3	07H-VS3		00176	580HP	VS2+	0.40	0.44		0	<20	P 3
		10/96		H	07H-VS3	BW1-VS3		00168	580HP	VS2+	0.47	0.72		0	<20	P 3
113	56	10/96		H	07H-VS3	07H-VS3		00169	580HP	BW1+	1.88	0.55		0	<20	P 3
139	56	10/96		H	07H-VS3	07H-VS3		00268	580HP	BW1-	2.15	0.49		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00268	580HP	BW1+	2.16	0.57		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00268	580HP	VS1+	0.94	0.80		0	<20	P 3
32	57	10/96		C	TEC-TEH	TEC-TEH		00096	610VS	VS4-	0.77	0.64		0	<20	P 2
46	57	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	BW1+	2.17	0.32		0	<20	P 2
66	57	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	08H-	1.47	0.72		0	<20	P 2
		10/96		H	08H-08H	08H-BW1	1	00435	580HP	08H-	1.39	1.13		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	08H-	1.02	0.94		0	20	P 2
		10/96		H	08H-08H	08H-BW1	1	00435	580HP	08H-	1.00	1.39		0	22	P 3
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3-	0.75	0.59		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS5+	1.00	0.68		314	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
68	57	10/96		C	TEC-TEH	TEC-TEH			00111	610VS	08H+	0.96	0.30		0	<20	P 2
82	57	10/96		H	VS3-VS3	VS3-VS3			00217	580HP	VS3-	0.87	1.21		0	20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS3-	0.73	1.01		0	21	P 2
		10/96		H	VS3-VS3	VS3-VS3			00217	580HP	VS3-	0.22	1.57		0	25	P 3
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS5-	0.82	2.35		0	35	P 2
		10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS5+	0.99	1.42		0	27	P 2
84	57	10/96		C	TEC-TEH	TEC-TEH			00111	610VS	VS3-	0.86	0.45		0	<20	P 2
112	57	10/96		H	07H-VS3	07H-VS3			00310	580HP	BW1+	1.59	0.62		0	<20	P 3
114	57	10/96		H	07H-VS3	07H-VS3			00309	580HP	BW1+	2.16	0.47		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00066	610VS	VS2+	0.77	0.32		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00309	580HP	VS2+	1.09	0.74		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00309	580HP	VS3+	1.00	1.50		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00066	610VS	VS3+	1.10	0.75		0	20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00066	610VS	VS5+	1.25	0.45		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00066	610VS	VS6-	0.77	1.00		0	25	P 2
118	57	10/96		H	07H-VS3	07H-VS3			00268	580HP	BW1-	2.00	0.55		0	<20	P 3
9	58	10/96		C	TEC-TEH	TEC-TEH			00096	610VS	BW2-	1.85	0.35		0	<20	P 2
59	58	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	02C+	26.56	2.54		10	BLI	1
75	58	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	BW1+	2.00	0.22		0	<20	P 2
97	58	10/96		H	07H-VS3	07H-VS3			00148	580HP	BW1+	1.79	0.51		0	<20	P 3
103	58	10/96		C	TEC-TEH	TEC-TEH			00067	610VS	VS2-	0.88	0.71		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00151	580HP	VS2-	0.77	0.82		0	<20	P 3
111	58	10/96		H	07H-VS3	07H-VS3			00168	580HP	BW1+	1.80	0.54		0	<20	P 3
143	58	10/96		H	07H-VS3	07H-VS3			00406	580HP	BW1+	1.80	0.59		0	<20	P 3
80	59	10/96		C	TEC-TEH	TEC-TEH			00111	610VS	08H+	1.05	0.31		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00111	610VS	VS3+	1.00	0.41		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00111	610VS	VS5-	0.89	0.77		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00111	610VS	VS5+	0.83	1.33		0	28	P 2
98	59	10/96		H	07H-VS3	07H-VS3			00145	580HP	BW1+	2.00	0.63		0	<20	P 3
114	59	10/96		H	07H-VS3	07H-VS3			00310	580HP	VS2+	0.09	0.49		0	<20	P 3
		10/96		C	06C-07C	06C-07C	1		00195	580HP	06C+	28.00	0.00		0	SVI	P 2
		10/96		C	06C-07C	06C-07C	1		00195	580HP	06C+	28.00	0.41		.3	SVI	P 3
		10/96		C	06C-07C	06C-07C	1		00195	580HP	06C+	28.00	0.00		47	SVI	P 3
118	59	10/96		H	07H-VS3	07H-VS3			00261	580HP	BW1-	2.00	0.49		0	<20	P 3
136	59	10/96		C	TEC-TEH	TEC-TEH			00041	610VS	VS5-	0.80	0.56		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00041	610VS	VS7-	0.92	0.64		0	<20	P 2
146	59	10/96		H	07H-VS3	07H-VS3			00266	580HP	09H-	0.20	0.78		0	<20	P 3
67	60	10/96		C	TEC-TEH	TEC-TEH			00111	610VS	TSH+	1.51	4.32		6	BLI	P 1
		10/96		H	TSH-TSH	TSH-TSH			00030	600HP	TSH+	1.72	3.77		.5	SVI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00030	600HP	TSH+	1.72	2.09		.5	SVI	P 3
		10/96		H	TSH-TSH	TSH-TSH			00030	600HP	TSH+	1.72	12.00		13	SVI	P 3
83	60	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS3+	1.05	0.57		0	<20	P 2
109	60	10/96		C	TEC-TEH	TEC-TEH			00068	610VS	VS2-	0.67	0.43		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00309	580HP	VS2-	0.65	0.62		0	<20	P 3
111	60	10/96		H	07H-VS3	07H-VS3			00168	580HP	VS2+	0.65	0.59		0	<20	P 3



**CUMULATIVE REPORT**

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STEAM GENERATOR      : 11
OUTAGE DATA SET     : CURRENT
SELECTION VARIABLES: Percent
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EXAM			EXAM EXTENT							LOCATION		VOLTS MIL DEG		% CH		CHNG
ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE							
		10/96		C	TEC-TEH	TEC-TEH		00069	610VS	VS3+	0.94	0.41		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00168	580HP	VS3+	0.95	0.88		0	<20	P 3
113	60	10/96		H	07H-VS3	07H-VS3		00169	580HP	VS2-	0.74	0.40		0	<20	P 3
115	60	10/96		H	07H-VS3	07H-VS3		00309	580HP	BW1+	1.73	0.77		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00068	610VS	BW1+	2.00	0.35		0	<20	P 2
131	60	10/96		H	07H-VS3	07H-VS3		00251	580HP	BW1+	1.88	0.97		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00251	580HP	BW1+	4.57	0.47	0.5	SAI	P 2	
		10/96		H	07H-VS3	07H-VS3		00251	580HP	BW1+	4.57	0.51	0.7	SAI	P 3	
		10/96		H	07H-VS3	07H-VS3		00251	580HP	BW1+	4.57	140.0	108	SAI	P 3	
135	60	10/96		H	07H-VS3	07H-VS3		00251	580HP	BW1+	2.21	0.45		0	<20	P 3
139	60	10/96		H	07H-VS3	07H-VS3		00251	580HP	VS1-	0.89	1.90		0	23	P 3
		10/96		C	TEC-TEH	TEC-TEH		00042	610VS	VS1-	0.66	1.58		0	28	P 2
		10/96		C	TEC-TEH	TEC-TEH		00042	610VS	VS7+	0.97	0.50		0	<20	P 2
147	60	10/96		H	07H-VS3	07H-VS3		00252	580HP	07H-	0.87	0.44		0	<20	P 3
72	61	10/96		C	TEC-TEH	TEC-TEH		00111	610VS	08H+	1.03	0.40		0	<20	P 2
78	61	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS3+	0.98	0.55		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	VS5+	1.01	0.76		0	<20	P 2
80	61	10/96		C	TEC-TEH	TEC-TEH		00111	610VS	VS3+	1.03	0.59		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00111	610VS	VS5-	1.00	1.88		0	34	P 2
		10/96		C	TEC-TEH	TEC-TEH		00111	610VS	VS5+	0.86	0.72		0	<20	P 2
86	61	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	BW1+	2.00	0.28		0	<20	P 2
102	61	10/96		C	TEC-TEH	TEC-TEH		00069	610VS	VS2-	0.38	0.66		0	<20	P 2
108	61	10/96		C	TEC-TEH	TEC-TEH		00068	610VS	VS2+	0.94	0.67		0	<20	P 2
112	61	10/96		C	TEC-TEH	TEC-TEH		00068	610VS	VS2+	0.83	0.53		0	<20	P 2
132	61	10/96		H	07H-VS3	07H-VS3		00252	580HP	08H-	0.18	0.41		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00041	610VS	VS3-	0.74	0.56		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00252	580HP	VS3-	0.69	0.91		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00252	580HP	VS3+	0.99	1.10		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00041	610VS	VS3+	1.00	0.66		0	<20	P 2
136	61	10/96		H	07H-VS3	07H-VS3		00258	580HP	BW1-	1.87	0.60		0	<20	P 3
73	62	10/96		C	TEC-TEH	TEC-TEH		00111	610VS	VS5-	0.78	0.39		0	<20	P 2
81	62	10/96		C	TEC-TEH	TEC-TEH		00111	610VS	VS5-	0.84	0.33		0	<20	P 2
97	62	10/96		H	07H-VS3	07H-VS3		00159	580HP	08H+	0.88	0.36		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00068	610VS	08H+	0.91	0.36		0	<20	P 2
99	62	10/96		C	TEC-TEH	TEC-TEH		00069	610VS	VS2-	0.92	0.34		0	<20	P 2
117	62	10/96		H	07H-VS3	07H-VS3		00310	580HP	BW1+	1.69	1.43		0	22	P 3
		10/96		C	TEC-TEH	TEC-TEH		00042	610VS	BW1+	1.83	0.75		0	<20	P 2
119	62	10/96		C	TEC-TEH	TEC-TEH		00042	610VS	BW1-	1.92	0.37		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00252	580HP	BW1-	1.78	0.94		0	<20	P 3
125	62	10/96		H	07H-VS2	07H-VS3		00257	580HP	BW1+	1.82	0.72		0	<20	P 3
131	62	10/96		H	07H-VS3	07H-VS5		00258	580HP	BW1+	1.72	0.71		0	<20	P 3
143	62	10/96		H	07H-VS3	07H-VS3		00252	580HP	09H+	0.94	0.60		0	<20	P 3
32	63	10/96		C	TEC-TEH	TEC-TEH		00098	610VS	VS4-	1.35	0.40		0	<20	P 2
46	63	10/96		C	TEC-TEH	TEC-TEH		00110	610VS	02C+	8.09	2.31		8	BLI	P 1
		10/96		C	TEC-TEH	TEC-TEH		00110	610VS	02C+	2.53	4.01		11	BLI	P 1

**ROCKRIDGE TECHNOLOGIES**



## CUMULATIVE REPORT

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STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
74	63	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS3+	0.88	0.68		0	<20	P 2
82	63	10/96		C	TEC-TEH	TEC-TEH			00110	610VS	VS5-	0.81	1.06		0	22	P 2
92	63	10/96		H	07H-VS3	07H-VS3			00159	580HP	BW1+	1.76	0.42		0	<20	P 3
94	63	10/96		C	TEC-TEH	TEC-TEH			00069	610VS	08H+	0.94	0.32		0	<20	P 2
98	63	10/96		H	07H-VS3	07H-VS3			00160	580HP	08H+	0.92	0.88		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00069	610VS	08H+	0.94	0.65		0	<20	P 2
102	63	10/96		H	07H-VS3	07H-VS2			00158	580HP	VS2-	0.97	0.50		0	<20	P 3
116	63	10/96		H	07H-VS3	07H-VS3			00310	580HP	BW1+	1.49	0.45		0	<20	P 3
118	63	10/96		H	07H-VS3	07H-VS3			00251	580HP	BW1-	2.04	0.78		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00042	610VS	BW1-	1.77	0.36		0	<20	P 2
120	63	10/96		H	07H-VS3	07H-VS5			00258	580HP	BW1+	1.79	0.98		0	20	P 3
126	63	10/96		H	07H-VS3	08H-VS3			00251	580HP	BW1+	2.17	0.62		0	<20	P 3
132	63	10/96		C	TEC-TEH	TEC-TEH			00041	610VS	BW1+	2.00	0.69		0	<20	P 2
		10/96		H	07H-VS3	BW1-VS3			00250	580HP	BW1+	2.00	1.24		0	<20	P 3
148	63	10/96		H	07H-VS3	07H-VS3			00250	580HP	BW1+	2.09	0.64		0	<20	P 3
103	64	10/96		C	TEC-TEH	TEC-TEH			00069	610VS	08H+	0.97	0.35		0	<20	P 2
107	64	10/96		H	07H-VS3	07H-VS3			00160	580HP	VS2-	0.73	0.52		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00069	610VS	VS3-	0.53	0.35		0	<20	P 2
111	64	10/96		C	TEC-TEH	TEC-TEH			00069	610VS	08H+	0.90	0.49		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00168	580HP	08H+	0.91	1.00		0	<20	P 3
117	64	10/96		H	07H-VS3	07H-VS3			00310	580HP	BW1+	2.00	0.99		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00042	610VS	BW1+	2.04	0.52		0	<20	P 2
123	64	10/96		H	07H-VS2	07H-VS3			00244	580HP	BW1-	1.62	1.04		0	20	P 3
129	64	10/96		H	07H-VS3	07H-VS3			00245	580HP	BW1+	2.02	0.93		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00041	610VS	BW1+	2.06	0.34		0	<20	P 2
143	64	10/96		H	07H-VS3	07H-VS3			00250	580HP	BW1-	2.06	0.64		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00250	580HP	BW1+	2.01	0.53		0	<20	P 3
96	65	10/96		C	TEC-TEH	TEC-TEH			00068	610VS	08H+	0.97	0.83		0	20	P 2
116	65	10/96		H	07H-VS3	07H-VS3			00169	580HP	BW1+	2.25	0.59		0	<20	P 3
118	65	10/96		H	07H-VS3	07H-VS3			00243	580HP	BW1+	1.88	1.99		0	22	P 3
		10/96		C	TEC-TEH	TEC-TEH			00042	610VS	BW1+	1.89	1.04		0	22	P 2
146	65	10/96		H	07H-VS3	07H-VS3			00244	580HP	VS1+	0.75	1.17		0	22	P 3
		10/96		C	TEC-TEH	TEC-TEH			00041	610VS	VS1+	0.85	0.83		0	<20	P 2
87	66	10/96		C	TEC-TEH	TEC-TEH			00141	610LF	VS2-	0.96	0.35		0	<20	P 2
89	66	10/96		C	TEC-TEH	TEC-TEH			00140	610VS	VS3+	1.03	0.36		0	<20	P 2
105	66	10/96		H	VS2-VS2	VS2-VS2			00158	580HP	VS2-	0.89	2.46		0	34	P 3
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	VS2-	0.86	2.07		0	36	P 2
		10/96		H	VS2-VS2	VS2-VS2			00158	580HP	VS2+	0.59	1.53		0	24	P 3
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	VS2+	0.76	0.56		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	VS6-	0.83	0.80		0	20	P 2
131	66	10/96		H	07H-VS3	07H-VS5			00321	580HP	BW1+	1.76	0.91		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00047	610VS	BW1+	2.22	0.39		0	<20	P 2
133	66	10/96		C	TEC-TEH	TEC-TEH			00048	610VS	VS7-	0.62	0.65		0	<20	P 2
145	66	10/96		H	07H-VS3	07H-VS3			00320	580HP	09H+	0.85	0.84		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00048	610VS	09H+	1.00	0.66		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
80	67	10/96		C	TEC-TEH	TEC-TEH			00140	610VS	VS5-	0.99	0.76		0	<20	P 2
98	67	10/96		H	08H-08H	08H-08H			00158	580HP	08H+	0.81	0.70		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	08H+	0.95	0.61		0	<20	P 2
110	67	10/96		H	07H-VS3	07H-VS3			00225	580HP	VS2-	0.71	0.70		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	VS2-	0.03	0.66		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00225	580HP	VS2-	0.02	1.26		0	21	P 3
		10/96		H	07H-VS3	07H-VS3			00225	580HP	VS3-	0.82	1.29		0	21	P 3
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	VS3-	0.73	1.16		0	22	P 2
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	VS3+	0.98	0.92		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00225	580HP	VS3+	1.00	1.51		0	24	P 3
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	VS5+	1.01	0.71		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00030	610VS	VS6-	0.76	0.55		0	<20	P 2
116	67	10/96		C	TEC-TEH	TEC-TEH			00029	610VS	VS3+	0.90	1.39		0	29	P 2
		10/96		H	07H-VS3	07H-VS3			00222	580HP	VS3+	0.93	2.13		0	32	P 3
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	VS5+	0.96	0.39		0	<20	P 2
124	67	10/96		H	07H-VS2	07H-VS2			00417	580HP	09H+	0.93	0.97		0	<20	P 3
132	67	10/96		C	TEC-TEH	TEC-TEH			00048	610VS	VS7-	0.51	1.01		0	20	P 2
152	67	10/96		C	TEC-TEH	TEC-TEH			00073	610VS	BW1+	2.07	0.52		0	<20	P 2
43	68	10/96		C	TEC-TEH	TEC-TEH			00099	610VS	VS4-	0.97	0.44		0	<20	P 2
89	68	10/96		C	TEC-TEH	TEC-TEH			00140	610VS	VS5+	0.83	0.33		0	<20	P 2
125	68	10/96		H	07H-VS2	07H-VS3			00322	580HP	BW1-	2.06	0.67		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00048	610VS	BW1-	1.87	0.59		0	<20	P 2
133	68	10/96		C	TEC-TEH	TEC-TEH			00048	610VS	VS7-	0.33	0.80		0	<20	P 2
147	68	10/96		C	TEC-TEH	TEC-TEH			00047	610VS	VS3+	0.91	0.29		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00047	610VS	VS5+	0.99	0.34		0	<20	P 2
52	69	10/96		H	TSH-TSH	TSH-TSH			00031	610HP	TSH-	0.17	0.45		.4	MCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00031	610HP	TSH-	0.17	1.19		.3	MCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00031	610HP	TSH-	0.17	3.00		76	MCI	P 4
116	69	10/96		H	07H-VS3	07H-VS3			00222	580HP	BW1+	2.04	0.70		0	<20	P 3
124	69	10/96		H	07H-VS2	BW1-VS2			00322	580HP	BW1+	2.02	0.66		0	<20	P 3
132	69	10/96		H	TSH-TSH	TSH-TSH			00073	600HP	TSH-	0.26	0.39		.41	SCI	P 2
		10/96		H	TSH-TSH	TSH-TSH			00073	600HP	TSH-	0.26	1.36		.20	SCI	P 4
		10/96		H	TSH-TSH	TSH-TSH			00073	600HP	TSH-	0.26	18.00		28	SCI	P 4
146	69	10/96		C	TEC-TEH	TEC-TEH			00048	610VS	VS7-	0.77	0.52		0	<20	P 2
148	69	10/96		H	07H-VS3	07H-VS3			00322	580HP	BW1+	1.75	1.02		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00047	610VS	BW1+	2.14	0.49		0	<20	P 2
71	70	10/96		C	TEC-TEH	TEC-TEH			00141	610LF	VS3+	0.81	0.50		0	<20	P 2
127	70	10/96		C	02C-03C	02C-03C	1		00194	580HP	02C+	7.85	0.00		0	SVI	P 2
		10/96		C	02C-03C	02C-03C	1		00194	580HP	02C+	7.85	0.38		0.2	SVI	P 3
		10/96		C	02C-03C	02C-03C	1		00194	580HP	02C+	7.85	0.00		32	SVI	P 3
135	70	10/96		C	TEC-TEH	TEC-TEH			00048	610VS	VS7+	0.50	1.04		0	20	P 2
147	70	10/96		H	07H-VS3	07H-VS3			00331	580HP	BW1+	2.20	0.54		0	<20	P 3
149	70	10/96		H	07H-VS3	07H-VS3			00322	580HP	BW1+	1.75	0.95		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00047	610VS	BW1+	2.05	0.36		0	<20	P 2
153	70	10/96		C	TEC-TEH	TEC-TEH			00073	610VS	BW1+	2.23	0.30		0	<20	P 2



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
100	71	10/96			C	TEC-TEH	TEC-TEH		00029	610VS	VS2-	0.87	0.47		0	<20	P 2
116	71	10/96			C	TEC-TEH	TEC-TEH		00029	610VS	VS3+	0.91	0.37		0	<20	P 2
122	71	10/96			C	TEC-TEH	TEC-TEH		00048	610VS	BW1-	1.77	0.51		0	<20	P 2
134	71	10/96			C	TEC-TEH	TEC-TEH		00048	610VS	VS7+	0.06	1.02		0	20	P 2
144	71	10/96			C	TEC-TEH	TEC-TEH		00047	610VS	BW1+	2.14	0.24		0	<20	P 2
146	71	10/96			H	07H-VS3	07H-VS3		00335	580HP	BW1+	1.79	0.64		0	<20	P 3
150	71	10/96			H	07H-VS3	08H-VS3		00331	580HP	BW1+	1.78	1.05		0	<20	P 3
		10/96			C	TEC-TEH	TEC-TEH		00073	610VS	BW1+	2.10	0.31		0	<20	P 2
79	72	10/96			C	TEC-TEH	TEC-TEH		00141	610LF	VS3-	0.91	1.14		0	22	P 2
44	73	10/96			C	TEC-TEH	TEC-TEH		00098	610VS	VS4+	1.47	0.52		0	<20	P 2
112	73	10/96			H	07H-VS3	07H-VS3		00224	580HP	08H+	0.90	0.55		0	<20	P 3
152	73	10/96			C	TEC-TEH	TEC-TEH		00073	610VS	BW2+	1.80	0.37		0	<20	P 2
115	74	10/96			C	TEC-TEH	TEC-TEH		00029	610VS	BW1+	2.01	0.13		0	<20	P 2
		10/96			H	07H-VS3	07H-VS3		00223	580HP	BW1+	2.24	0.56		0	<20	P 3
129	74	10/96			H	07H-VS3	07H-BW1		00342	580HP	BW1-	1.91	1.34		0	20	P 2
149	74	10/96			H	07H-VS3	07H-VS3		00342	580HP	BW1+	1.75	0.62		0	<20	P 3
46	75	10/96			H	07H-BW1	07H-BW1	1	00439	580HP	07H+	22.01	0.58		.7	SVI	P 2
		10/96			H	07H-BW1	07H-BW1	1	00439	580HP	07H+	22.01	1.08		.4	SVI	P 3
		10/96			H	07H-BW1	07H-BW1	1	00439	580HP	07H+	22.01	2.00		10	SVI	P 3
68	75	10/96			C	TEC-TEH	TEC-05H		00140	610VS						OBS	
92	75	10/96			H	07H-VS3	07H-VS3		00159	580HP	BW1+	1.84	0.24		0	<20	P 3
100	75	10/96			H	07H-VS3	07H-VS3		00159	580HP	BW1+	1.83	0.44		0	<20	P 3
106	75	10/96			C	TEC-TEH	TEC-TEH		00030	610VS	08H+	0.99	0.40		0	<20	P 2
150	75	10/96			H	07H-VS3	07H-VS3		00350	580HP	BW1+	1.91	0.71		0	<20	P 3
154	75	10/96			C	TEC-TEH	TEC-TEH		00071	610VS	BW2-	1.76	0.56		0	<20	P 2
156	75	10/96			C	TEC-TEH	TEC-TEH		00072	610VS	BW1-	1.76	0.77		0	<20	P 2
		10/96			C	TEC-TEH	TEC-TEH		00072	610VS	BW2-	1.90	0.86		0	<20	P 2
83	76	10/96			C	TEC-TEH	TEC-TEH		00142	610VS	VS3+	1.10	0.83		0	20	P 2
131	76	10/96			C	TEC-TEH	TEC-TEH		00049	610VS	VS3+	0.97	0.54		0	<20	P 2
		10/96			H	07H-VS3	07H-VS3		00349	580HP	VS3+	0.98	0.95		0	<20	P 3
26	77	10/96			H	03H-04H	03H-04H	5	00436	580HP	03H+	3.45	0.22		0.2	SVI	P 2
		10/96			H	03H-04H	03H-04H	5	00436	580HP	03H+	3.45	0.32		0.2	SVI	P 3
		10/96			H	03H-04H	03H-04H	5	00436	580HP	03H+	3.45	113.0		116	SVI	P 3
46	77	10/96			C	TEC-TEH	TEC-TEH		00142	610VS	BW1+	14.96	4.73		2	BLI	P 1
104	77	10/96			C	TEC-TEH	TEC-TEH		00029	610VS	BW1+	1.94	0.31		0	<20	P 2
114	77	10/96			H	07H-VS3	07H-VS3		00223	580HP	BW1+	1.83	1.03		0	<20	P 3
116	77	10/96			C	TEC-TEH	TEC-TEH		00029	610VS	09H-	0.26	0.89		0	21	P 2
		10/96			H	07H-VS3	07H-VS3		00222	580HP	09H-	0.11	1.77		0	28	P 3
128	77	10/96			H	07H-VS3	07H-VS3		00420	580HP	BW1+	1.40	0.55		0	<20	P 3
134	77	10/96			H	07H-VS3	07H-VS3		00349	580HP	BW1+	6.38	0.00		0	SAI	P 2
		10/96			H	07H-VS3	07H-VS3		00349	580HP	BW1+	6.38	0.71		0.3	SAI	P 3
		10/96			H	07H-VS3	07H-VS3		00349	580HP	BW1+	6.38	0.00		67	SAI	P 3
144	77	10/96			H	07H-VS3	07H-VS3		00350	580HP	BW1+	1.74	1.28		0	20	P 3
		10/96			C	TEC-TEH	TEC-TEH		00049	610VS	BW1+	1.75	0.27		0	<20	P 2
57	78	10/96			C	TEC-TEH	TEC-TEH		00143	610LF	VS5-	0.81	0.44		0	<20	P 2



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
65	78	10/96		H	TSH-TSH	TSH-TSH	00035	600HP	TSH-	0.14		0.21		.4	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH	00035	600HP	TSH-	0.14		0.69		.5	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH	00035	600HP	TSH-	0.14		14.00		35	SCI	P 4	
71	78	10/96		H	BW1-VS3	BW1-VS3	1	00435	580HP	BW1+	26.84	0.28		0.1	SVI	P 2	
		10/96		H	BW1-VS3	BW1-VS3	1	00435	580HP	BW1+	26.84	0.65		0.2	SVI	P 3	
		10/96		H	BW1-VS3	BW1-VS3	1	00435	580HP	BW1+	26.84	155.0		84	SVI	P 3	
111	78	10/96		H	07H-VS3	07H-VS3		00225	580HP	08H+	1.00	0.42		0.2	SVI	P 2	
		10/96		H	07H-VS3	07H-VS3		00225	580HP	08H+	1.00	0.91		0.2	SVI	P 3	
		10/96		H	07H-VS3	07H-VS3		00225	580HP	08H+	1.00	159.0		133	SVI	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00030	610VS	08H+	1.04	0.53		0	<20	P 2	
113	78	10/96		H	07H-VS3	07H-VS3		00224	580HP	09H-	0.10	0.64		0	<20	P 3	
117	78	10/96		C	TEC-TEH	TEC-TEH		00051	610VS	BW1+	2.13	0.26		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00222	580HP	BW1+	2.13	0.83		0	<20	P 3	
149	78	10/96		H	07H-VS3	09H-VS3		00357	580HP	BW1+	1.85	0.50		0	<20	P 3	
157	78	10/96		C	TEC-TEH	TEC-TEH		00072	610VS	BW2-	1.75	0.37		0	<20	P 2	
40	79	10/96		C	TEC-TEH	TEC-TEH		00098	610VS	VS4-	0.84	0.31		0	<20	P 2	
62	79	10/96		H	TSH-TSH	TSH-TSH		00034	600HP	TSH+	0.00	0.15		.6	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00034	600HP	TSH+	0.00	0.79		.6	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH		00034	600HP	TSH+	0.00	176.0		65	SCI	P 4	
100	79	10/96		C	TEC-TEH	TEC-TEH		00029	610VS	VS2-	1.00	0.43		0	<20	P 2	
110	79	10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1+	3.23	0.22		0.2	SVI	P 2	
		10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1+	3.23	0.80		0.2	SVI	P 3	
		10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1+	3.23	172.0		152	SVI	P 3	
132	79	10/96		H	07H-VS3	07H-VS3		00357	580HP	BW1+	1.95	0.52		0	<20	P 3	
29	80	10/96		C	TEC-TEH	TEC-TEH		00099	610VS	BW2-	1.80	0.26		0	<20	P 2	
31	80	10/96		C	TEC-TEH	TEC-TEH		00098	610VS	BW2-	1.78	0.41		0	<20	P 2	
117	80	10/96		C	TEC-TEH	TEC-TEH		00051	610VS	BW1+	1.75	0.39		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00222	580HP	BW1+	1.86	1.02		0	<20	P 3	
123	80	10/96		H	07H-VS2	07H-VS3		00360	580HP	08H-	0.90	0.43		0	<20	P 3	
145	80	10/96		H	08H-VS3	08H-VS3		00358	580HP	09H+	27.94	0.00		0	SAI	P 2	
		10/96		H	08H-VS3	08H-VS3		00358	580HP	09H+	27.94	0.54		6.0	SAI	P 3	
		10/96		H	08H-VS3	08H-VS3		00358	580HP	09H+	27.94	0.00		42	SAI	P 3	
157	80	10/96		C	TEC-TEH	TEC-TEH		00072	610VS	BW1-	1.85	0.36		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00072	610VS	BW1+	1.94	0.56		0	<20	P 2	
82	81	10/96		C	TEC-TEH	TEC-TEH		00143	610LF	VS3+	0.89	0.73		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00143	610LF	VS5-	0.81	0.61		0	<20	P 2	
110	81	10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1+	1.91	0.83		0	<20	P 3	
112	81	10/96		H	07H-VS3	07H-VS3		00224	580HP	09H-	0.09	0.64		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00224	580HP	BW1-	1.88	0.58		0	<20	P 3	
114	81	10/96		C	TEC-TEH	TEC-TEH		00030	610VS	08H+	0.29	0.49		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00223	580HP	08H+	0.99	0.67		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00223	580HP	BW1-	1.60	0.74		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00223	580HP	BW1+	1.75	1.28		0	20	P 3	
116	81	10/96		C	TEC-TEH	TEC-TEH		00029	610VS	09H+	0.11	0.53		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00222	580HP	09H+	0.14	1.33		0	23	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 20 OF 48  
DATE: 01/01/97  
TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		H	07H-VS3	07H-VS3			00222	580HP	BW1+	1.86	0.88	0	<20	P 3	
118	81	10/96		H	07H-VS3	07H-VS3			00358	580HP	08H+	0.94	0.53	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00053	610VS	BW1+	1.83	0.43	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00358	580HP	BW1+	1.83	1.25	0	23	P 3	
120	81	10/96		C	TEC-TEH	TEC-TEH			00052	610VS	VS6+	0.91	0.33	0	<20	P 2	
134	81	10/96		H	07H-VS3	07H-VS3			00358	580HP	VS1-	0.19	0.85	0	<20	P 3	
65	82	10/96		C	06C-07C	06C-07C	1		00194	580HP	06C+	25.21	0.19	0.2	SVI	P 2	
		10/96		C	06C-07C	06C-07C	1		00194	580HP	06C+	25.21	0.40	0.2	SVI	P 3	
		10/96		C	06C-07C	06C-07C	1		00194	580HP	06C+	25.21	160.0	127	SVI	P 3	
67	82	10/96		H	TSH-TSH	TSH-TSH			00034	600HP	TSH+	0.16	0.27	.6	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH			00034	600HP	TSH+	0.16	0.29	.6	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH			00034	600HP	TSH+	0.16	188.0	87	SCI	P 4	
111	82	10/96		C	TEC-TEH	TEC-TEH			00029	610VS	BW1+	1.93	0.25	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00225	580HP	BW1+	1.96	1.15	0	20	P 3	
113	82	10/96		C	TEC-TEH	TEC-TEH			00029	610VS	BW1-	1.93	0.46	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00224	580HP	BW1-	1.80	1.65	0	<20	P 3	
117	82	10/96		H	07H-VS3	07H-VS3			00222	580HP	08H+	0.88	0.81	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00053	610VS	08H+	0.93	0.48	0	<20	P 2	
119	82	10/96		H	07H-VS3	07H-VS3			00358	580HP	08H+	0.86	0.60	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00052	610VS	08H+	0.89	0.46	0	<20	P 2	
149	82	10/96		C	TEC-TEH	TEC-TEH			00053	610VS	BW1+	1.97	0.27	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00361	580HP	BW1+	2.10	0.94	0	<20	P 3	
151	82	10/96		C	TEC-TEH	TEC-TEH			00052	610VS	VS5-	1.05	0.35	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00052	610VS	VS7+	1.02	0.68	0	<20	P 2	
157	82	10/96		C	TEC-TEH	TEC-TEH			00077	610VS	BW1+	1.82	0.44	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00077	610VS	04C-	1.03	0.29	0	<20	P 2	
40	83	10/96		C	TEC-TEH	TEC-TEH			00098	610VS	04H+	15.47	1.89	17	BLI	1	
96	83	10/96		C	05C-06C	05C-06C	1		00193	600HP	05C+	31.39	0.16	0.5	SVI	P 2	
		10/96		C	05C-06C	05C-06C	1		00193	600HP	05C+	31.39	0.38	0.5	SVI	P 3	
		10/96		C	05C-06C	05C-06C	1		00193	600HP	05C+	31.39	160.0	60	SVI	P 3	
108	83	10/96		C	TEC-TEH	TEC-TEH			00029	610VS	08H+	0.89	0.30	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	BW1+	2.00	0.25	0	<20	P 2	
110	83	10/96		C	TEC-TEH	TEC-TEH			00029	610VS	BW1+	1.76	0.74	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3			00225	580HP	BW1+	2.00	2.06	0	30	P 3	
112	83	10/96		H	07H-VS3	07H-VS2			00224	580HP	07H+	0.88	0.82	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS2			00224	580HP	08H+	0.94	1.16	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00029	610VS	09H+	0.88	0.70	0	<20	P 2	
114	83	10/96		H	07H-VS3	07H-VS3			00223	580HP	08H+	0.00	0.92	0	<20	P 3	
140	83	10/96		H	07H-VS3	07H-VS3			00372	580HP	BW1+	1.75	0.53	0	<20	P 3	
146	83	10/96		H	07H-VS3	BW1-VS3			00420	580HP	BW1+	1.84	0.90	0	<20	P 3	
148	83	10/96		H	07H-VS3	07H-VS3			00372	580HP	BW1+	1.75	0.72	0	<20	P 3	
150	83	10/96		H	07H-VS3	07H-VS3			00372	580HP	BW1+	1.75	0.75	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH			00052	610VS	BW1+	2.02	0.26	0	<20	P 2	
152	83	10/96		C	TEC-TEH	TEC-TEH			00053	610VS	BW1+	1.89	0.40	0	<20	P 2	
154	83	10/96		C	TEC-TEH	TEC-TEH			00052	610VS	VS7-	0.79	1.42	0	29	P 2	



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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 21 OF 48  
DATE: 01/01/97  
TIME: 09:28:41

		EXAM			EXAM EXTENT													
ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG		
156	83	10/96		C	TEC-TEH	TEC-TEH		00071	610VS	VS1+	0.69	0.83		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00071	610VS	VS3+	0.90	0.54		0	<20	P 2		
35	84	10/96		C	TEC-TEH	TEC-TEH		00099	610VS	BW2-	1.76	0.49		0	<20	P 2		
81	84	10/96		C	TEC-TEH	TEC-TEH		00144	610VS	VS3+	0.98	0.55		0	<20	P 2		
111	84	10/96		C	TEC-TEH	TEC-TEH		00029	610VS	BW1-	2.17	0.37		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1-	1.93	1.19		0	20	P 3		
		10/96		H	07H-VS3	07H-VS3		00225	580HP	BW1+	1.92	0.90		0	<20	P 3		
117	84	10/96		H	07H-VS3	07H-VS3		00222	580HP	09H+	1.70	1.06		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00053	610VS	09H+	1.74	0.46		0	<20	P 2		
119	84	10/96		H	07H-VS3	07H-VS3		00367	580HP	08H+	0.78	0.60		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00052	610VS	08H+	0.90	0.38		0	<20	P 2		
121	84	10/96		H	07H-VS3	07H-VS3		00368	580HP	08H+	1.02	0.71		0	<20	P 3		
137	84	10/96		H	07H-VS3	07H-VS3		00368	580HP	VS1-	1.08	0.59		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00053	610VS	VS1-	0.83	0.42		0	<20	P 2		
96	85	10/96		C	TEC-TEH	TEC-TEH		00029	610VS	04H+	0.89	0.33		0	<20	P 2		
110	85	10/96		H	07H-VS3	07H-VS3		00223	580HP	08H+	0.94	0.63		0	<20	P 3		
140	85	10/96		H	07H-VS3	07H-VS3		00372	580HP	BW1+	1.75	0.77		0	<20	P 3		
142	85	10/96		C	TEC-TEH	TEC-TEH		00054	610VS	VS3-	0.79	0.38		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00371	580HP	VS3+	0.65	1.28		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00054	610VS	VS3+	0.97	0.56		0	<20	P 2		
35	86	10/96		C	TEC-TEH	TEC-TEH		00099	610VS	BW2-	1.81	0.33		0	<20	P 2		
37	86	10/96		C	TEC-TEH	TEC-TEH		00098	610VS	BW1-	1.97	0.37		0	<20	P 2		
113	86	10/96		H	07H-VS3	07H-VS3		00222	580HP	BW1+	1.73	1.47		0	25	P 3		
115	86	10/96		H	07H-VS3	07H-VS3		00223	580HP	BW1+	1.84	0.97		0	<20	P 3		
121	86	10/96		H	07H-VS3	09H-VS3		00376	580HP	VS1-	0.95	1.07		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00055	610VS	VS1-	0.89	0.43		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00379	580HP	VS2-	0.78	1.01		0	<20	P 3		
125	86	10/96		H	07H-VS2	07H-VS2		00379	580HP	09H+	0.86	1.16		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00055	610VS	09H+	1.04	0.66		0	<20	P 2		
127	86	10/96		H	07H-VS3	07H-VS3		00375	580HP	BW1+	1.90	0.24	0.6	SAI	P 2			
		10/96		H	07H-VS3	07H-VS3		00375	580HP	BW1+	1.90	0.45	0.6	SAI	P 3			
		10/96		H	07H-VS3	07H-VS3		00375	580HP	BW1+	1.90	31.00	34	SAI	P 3			
153	86	10/96		C	TEC-TEH	TEC-TEH		00055	610VS	BW1+	2.00	0.27		0	<20	P 2		
159	86	10/96		C	TEC-TEH	TEC-TEH		00072	610VS	09H-	0.96	0.50		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00072	610VS	BW2-	1.75	0.46		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00072	610VS	02C+	0.86	1.49		0	25	P 2		
112	87	10/96		H	07H-VS3	07H-VS3		00233	580HP	BW1+	2.00	0.52		0	<20	P 3		
116	87	10/96		H	07H-VS3	06H-VS3		00233	580HP	08H+	0.74	0.49		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00031	610VS	08H+	0.99	0.68		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00031	610VS	09H-	1.20	1.16		0	26	P 2		
		10/96		H	07H-VS3	06H-VS3		00233	580HP	09H-	0.77	1.71		0	28	P 3		
122	87	10/96		H	07H-VS2	07H-VS2		00378	580HP	07H-	0.93	0.43		0	<20	P 3		
37	88	10/96		C	TEC-TEH	TEC-TEH		00165	610VS	BW1-	2.20	0.42		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00165	610VS	BW2-	1.75	0.34		0	<20	P 2		
61	88	10/96		H	TSH-TSH	TSH-TSH		00036	600HP	TSH-	0.28	0.19		.5	SCI	P 2		



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 22 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	EXAM	EXAM EXTENT	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
	10/96	H TSH-TSH TSH-TSH		00036	600HP TSH-	0.28	0.61	.4	SCI	P 4	
	10/96	H TSH-TSH TSH-TSH		00036	600HP TSH-	0.28	170.0	27	SCI	P 4	
65	88	10/96	H TSH-TSH TSH-TSH		00036	600HP TSH-	0.13	0.35	.4	SCI	P 2
	10/96	H TSH-TSH TSH-TSH		00036	600HP TSH-	0.13	0.63	.2	SCI	P 4	
	10/96	H TSH-TSH TSH-TSH		00036	600HP TSH-	0.13	156.0	44	SCI	P 4	
67	88	10/96	H TSH-TSH TSH-TSH		00037	600HP TSH-	3.90	3.40	0.9	SVI	P 2
	10/96	H TSH-TSH TSH-TSH		00037	600HP TSH-	3.90	3.41	0.9	SVI	P 3	
	10/96	H TSH-TSH TSH-TSH		00037	600HP TSH-	3.90	10.00	17	SVI	P 3	
111	88	10/96	H 07H-VS3 07H-VS3		00232	580HP BW1+	2.06	1.17	0	22	P 3
117	88	10/96	C TEC-TEH TEC-TEH		00055	610VS 09H-	1.20	1.08	0	<20	P 2
	10/96	H 07H-VS3 07H-VS3		00306	580HP 09H-	0.96	1.73	0	27	P 3	
	10/96	H 07H-VS3 07H-VS3		00306	580HP BW1+	1.99	0.95	0	<20	P 3	
121	88	10/96	C TEC-TEH TEC-TEH		00055	610VS 08H+	0.94	0.54	0	<20	P 2
	10/96	H 07H-VS3 07H-VS3		00420	580HP 08H+	0.97	1.20	0	22	P 3	
	10/96	C TEC-TEH TEC-TEH		00055	610VS VS1-	0.98	0.35	0	<20	P 2	
	10/96	H 07H-VS3 07H-VS3		00420	580HP VS1-	0.96	0.81	0	<20	P 3	
123	88	10/96	H 07H-VS2 07H-VS2		00389	580HP VS1-	0.66	1.28	0	<20	P 3
125	88	10/96	H 07H-VS2 07H-VS1		00386	580HP 08H+	0.82	1.31	0	24	P 3
	10/96	C TEC-TEH TEC-TEH		00055	610VS 08H+	0.97	0.60	0	<20	P 2	
127	88	10/96	H 07H-VS3 07H-VS3		00420	580HP BW1+	1.62	0.59	0	<20	P 3
135	88	10/96	C TEC-TEH TEC-TEH		00054	610VS TSH+	10.94	9.45	17	BLI	P 1
	10/96	C TEC-TEH TEC-TEH		00054	610VS 01H+	10.14	3.24	4	BLI	P 1	
	10/96	C TEC-TEH TEC-TEH		00054	610VS 01H+	10.52	2.26	4	BLI	P 1	
	10/96	C TEC-TEH TEC-TEH		00054	610VS 02H+	37.77	2.82	6	BLI	P 2	
	10/96	C TEC-TEH TEC-TEH		00054	610VS 04H+	24.67	4.67	4	BLI	P 1	
	10/96	H 07H-VS3 07H-VS3		00420	580HP VS1+	0.81	0.59	0	<20	P 3	
	10/96	C TEC-TEH TEC-TEH		00054	610VS 02C+	6.51	1.64	3	BLI	P 1	
139	88	10/96	H 07H-VS3 07H-VS3		00390	580HP BW1+	1.88	0.42	0	<20	P 3
159	88	10/96	C TEC-TEH TEC-TEH		00072	610VS BW1-	1.75	0.28	0	<20	P 2
82	89	10/96	C TEC-TEH TEC-TEH		00165	610VS VS3+	0.91	0.46	0	<20	P 2
112	89	10/96	H 07H-VS3 07H-VS3		00233	580HP BW1+	2.10	0.74	0	<20	P 3
114	89	10/96	H 07H-VS3 07H-VS3		00232	580HP BW1+	2.03	0.97	0	<20	P 3
118	89	10/96	H 07H-VS3 07H-VS3		00386	580HP BW1+	1.75	1.12	0	21	P 3
120	89	10/96	H 07H-VS3 07H-VS3		00420	580HP 09H-	0.19	0.49	0	<20	P 3
128	89	10/96	H 07H-VS3 07H-VS3		00420	580HP 09H+	0.71	0.76	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH		00055	610VS 09H+	1.01	0.61	0	<20	P 2	
132	89	10/96	C TEC-TEH TEC-TEH		00055	610VS BW1+	2.00	0.20	0	<20	P 2
	10/96	H 07H-VS3 07H-VS3		00390	580HP BW1+	2.25	0.54	0	<20	P 3	
134	89	10/96	H 07H-VS3 09H-09H		00420	580HP 09H-	0.88	0.89	0	<20	P 3
	10/96	H 07H-VS3 09H-VS3		00386	580HP 09H-	0.79	0.68	0	<20	P 3	
	10/96	H 07H-VS3 09H-VS3		00386	580HP VS1+	0.80	0.66	0	<20	P 3	
	10/96	C TEC-TEH TEC-TEH		00054	610VS VS3-	0.88	0.58	0	<20	P 2	
	10/96	H 07H-VS3 09H-VS3		00386	580HP VS3-	0.68	1.13	0	21	P 3	
	10/96	H 07H-VS3 09H-VS3		00386	580HP VS3+	0.87	2.49	0	36	P 3	
	10/96	C TEC-TEH TEC-TEH		00054	610VS VS3+	0.96	2.05	0	33	P 2	

ROCKRIDGE TECHNOLOGIES



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 23 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	LIN	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
			10/96		C	TEC-TEH	TEC-TEH			00054	610VS	VS5-	0.55	1.11		0	22	P 2
			10/96		C	TEC-TEH	TEC-TEH			00054	610VS	VS5+	0.97	0.36		0	<20	P 2
140	89		10/96		H	07H-VS3	07H-VS3			00390	580HP	VS3-	0.88	1.83		0	28	P 3
			10/96		C	TEC-TEH	TEC-TEH			00055	610VS	VS3-	0.74	0.96		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00390	580HP	VS3+	0.80	0.85		0	<20	P 3
142	89		10/96		H	07H-VS3	07H-VS3			00386	580HP	VS3-	1.10	0.75		0	<20	P 3
146	89		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	VS5-	0.64	0.46		0	<20	P 2
154	89		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	BW1+	1.91	0.27		0	<20	P 2
	37		10/96		C	TEC-TEH	TEC-TEH			00165	610VS	BW1-	2.25	0.26		0	<20	P 2
			10/96		C	TEC-TEH	TEC-TEH			00165	610VS	BW2-	1.77	0.38		0	<20	P 2
	59		10/96		C	07C-BW2	07C-BW2	1		00191	580HP	07C+	36.34	0.52		1.6	SVI	P 2
			10/96		H	BW2-07C	BW2-07C			00191	580HP	07C+	36.34	1.01		1.6	SVI	P 3
			10/96		H	BW2-07C	BW2-07C			00191	580HP	07C+	36.34	163.0		68	SVI	P 3
121	90		10/96		H	07H-VS3	07H-VS3			00390	580HP	VS1-	0.72	0.84		0	<20	P 3
127	90		10/96		C	TEC-TEH	TEC-TEH			00055	610VS	09H+	0.89	0.48		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00386	580HP	09H+	0.91	1.05		0	20	P 3
129	90		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	09H+	0.91	0.52		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00424	580HP	09H+	1.00	0.79		0	<20	P 3
139	90		10/96		H	07H-VS3	07H-VS3			00389	580HP	BW1-	1.75	1.07		0	<20	P 3
143	90		10/96		H	07H-VS3	07H-VS3			00386	580HP	VS1-	0.32	0.70		0	<20	P 3
153	90		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	BW1+	1.98	0.38		0	<20	P 2
112	91		10/96		H	07H-VS3	07H-VS3			00233	580HP	BW1+	1.94	0.74		0	<20	P 3
114	91		10/96		H	07H-VS3	07H-VS3			00232	580HP	BW1+	1.95	1.06		0	20	P 3
142	91		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	VS3-	0.76	0.52		0	<20	P 2
148	91		10/96		H	07H-VS3	07H-VS3			00390	580HP	BW1+	2.29	0.58		0	<20	P 3
150	91		10/96		H	07H-VS3	07H-VS3			00390	580HP	BW1+	2.09	0.78		0	<20	P 3
	85		10/96		H	04H-05H	04H-05H	1		00432	580HP	04H+	8.17	0.00		0	SVI	P 2
			10/96		H	04H-05H	04H-05H	1		00432	580HP	04H+	8.17	0.59		0.2	SVI	P 3
			10/96		H	04H-05H	04H-05H	1		00432	580HP	04H+	8.17	0.00		70	SVI	P 3
111	92		10/96		H	07H-VS3	08H-VS3			00232	580HP	08H+	0.77	0.77		0	<20	P 3
			10/96		C	TEC-TEH	TEC-TEH			00032	610VS	08H+	0.82	0.63		0	<20	P 2
149	92		10/96		H	07H-VS3	07H-VS3			00394	580HP	VS1-	0.90	0.61		0	<20	P 3
151	92		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	VS1-	0.79	0.44		0	<20	P 2
	76		10/96		C	TEC-TEH	TEC-TEH			00170	610VS	VS5-	0.79	0.32		0	<20	P 2
110	93		10/96		H	07H-VS3	07H-VS3			00236	580HP	BW1-	2.00	0.61		0	<20	P 3
112	93		10/96		H	07H-VS3	07H-VS3			00237	580HP	BW1+	2.12	0.84		0	<20	P 3
114	93		10/96		C	TEC-TEH	TEC-TEH			00032	610VS	08H+	0.75	0.45		0	<20	P 2
			10/96		H	07H-VS3	07H-VS3			00236	580HP	BW1+	1.94	1.15		0	21	P 3
120	93		10/96		H	07H-VS3	08H-09H			00424	580HP	08H+	0.58	1.10		0	<20	P 3
126	93		10/96		C	TEC-TEH	TEC-TEH			00054	610VS	BW1+	2.25	0.65		0	22	P 2
			10/96		H	07H-VS3	07H-VS3			00397	580HP	BW1+	2.40	1.72		0	20	P 3
130	93		10/96		H	07H-VS3	07H-VS3			00393	580HP	BW1-	1.84	0.74		0	<20	P 3
132	93		10/96		H	07H-VS3	07H-VS3			00394	580HP	09H+	0.86	0.58		0	<20	P 3
150	93		10/96		H	07H-VS3	07H-08H			00426	580HP	08H+	0.88	0.49		0	<20	P 3
			10/96		H	07H-VS3	08H-VS3			00398	580HP	08H+	1.15	0.67		0	<20	P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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ROW	EXAM	EXAM EXTENT	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
LINE	DATE	HEAT#	LEG	PROGRAM	ACTUAL						
152	93	10/96	C	TEC-TEH	TEC-TEH	00055 610VS VS1-	0.82	0.54	0	<20	P 2
39	94	10/96	C	TEC-TEH	TEC-TEH	00172 610VS BW1+	2.18	0.37	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH	00172 610VS BW2+	1.86	0.26	0	<20	P 2
95	94	10/96	H	06H-07H	06H-07H	5 00411 580HP 06H+	18.99	0.00	0	SVI	P 2
		10/96	H	06H-07H	06H-07H	5 00411 580HP 06H+	18.99	0.25	.3	SVI	P 3
		10/96	H	06H-07H	06H-07H	5 00411 580HP 06H+	18.99	0.00	.49	SVI	P 3
111	94	10/96	H	07H-VS3	07H-VS3	00236 580HP BW1-	1.89	0.84	0	<20	P 3
113	94	10/96	H	07H-VS3	07H-VS3	00237 580HP BW1+	1.83	1.52	0	23	P 3
121	94	10/96	H	07H-VS3	06H-VS3	00398 580HP VS1-	0.59	0.41	0	<20	P 3
125	94	10/96	C	TEC-TEH	TEC-TEH	00054 610VS 09H-	1.11	0.45	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH	00054 610VS VS2-	0.97	0.52	0	<20	P 2
		10/96	H	07H-VS2	07H-VS2	00398 580HP VS2-	0.81	0.79	0	<20	P 3
143	94	10/96	H	07H-VS3	08H-VS3	00397 580HP VS2+	1.08	0.90	0	<20	P 3
149	94	10/96	H	07H-VS3	07H-VS3	00398 580HP VS1+	1.05	0.71	0	<20	P 3
159	94	10/96	C	VS7-VS7	VS7-VS7	1 00191 580HP VS7+	1.44	3.59	0	40	P 3
		10/96	C	TEC-TEH	TEC-TEH	00072 610VS VS7+	1.46	3.47	0	40	P 2
		10/96	C	TEC-TEH	TEC-TEH	00072 610VS BW2-	1.78	0.68	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH	00072 610VS 08C-	0.23	0.76	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH	00072 610VS 02C+	0.78	1.08	0	<20	P 2
40	95	10/96	C	TEC-TEH	TEC-TEH	00172 610VS BW1-	2.20	0.50	0	<20	P 2
42	95	10/96	C	TEC-TEH	TEC-TEH	00171 610VS BW1-	2.04	0.43	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH	00171 610VS VS4-	0.95	0.97	0	23	P 2
		10/96	C	TEC-TEH	TEC-TEH	00171 610VS VS4+	0.93	0.72	0	<20	P 2
46	95	10/96	C	TEC-TEH	TEC-TEH	00171 610VS VS4+	1.10	0.88	0	21	P 2
62	95	10/96	H	TSH-TSH	TSH-TSH	00037 600HP TSH+	0.18	0.61	0.9	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00037 600HP TSH+	0.18	0.79	0.9	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00037 600HP TSH+	0.18	71.00	24	SCI	P 4
112	95	10/96	H	07H-VS3	07H-VS3	00237 580HP BW1+	1.86	0.79	0	<20	P 3
114	95	10/96	H	07H-VS3	07H-VS3	00236 580HP BW1+	1.74	0.58	0	<20	P 3
122	95	10/96	C	TEC-TEH	TEC-TEH	00054 610VS 09H+	0.91	0.43	0	<20	P 2
130	95	10/96	C	TEC-TEH	TEC-TEH	00054 610VS 09H+	0.91	0.45	0	<20	P 2
144	95	10/96	H	07H-VS3	07H-VS3	00404 580HP BW1+	1.75	0.59	0	<20	P 3
150	95	10/96	H	07H-VS3	07H-VS3	00404 580HP VS1-	0.72	0.54	0	<20	P 3
51	96	10/96	C	TEC-TEH	TEC-TEH	00172 610VS VS4+	0.93	0.53	0	<20	P 2
63	96	10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.15	0.45	.2	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.15	0.44	.2	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.15	180.0	42	SCI	P 4
67	96	10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.09	0.22	.2	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.09	0.73	.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00036 600HP TSH-	0.09	176.0	36	MCI	P 4
71	96	10/96	C	VS5-VS5	VS5-VS5	1 00196 580HP VS5+	1.71	8.99	.5	SVI	P 2
		10/96	C	VS5-VS5	VS5-VS5	1 00196 580HP VS5+	1.71	1.02	.5	SVI	P 3
		10/96	C	VS5-VS5	VS5-VS5	1 00196 580HP VS5+	1.71	17.00	44	SVI	P 3
111	96	10/96	H	07H-VS3	07H-VS3	00205 580HP BW1+	1.75	0.55	0	<20	P 3
113	96	10/96	H	07H-VS3	07H-VS3	00204 580HP BW1+	1.61	0.76	0	<20	P 3

ROCKRIDGE TECHNOLOGIES



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
115	96	10/96		C	TEC-TEH	TEC-BW1	00040	610VS								OBS	
117	96	10/96		H	07H-VS3	07H-VS3	00204	580HP	09H-	1.32		0.55		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00056	610VS	09H+	0.85		0.50		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00204	580HP	09H+	1.69		0.71		0	<20	P 3	
119	96	10/96		H	07H-VS3	06H-VS3	00384	580HP	09H-	0.08		1.03		0	<20	P 3	
131	96	10/96		H	07H-VS3	07H-VS3	00392	580HP	09H-	0.17		1.05		0	20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00057	610VS	09H-	0.12		0.69		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00392	580HP	BW1+	1.90		0.72		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00392	580HP	BW1+	5.15		0.68		1.6	SAI	P 2	
		10/96		H	07H-VS3	07H-VS3	00392	580HP	BW1+	5.15		0.62		1.3	SAI	P 3	
		10/96		H	07H-VS3	07H-VS3	00392	580HP	BW1+	5.15		142.0		43	SAI	P 3	
135	96	10/96		H	07H-VS3	07H-VS3	00384	580HP	09H-	0.06		0.82		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00057	610VS	09H-	0.03		0.43		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00384	580HP	BW1+	1.96		0.66		0	<20	P 3	
137	96	10/96		H	07H-VS3	07H-VS3	00385	580HP	09H+	0.68		0.57		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00385	580HP	BW1-	0.72		1.75		0	22	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00056	610VS	VS1-	0.96		1.20		0	25	P 2	
143	96	10/96		H	07H-VS3	07H-VS3	00384	580HP	VS1+	0.63		0.87		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00057	610VS	VS1+	1.00		0.47		0	<20	P 2	
159	96	10/96		H	07H-VS3	07H-VS3	00411	580HP	BW1-	1.75		2.39		0	34	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00077	610VS	BW1-	1.74		0.92		0	21	P 2	
40	97	10/96		C	TEC-TEH	TEC-TEH	00171	610VS	BW2-	1.79		0.61		0	<20	P 2	
70	97	10/96		H	TSH-TSH	TSH-TSH	00037	600HP	TSH+	0.18		0.18		0.1	SAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH	00037	600HP	TSH+	0.18		0.39		0.1	SAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH	00037	600HP	TSH+	0.18		50.00		54	SAI	P 3	
114	97	10/96		H	07H-VS3	08H-VS3	00205	580HP	08H+	0.77		0.66		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00028	610VS	08H+	0.83		0.50		0	<20	P 2	
122	97	10/96		H	07H-VS2	07H-VS3	00384	580HP	VS1-	0.54		0.91		0	<20	P 3	
132	97	10/96		H	07H-VS3	07H-VS3	00387	580HP	09H-	1.06		0.45		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00387	580HP	VS1+	0.52		0.50		0	<20	P 3	
134	97	10/96		C	TEC-TEH	TEC-TEH	00058	610VS	VS6-	0.38		0.44		0	<20	P 2	
138	97	10/96		H	07H-VS3	07H-VS3	00391	580HP	VS1-	0.85		0.67		0	<20	P 3	
142	97	10/96		H	07H-VS3	08H-VS3	00425	580HP	BW1-	0.77		1.03		0	<20	P 3	
156	97	10/96		C	TEC-TEH	TEC-TEH	00070	610VS	VS7+	0.95		0.47		0	<20	P 2	
		10/96		C	TEC-TEH	TSC-TEH	00057	610VS	VS7+	0.96		0.53		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH	00070	610VS	BW2+	1.85		0.42		0	<20	P 2	
39	98	10/96		C	TEC-TEH	TEC-TEH	00172	610VS	BW2-	1.92		0.31		0	<20	P 2	
43	98	10/96		C	TEC-TEH	TEC-TEH	00172	610VS	VS4-	1.05		0.44		0	<20	P 2	
45	98	10/96		C	TEC-TEH	TEC-TEH	00171	610VS	VS4-	0.92		0.54		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH	00171	610VS	BW2-	1.78		0.20		0	<20	P 2	
89	98	10/96		H	TSH-TSH	TSH-TSH	00013	600HP	TSH-	0.20		0.48		.2	SAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH	00013	600HP	TSH-	0.20		1.07		.2	SAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH	00013	600HP	TSH-	0.20		54.00		67	SAI	P 3	
115	98	10/96		H	07H-VS3	07H-VS3	00207	580HP	08H-	0.84		0.75		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00207	580HP	08H+	0.76		0.68		0	<20	P 3	



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STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:28:41

ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		H	07H-VS3	07H-VS3		00207	580HP	BW1+	1.34	0.46	0	<20	P 3	
117	98	10/96		H	07H-VS3	08H-VS3		00206	580HP	08H+	0.71	0.67	0	<20	P 3	
		10/96		H	07H-VS3	07H-08H		00303	580HP	08H+	1.04	0.56	0	<20	P 3	
121	98	10/96		H	06H-VS2	06H-VS2		00385	580HP	08H+	0.74	0.99	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00057	610VS	08H+	0.88	0.46	0	<20	P 2	
		10/96		H	06H-VS2	06H-VS2		00385	580HP	VS1-	0.79	1.33	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00057	610VS	VS1-	0.71	0.68	0	<20	P 2	
		10/96		H	07H-VS3	VS2-VS3		00425	580HP	VS2-	0.78	1.17	0	20	P 3	
123	98	10/96		H	07H-VS2	07H-VS2		00388	580HP	09H-	0.02	0.60	0	<20	P 3	
125	98	10/96		H	08H-VS3	08H-VS3		00387	580HP	08H-	0.04	0.62	0	<20	P 3	
131	98	10/96		C	TEC-TEH	TEC-TEH		00057	610VS	09H-	0.94	0.31	0	<20	P 2	
		10/96		H	07H-VS3	08H-VS3		00388	580HP	09H-	0.89	0.83	0	<20	P 3	
137	98	10/96		H	07H-VS3	07H-VS3		00385	580HP	09H+	0.78	0.95	0	<20	P 3	
139	98	10/96		C	TEC-TEH	TEC-TEH		00059	610VS	VS1+	0.93	0.36	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00388	580HP	VS1+	1.00	0.57	0	<20	P 3	
114	99	10/96		H	07H-VS3	07H-VS3		00207	580HP	08H+	1.09	0.46	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00207	580HP	BW1+	2.10	0.70	0	<20	P 3	
118	99	10/96		H	07H-VS3	07H-VS3		00380	580HP	08H+	0.69	0.57	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00380	580HP	BW1+	2.09	0.91	0	<20	P 3	
122	99	10/96		H	07H-VS2	07H-VS2		00382	580HP	VS1+	0.66	0.66	0	<20	P 3	
124	99	10/96		C	TEC-TEH	TEC-TEH		00057	610VS	09H-	0.12	0.36	0	<20	P 2	
		10/96		H	07H-VS2	07H-VS3		00383	580HP	09H+	0.91	0.68	0	<20	P 3	
126	99	10/96		H	07H-VS3	07H-VS3		00380	580HP	09H+	0.86	0.95	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00059	610VS	09H+	0.97	0.66	0	<20	P 2	
132	99	10/96		H	07H-VS3	07H-VS3		00383	580HP	08H+	0.01	0.59	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00383	580HP	BW1+	0.82	0.00	0	SAI	P 2	
		10/96		H	07H-VS3	07H-VS3		00383	580HP	BW1+	0.82	0.35	0.6	SAI	P 3	
		10/96		H	07H-VS3	07H-VS3		00383	580HP	BW1+	0.82	111.0	66	SAI	P 3	
136	99	10/96		H	07H-VS3	08H-VS3		00381	580HP	VS1-	0.11	0.62	0	<20	P 3	
146	99	10/96		H	07H-VS3	09H-VS3		00382	580HP	BW1+	1.75	0.58	0	<20	P 3	
150	99	10/96		H	07H-VS3	07H-VS3		00384	580HP	VS3-	0.73	0.82	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00384	580HP	VS3-	0.14	1.02	0	<20	P 3	
41	100	10/96		H	TSH-TSH	TSH-TSH		00048	600MP	TSH-	2.79	0.73	0.6	SVI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00048	600MP	TSH-	2.79	0.67	0.6	SVI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00048	600MP	TSH-	2.79	179.0	4	SVI	P 3	
43	100	10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	2.36	1.66	0.7	MAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	2.36	2.97	0.7	MAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	2.36	11.00	22	MAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	0.97	0.26	0.2	MAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	0.97	1.09	0.3	MAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00039	600HP	TSH-	0.97	3.00	13	MAI	P 3	
65	100	10/96		H	TSH-TSH	TSH-TSH		00038	600HP	TSH+	0.04	0.42	0.3	SCI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00038	600HP	TSH+	0.04	0.74	0.4	SCI	P 4	
		10/96		H	TSH-TSH	TSH-TSH		00038	600HP	TSH+	0.04	26.00	30	SCI	P 4	
99	100	10/96		C	TEC-TEH	TEC-TEH		00028	610VS	VS2-	0.75	0.68	0	<20	P 2	



CUMULATIVE REPORT  
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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
113	100	10/96		C	TEC-TEH	TEC-TEH	00027	610VS	VS2-	0.83		1.28		0	30	P 2	
		10/96		H	07H-VS3	07H-VS3	00204	580HP	VS2+	0.00		1.47		0	25	P 3	
		10/96		H	07H-VS3	07H-VS3	00204	580HP	VS3+	0.67		0.74		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00027	610VS	VS3+	0.92		0.27		0	<20	P 2	
115	100	10/96		H	07H-VS3	07H-VS3	00207	580HP	08H+	1.09		0.45		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00207	580HP	VS3+	1.21		0.53		0	<20	P 3	
117	100	10/96		C	TEC-TEH	TEC-TEH	00059	610VS	09H-	0.99		0.32		0	<20	P 2	
119	100	10/96		H	07H-VS3	09H-VS3	00380	580HP	09H-	0.09		1.53		0	22	P 3	
121	100	10/96		H	07H-VS3	BW1-VS3	00381	580HP	VS1-	1.03		0.90		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00059	610VS	VS1-	0.83		0.72		0	<20	P 2	
123	100	10/96		H	07H-VS2	07H-VS2	00380	580HP	07H+	0.97		0.61		0	<20	P 3	
131	100	10/96		H	07H-VS3	09H-VS3	00380	580HP	09H-	0.01		0.82		0	<20	P 3	
		10/96		H	07H-VS3	07H-09H	00380	580HP	09H-	0.01		0.82		0	<20	P 3	
139	100	10/96		H	07H-VS3	BW1-VS1	00373	580HP	BW1+	1.75		0.61		0	<20	P 3	
153	100	10/96		C	TEC-TEH	TEC-TEH	00059	610VS	BW1+	1.89		0.33		0	<20	P 2	
159	100	10/96		C	TEC-TEH	TEC-TEH	00077	610VS	VS7+	0.74		0.72		0	<20	P 2	
38	101	10/96		C	TEC-TEH	TEC-TEH	00137	610LF	BW1-	1.77		0.23		0	<20	P 2	
116	101	10/96		H	07H-VS3	07H-VS3	00206	580HP	09H+	0.64		0.99		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00206	580HP	BW1+	1.81		0.66		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00027	610VS	BW1+	1.84		0.23		0	<20	P 2	
118	101	10/96		H	07H-VS3	07H-VS5	00425	580HP	07H+	0.71		1.55		0	25	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00059	610VS	07H+	0.96		1.82		0	33	P 2	
120	101	10/96		C	TEC-TEH	TEC-TEH	00057	610VS	07H+	0.94		0.58		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00425	580HP	07H+	0.96		0.72		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00425	580HP	09H+	0.92		1.14		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00057	610VS	09H+	1.01		0.64		0	<20	P 2	
122	101	10/96		H	07H-VS2	07H-VS2	00425	580HP	08H-	0.08		0.60		0	<20	P 3	
126	101	10/96		H	07H-VS3	07H-VS3	00369	580HP	09H+	0.94		0.75		0	<20	P 3	
142	101	10/96		C	TEC-TEH	TEC-VS3	00070	610VS							OBS		
		10/96		H	07H-VS3	07H-VS3	00369	580HP	09H+	22.31		0.59		0.4	SVI	P 2	
		10/96		H	07H-VS3	07H-VS3	00369	580HP	09H+	22.31		0.78		0.4	SVI	P 3	
		10/96		H	07H-VS3	07H-VS3	00369	580HP	09H+	22.31		3.00		10	SVI	P 3	
150	101	10/96		H	07H-VS3	08H-VS3	00374	580HP	BW1+	1.64		0.54		0	<20	P 3	
154	101	10/96		C	TEC-TEH	TEC-TEH	00059	610VS	BW2+	1.75		0.46		0	<20	P 2	
113	102	10/96		H	07H-VS3	07H-VS3	00204	580HP	08H+	0.65		0.32		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00027	610VS	08H+	0.81		0.29		0	<20	P 2	
115	102	10/96		H	07H-VS3	07H-VS3	00207	580HP	BW1-	2.10		0.61		0	<20	P 3	
117	102	10/96		H	07H-VS3	07H-VS3	00206	580HP	08H-	0.17		0.67		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00059	610VS	09H+	1.49		0.75		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00206	590HP	09H+	1.50		0.34		0	<20	P 3	
119	102	10/96		H	07H-VS3	07H-VS3	00369	580HP	08H-	0.97		0.51		0	<20	P 3	
121	102	10/96		H	07H-VS3	07H-VS5	00423	580HP	08H-	0.08		0.91		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00059	610VS	08H+	0.00		0.60		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS5	00423	580HP	VS2-	1.04		0.43		0	<20	P 3	
139	102	10/96		C	TEC-TEH	TEC-TEH	00057	610VS	VS1-	0.97		0.59		0	<20	P 2	

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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
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 SELECTION VARIABLES: Percent

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		EXAM		EXAM EXTENT														
ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	°	CH	CHNG		
126	105	10/96		H	07H-VS3	06H-VS3		00369	580HP	09H-	0.02	0.66		0	<20	P 3		
130	105	10/96		H	07H-VS3	07H-VS3		00362	580HP	09H-	0.08	0.81		0	<20	P 3		
134	105	10/96		H	07H-VS3	07H-VS3		00369	580HP	BW1+	1.81	0.55		0	<20	P 3		
142	105	10/96		H	07H-VS3	07H-VS3		00369	580HP	BW1+	1.73	1.11		0	<20	P 3		
154	105	10/96		C	TEC-TEH	TEC-TEH		00060	610VS	VS1-	1.02	0.41		0	<20	P 2		
111	106	10/96		H	07H-VS3	07H-VS3		00199	580HP	VS3+	0.25	0.57		0	<20	P 3		
113	106	10/96		H	07H-VS3	07H-VS3		00204	580HP	08H+	0.82	0.33		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	08H+	0.87	0.28		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	BW1-	1.50	0.42		0	<20	P 3		
115	106	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1+	2.00	0.77		0	<20	P 3		
121	106	10/96		H	07H-VS3	07H-VS2		00370	580HP	VS2-	0.96	0.67		0	<20	P 3		
123	106	10/96		H	07H-VS2	07H-VS2		00362	580HP	08H+	0.84	0.51		0	<20	P 3		
129	106	10/96		H	07H-VS3	07H-VS3		00365	580HP	09H+	0.87	0.70		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00365	580HP	BW1+	4.31	0.32	0.3	SAI	P 2			
		10/96		H	07H-VS3	07H-VS3		00365	580HP	BW1+	4.31	0.55	0.4	SAI	P 3			
		10/96		H	07H-VS3	07H-VS3		00365	580HP	BW1+	4.31	27.00	29	SAI	P 3			
131	106	10/96		H	07H-VS3	08H-VS3		00362	580HP	09H+	1.07	0.82		0	<20	P 3		
139	106	10/96		H	07H-VS3	07H-VS3		00364	580HP	BW1-	1.80	1.23		0	23	P 3		
110	107	10/96		H	07H-VS3	07H-VS3		00199	580HP	BW1+	2.00	1.13		0	<20	P 3		
112	107	10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1-	1.78	0.21		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	BW1-	1.36	0.54		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS2-	1.19	0.91		0	25	P 2		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	VS2-	1.00	0.78		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS2-	0.70	0.48		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	VS2-	0.56	0.60		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	VS3-	0.80	0.73		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS3-	0.70	1.25		0	30	P 2		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	VS3-	0.14	1.31		0	24	P 3		
		10/96		H	07H-VS3	07H-VS3		00204	580HP	VS3+	0.80	1.53		0	26	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS3+	1.14	1.14		0	28	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS5+	1.08	0.39		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS6-	0.76	0.69		0	20	P 2		
118	107	10/96		C	TEC-TEH	TEC-TEH		00061	610VS	09H+	1.13	0.45		0	<20	P 2		
		10/96		H	07H-VS3	09H-VS3		00353	580HP	09H+	1.47	1.04		0	<20	P 3		
122	107	10/96		H	07H-VS2	07H-VS2		00362	580HP	09H-	1.02	0.73		0	<20	P 3		
		10/96		H	07H-VS2	07H-VS2		00362	580HP	09H+	0.90	0.73		0	<20	P 3		
		10/96		H	07H-VS2	07H-VS2		00362	580HP	VS1+	0.36	1.28		0	<20	P 3		
124	107	10/96		H	07H-VS2	07H-VS2		00363	580HP	09H-	0.07	0.48		0	<20	P 3		
126	107	10/96		H	07H-VS3	07H-BW1		00353	580HP	09H+	0.75	0.96		0	<20	P 3		
31	108	10/96		C	TEC-TEH	TEC-TEH		00139	610LF	BW1-	1.86	0.71	153	<20	P 2			
113	108	10/96		H	07H-VS3	07H-VS3		00204	580HP	BW1-	2.07	0.55		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS5+	0.86	0.32		0	<20	P 2		
115	108	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1+	2.07	0.83		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	VS5-	0.71	0.47		0	<20	P 2		
117	108	10/96		C	TEC-TEH	TEC-TEH		00061	610VS	07H+	0.93	0.39		0	<20	P 2		



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 30 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	EXAM	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
	10/96		H	07H-VS3	07H-VS3		00196	580HP	07H+	1.06	0.97	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00061	610VS	08H+	0.85	0.51	0	<20	P 2	
	10/96		H	07H-VS3	07H-VS3		00196	580HP	08H+	1.06	1.22	0	21	P 3	
	10/96		H	07H-VS3	07H-VS3		00196	580HP	09H+	1.36	0.80	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00061	610VS	09H+	1.46	1.30	0	28	P 2	
119	108	10/96	H	07H-VS3	07H-VS3		00353	580HP	08H+	0.89	0.46	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00353	580HP	BW1+	1.74	0.49	.5	SVI	P 2	
	10/96		H	07H-VS3	07H-VS3		00353	580HP	BW1+	1.74	0.56	.5	SVI	P 3	
	10/96		H	07H-VS3	07H-VS3		00353	580HP	BW1+	1.74	127.0	79	SVI	P 3	
127	108	10/96	H	07H-VS3	07H-VS3		00353	580HP	09H-	0.31	1.14	0	<20	P 3	
131	108	10/96	H	07H-VS3	08H-VS3		00351	580HP	09H-	0.30	0.78	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00060	610VS	09H-	0.03	0.41	0	<20	P 2	
157	108	10/96	C	TEC-TEH	TEC-TEH		00078	610VS	09C+	0.81	0.52	0	<20	P 2	
36	109	10/96	C	TEC-TEH	TEC-TEH		00138	610VS	VS4-	0.91	0.44	0	<20	P 2	
100	109	10/96	H	TSH-TSH	TSH-TSH		00011	600HP	TSH-	0.29	0.28	0.3	SAI	P 2	
	10/96		H	TSH-TSH	TSH-TSH		00011	600HP	TSH-	0.29	0.42	0.2	SAI	P 3	
	10/96		H	TSH-TSH	TSH-TSH		00011	600HP	TSH-	0.29	35.00	87	SAI	P 3	
108	109	10/96	C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	2.00	0.32	0	<20	P 2	
122	109	10/96	H	07H-VS2	07H-VS2		00351	580HP	VS1-	0.69	0.48	0	<20	P 3	
130	109	10/96	H	09H-VS2	09H-VS2		00351	580HP	09H-	0.12	0.68	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00060	610VS	09H-	0.06	0.39	0	<20	P 2	
154	109	10/96	C	TEC-TEH	TEC-TEH		00060	610VS	VS3+	0.73	0.47	0	<20	P 2	
156	109	10/96	C	TEC-TEH	TEC-TEH		00078	610VS	VS1-	0.86	0.57	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	VS3-	0.95	0.49	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	VS7-	0.86	0.73	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	VS7+	0.95	0.68	0	<20	P 2	
81	110	10/96	C	TEC-TEH	TEC-TEH		00138	610VS	VS3-	0.75	0.51	0	<20	P 2	
109	110	10/96	C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	2.01	0.35	0	<20	P 2	
111	110	10/96	H	07H-VS3	07H-VS3		00199	580HP	BW1+	2.15	0.46	0	<20	P 3	
115	110	10/96	H	07H-VS3	07H-VS3		00197	580HP	BW1+	1.74	1.43	0	21	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	2.00	0.36	0	<20	P 2	
119	110	10/96	H	07H-VS3	07H-VS3		00353	580HP	09H+	0.77	1.18	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00060	610VS	09H+	0.92	0.47	0	<20	P 2	
121	110	10/96	C	TEC-TEH	TEC-TEH		00061	610VS	VS1-	0.89	0.51	0	<20	P 2	
131	110	10/96	H	07H-VS3	09H-VS3		00351	580HP	BW1+	1.72	0.64	0	<20	P 3	
135	110	10/96	H	07H-VS3	07H-VS3		00353	580HP	09H-	0.85	0.71	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00353	580HP	VS1+	1.00	0.49	0	<20	P 3	
147	110	10/96	H	07H-VS3	06H-VS3		00351	580HP	BW1+	1.72	0.63	0	<20	P 3	
28	111	10/96	C	TEC-TEH	TEC-TEH		00011	610VS	VS4-	0.67	0.33	0	<20	P 2	
80	111	10/96	C	TEC-TEH	TEC-TEH		00138	610VS	VS3-	0.86	0.39	0	<20	P 2	
116	111	10/96	H	07H-VS3	07H-VS3		00196	580HP	BW1+	1.71	0.75	0	<20	P 3	
118	111	10/96	H	07H-VS3	07H-VS3		00343	580HP	09H+	0.58	1.01	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00343	580HP	BW1-	1.70	0.57	0	<20	P 3	
146	111	10/96	H	07H-VS3	07H-VS3		00351	580HP	BW1-	1.67	0.44	0	<20	P 3	
111	112	10/96	C	TEC-TEH	TEC-TEH		00028	610VS	VS3+	1.01	1.52	0	26	P 2	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 31 OF 48  
DATE: 01/01/97  
TIME: 09:28:41

ROW	LINE	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
		10/96		H	07H-VS3	07H-VS3		00197	580HP	VS3+	1.07	1.81		0	29	P 3
115	112	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1+	1.89	0.67		0	<20	P 3
117	112	10/96		C	TEC-TEH	TEC-TEH		00061	610VS	09H+	1.12	0.59		0	<20	P 2
119	112	10/96		H	07H-VS3	07H-VS3		00343	580HP	09H-	0.09	0.64		0	<20	P 3
48	113	10/96		C	TEC-TEH	TEC-TEH		00011	610VS	VS4+	1.06	0.66		0	<20	P 2
82	113	10/96		C	TEC-TEH	TEC-TEH		00139	610LF	VS5+	0.96	0.42		0	<20	P 2
110	113	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1+	1.80	0.82		0	<20	P 3
112	113	10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	2.00	0.43		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00196	580HP	BW1+	2.11	1.19		0	20	P 3
114	113	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1-	2.01	1.11		0	20	P 3
116	113	10/96		H	07H-VS3	07H-VS3		00196	580HP	BW1+	2.12	0.65		0	<20	P 3
118	113	10/96		C	TEC-TEH	TEC-TEH		00062	610VS	BW1-	1.92	0.35		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00343	580HP	BW1-	1.88	1.15		0	<20	P 3
122	113	10/96		H	07H-VS2	07H-VS3		00343	580HP	BW1+	1.95	0.84		0	<20	P 3
126	113	10/96		C	TEC-TEH	TEC-TEH		00063	610VS	09H-	0.09	0.34		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00343	580HP	09H-	0.06	0.82		0	<20	P 3
134	113	10/96		H	07H-VS3	07H-VS3		00343	580HP	BW1+	1.77	0.86		0	<20	P 3
150	113	10/96		H	07H-VS3	07H-VS3		00343	580HP	BW1+	2.00	0.49		0	<20	P 3
109	114	10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	1.90	0.43		0	<20	P 2
111	114	10/96		C	TEC-TEH	TEC-TEH		00028	610VS	VS5-	0.75	0.54		0	<20	P 2
113	114	10/96		H	07H-VS3	07H-VS3		00196	580HP	08H+	0.91	1.08		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	08H+	0.94	0.50		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00196	580HP	BW1-	1.85	0.74		0	<20	P 3
115	114	10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1-	1.83	0.29		0	<20	P 2
		10/96		H	07H-VS3	08H-VS3		00197	580HP	BW1-	1.81	1.01		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00027	610VS	BW1+	1.81	0.29		0	<20	P 2
		10/96		H	07H-VS3	08H-VS3		00197	580HP	BW1+	1.87	1.33		0	20	P 3
		10/96		H	07H-VS3	08H-VS3		00197	580HP	BW1+	2.47	0.39		0.2	SVI	P 2
		10/96		H	07H-VS3	08H-VS3		00197	580HP	BW1+	2.47	0.74		0.3	SVI	P 3
		10/96		H	07H-VS3	08H-VS3		00197	580HP	BW1+	2.47	85.00		70	SVI	P 3
119	114	10/96		C	TEC-TEH	TEC-TEH		00063	610VS	09H+	0.95	0.70		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00339	580HP	09H+	0.97	1.21		0	21	P 3
143	114	10/96		H	07H-VS3	06H-VS3		00339	580HP	BW1+	2.08	0.62		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00063	610VS	BW1+	2.10	0.29		0	<20	P 2
147	114	10/96		H	07H-VS3	07H-VS3		00340	580HP	VS1+	0.92	0.57		0	<20	P 3
151	114	10/96		C	TEC-TEH	TEC-TEH		00063	610VS	BW2-	1.75	0.38		0	<20	P 2
155	114	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	BW2+	1.91	1.64		0	<20	P 2
110	115	10/96		H	07H-VS3	07H-VS3		00408	580MP	BW1+	1.94	1.07		0	<20	P 3
112	115	10/96		H	07H-VS3	07H-VS3		00302	580HP	BW1+	1.93	1.08		0	<20	P 3
114	115	10/96		H	07H-VS3	07H-VS3		00197	580HP	08H-	0.98	0.57		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00197	580HP	08H+	34.61	0.49		0.3	SVI	P 2
		10/96		H	07H-VS3	07H-VS3		00197	580HP	08H+	34.61	0.48		0.3	SVI	P 3
		10/96		H	07H-VS3	07H-VS3		00197	580HP	08H+	34.61	52.00		89	SVI	P 3
116	115	10/96		H	07H-VS3	07H-VS3		00196	580HP	09H-	0.70	0.71		0	<20	P 3
124	115	10/96		H	07H-VS2	07H-VS3		00323	580HP	09H+	0.00	0.55		0	<20	P 3



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 32 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
130	115	10/96		H	07H-VS3	07H-VS3	00327	580HP	09H+	0.76		1.08		0	21	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00063	610VS	09H+	0.98		0.77		0	<20	P 2	
136	115	10/96		H	07H-VS3	07H-VS3	00339	580HP	BW1+	2.18		0.63		0	<20	P 3	
150	115	10/96		C	TEC-TEH	TEC-TEH	00063	610VS	BW1+	2.18		0.35		0	<20	P 2	
156	115	10/96		C	TEC-TEH	TEC-TEH	00078	610VS	BW2-	1.83		0.44		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH	00078	610VS	BW2+	1.75		1.28		0	<20	P 2	
83	116	10/96		C	TEC-TEH	TEC-TEH	00139	610LF	VS3+	0.92		0.40		0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH	00139	610LF	VS5-	0.97		0.37		0	<20	P 2	
111	116	10/96		C	TEC-TEH	TEC-TEH	00028	610VS	BW1+	2.00		0.61		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3	00199	580HP	BW1+	2.25		1.45		0	23	P 3	
113	116	10/96		H	07H-VS3	07H-VS3	00302	580HP	BW1+	3.74		0.00		0	SVI	P 2	
		10/96		H	07H-VS3	07H-VS3	00302	580HP	BW1+	3.74		0.88		0.7	SVI	P 3	
		10/96		H	07H-VS3	07H-VS3	00302	580HP	BW1+	3.74		0.00		48	SVI	P 3	
115	116	10/96		H	07H-VS3	07H-VS3	00197	580HP	BW1+	1.78		1.36		0	20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00027	610VS	BW1+	1.93		0.36		0	<20	P 2	
121	116	10/96		C	TEC-TEH	TEC-TEH	00062	610VS	VS2-	0.85		0.58		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS2	00327	580HP	VS2-	0.76		1.26		0	23	P 3	
123	116	10/96		H	07H-VS2	07H-VS2	00323	580HP	08H+	0.84		0.88		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00063	610VS	08H+	0.91		0.54		0	<20	P 2	
145	116	10/96		H	07H-VS3	08H-VS3	00327	580HP	BW1-	1.75		0.87		0	<20	P 3	
		10/96		H	07H-VS3	08H-VS3	00327	580HP	BW1+	1.75		1.17		0	22	P 3	
151	116	10/96		C	TEC-TEH	TEC-TEH	00063	610VS	06C+	19.25		3.63		9	BLI	P 1	
104	117	10/96		C	TEC-TEH	TEC-TEH	00027	610VS	VS2+	0.99		0.36		0	<20	P 2	
110	117	10/96		H	07H-VS3	07H-VS3	00199	580HP	BW1+	2.04		0.71		0	<20	P 3	
114	117	10/96		H	07H-VS3	07H-VS6	00197	580HP	BW1+	1.86		1.09		0	<20	P 3	
122	117	10/96		H	07H-VS2	07H-VS3	00318	580HP	07H+	4.03		0.90		.6	SVI	P 2	
		10/96		H	07H-VS2	07H-VS3	00318	580HP	07H+	4.03		1.22		1.1	SVI	P 3	
		10/96		H	07H-VS2	07H-VS3	00318	580HP	07H+	4.03		5.00		9	SVI	P 3	
		10/96		C	TEC-TEH	TEC-TEH	00063	610VS	07H+	4.05		1.24		12	BLI	P 1	
136	117	10/96		H	07H-VS3	07H-VS3	00324	580HP	BW1+	2.03		0.72		0	<20	P 3	
115	118	10/96		H	07H-VS3	07H-VS3	00197	580HP	BW1+	1.76		0.73		0	<20	P 3	
117	118	10/96		H	07H-VS3	07H-VS3	00196	580HP	08H-	0.11		0.51		0	<20	P 3	
119	118	10/96		H	07H-VS3	07H-VS3	00318	580HP	BW1-	2.01		0.98		0	<20	P 3	
121	118	10/96		H	07H-VS3	07H-VS3	00318	580HP	VS2-	0.85		0.83		0	<20	P 3	
133	118	10/96		H	07H-VS3	07H-VS3	00325	580HP	BW1+	1.88		0.69		0	<20	P 3	
137	118	10/96		H	07H-VS3	07H-VS3	00325	580HP	BW1+	1.98		0.77		0	<20	P 3	
143	118	10/96		H	07H-VS3	07H-VS3	00318	580HP	BW1+	1.76		0.49		0	<20	P 3	
145	118	10/96		H	07H-VS3	07H-VS3	00325	580HP	BW1-	1.74		0.94		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00325	580HP	BW1+	2.02		1.20		0	<20	P 3	
110	119	10/96		H	07H-VS3	07H-VS3	00199	580HP	BW1+	2.09		0.57		0	<20	P 3	
112	119	10/96		H	07H-VS3	07H-VS3	00303	580HP	BW1+	2.19		0.48		0	<20	P 3	
114	119	10/96		H	07H-VS3	07H-VS3	00197	580HP	BW1+	2.00		0.66		0	<20	P 3	
118	119	10/96		H	07H-VS3	07H-VS3	00318	580HP	09H+	1.11		0.43		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3	00318	580HP	BW1-	1.67		0.62		0	<20	P 3	
136	119	10/96		H	07H-VS3	07H-VS3	00315	580HP	BW1+	2.12		0.83		0	<20	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:28:41

ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96		C	TEC-TEH	TEC-TEH		00063	610VS	BW1+	2.16	0.24	0	<20	P 2	
142	119	10/96		H	07H-VS3	07H-VS3		00317	580HP	BW1+	1.75	0.52	0	<20	P 3	
115	120	10/96		H	07H-VS3	07H-VS3		00197	580HP	BW1+	1.91	0.92	0	<20	P 3	
117	120	10/96		H	07H-VS3	07H-VS3		00196	580HP	BW1+	1.92	0.59	0	<20	P 3	
123	120	10/96		H	07H-VS2	07H-VS2		00313	580HP	09H-	0.03	0.55	0	<20	P 3	
139	120	10/96		H	07H-VS3	07H-VS3		00315	580HP	BW1+	1.75	0.74	0	<20	P 3	
143	120	10/96		H	07H-VS3	07H-VS3		00312	580HP	BW1-	1.75	0.75	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00312	580HP	BW1+	1.70	1.18	0	20	P 3	
151	120	10/96		C	TEC-TEH	TEC-TEH		00077	610VS	VS7-	0.74	0.63	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00077	610VS	VS7+	0.65	0.96	0	22	P 2	
82	121	10/96		C	TEC-TEH	TEC-TEH		00139	610LF	VS3-	0.54	0.54	0	<20	P 2	
116	121	10/96		H	07H-VS3	07H-VS3		00196	580HP	BW1+	1.71	0.93	0	<20	P 3	
118	121	10/96		H	07H-VS3	07H-VS3		00311	580HP	09H+	0.79	1.12	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00062	610VS	09H+	0.92	0.59	0	<20	P 2	
142	121	10/96		H	07H-VS3	07H-VS3		00311	580HP	BW1-	1.70	0.60	0	<20	P 3	
144	121	10/96		H	07H-VS3	07H-VS3		00308	580HP	BW1-	1.71	0.49	0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00308	580HP	BW1+	1.71	0.81	0	<20	P 3	
119	122	10/96		H	07H-VS3	07H-VS3		00311	580HP	BW1-	2.08	0.73	0	<20	P 3	
137	122	10/96		H	07H-VS3	07H-VS3		00308	580HP	BW1+	1.81	0.84	0	<20	P 3	
141	122	10/96		H	07H-VS3	07H-VS3		00305	580HP	BW1+	1.68	1.23	0	21	P 3	
151	122	10/96		H	02H-03H	02H-03H	1	00411	580HP	02H+	29.99	0.00	0	SVI	P 2	
		10/96		H	02H-03H	02H-03H	1	00411	580HP	02H+	29.99	0.60	.3	SVI	P 3	
		10/96		H	02H-03H	02H-03H	1	00411	580HP	02H+	29.99	0.00	.48	SVI	P 3	
40	123	10/96		C	TEC-TEH	TEC-TEH		00007	610VS	07H-	0.95	0.55	0	<20	P 2	
98	123	10/96		C	TEC-TEH	TEC-TEH		00026	610VS	08H-	1.01	0.51	0	<20	P 2	
112	123	10/96		H	07H-VS3	BW1-VS3		00198	580HP	BW1+	1.75	0.45	0	<20	P 3	
116	123	10/96		H	07H-VS3	07H-VS3		00196	580HP	09H-	1.16	1.02	0	<20	P 3	
118	123	10/96		H	07H-VS3	08H-VS3		00307	580HP	09H+	0.93	0.99	0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00062	610VS	09H+	1.01	0.64	0	<20	P 2	
120	123	10/96		H	07H-VS3	06H-VS3		00308	580HP	BW1-	1.96	0.56	0	<20	P 3	
134	123	10/96		H	07H-VS3	07H-VS3		00307	580HP	BW1+	1.94	0.77	0	<20	P 3	
136	123	10/96		C	TEC-TEH	TEC-TEH		00062	610VS	VS1-	0.76	0.54	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00308	580HP	VS1-	0.76	0.99	0	<20	P 3	
138	123	10/96		C	TEC-TEH	TEC-TEH		00063	610VS	BW1+	1.97	0.48	0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00304	580HP	BW1+	1.97	1.55	0	27	P 3	
140	123	10/96		H	07H-VS3	07H-VS3		00305	580HP	BW1+	1.84	1.30	0	21	P 3	
59	124	10/96		C	TSC-01C	TSC-01C	1	00196	580HP	TSC+	13.75	0.00	0	SVI	P 2	
		10/96		C	TSC-01C	TSC-01C	1	00196	580HP	TSC+	13.75	0.48	.3	SVI	P 3	
		10/96		C	TSC-01C	TSC-01C	1	00196	580HP	TSC+	13.75	0.00	.33	SVI	P 3	
67	124	10/96		H	TSH-TSH	TSH-TSH		00006	600HP	TSH-	0.21	0.20	0.2	SAI	P 2	
		10/96		H	TSH-TSH	TSH-TSH		00006	600HP	TSH-	0.21	0.71	0.2	SAI	P 3	
		10/96		H	TSH-TSH	TSH-TSH		00006	600HP	TSH-	0.21	0.00	50	SAI	P 3	
97	124	10/96		C	TEC-TEH	TEC-TEH		00025	610VS	08H-	0.95	0.81	0	21	P 2	
99	124	10/96		C	TEC-TEH	TEC-TEH		00026	610VS	08H+	0.96	0.73	0	<20	P 2	
111	124	10/96		H	07H-VS3	07H-VS3		00199	580HP	VS2+	0.03	0.83	0	<20	P 3	

16. 25. 2000

17. 25. 2000

18. 25. 2000

19. 25. 2000

## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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DATE: 01/01/97

TIME: 09:28:41

ROW	EXAM	EXAM EXTENT	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL						
117	124	10/96	H	07H-VS3	07H-VS3	00196	580HP	09H-	0.84	0.75	0<20P 3
		10/96	C	TEC-TEH	TEC-TEH	00062	610VS	09H-	0.76	0.55	0<20P 2
119	124	10/96	C	TEC-TEH	TEC-TEH	00063	610VS	09H+	0.98	0.37	0<20P 2
		10/96	H	07H-VS3	07H-VS3	00304	580HP	09H+	0.98	0.74	0<20P 3
121	124	10/96	H	07H-VS3	07H-VS3	00305	580HP	BW1-	1.65	0.88	0<20P 3
		10/96	H	07H-VS3	07H-VS3	00305	580HP	VS2-	0.83	1.03	0<20P 3
		10/96	C	TEC-TEH	TEC-TEH	00062	610VS	VS2-	0.71	0.41	0<20P 2
129	124	10/96	H	07H-VS3	07H-VS3	00308	580HP	BW1+	1.83	0.92	0<20P 3
131	124	10/96	C	TEC-TEH	TEC-TEH	00063	610VS	VS1+	1.18	0.34	0<20P 2
139	124	10/96	H	07H-VS3	07H-VS3	00304	580HP	BW1+	1.80	0.93	0<20P 3
		10/96	C	TEC-TEH	TEC-TEH	00063	610VS	BW1+	2.09	0.37	0<20P 2
141	124	10/96	H	07H-VS3	07H-VS3	00305	580HP	BW1+	2.00	0.49	0<20P 3
143	124	10/96	H	07H-VS3	07H-VS3	00307	580HP	BW1+	1.87	0.96	0<20P 3
		10/96	C	TEC-TEH	TEC-TEH	00063	610VS	BW1+	2.06	0.39	0<20P 2
151	124	10/96	C	TEC-TEH	TEC-TEH	00078	610VS	02C-	1.04	0.51	0<20P 2
78	125	10/96	C	TEC-TEH	TEC-TEH	00129	610LF	VS3+	0.91	0.56	0<20P 2
		10/96	C	TEC-TEH	TEC-TEH	00129	610LF	VS5+	1.08	0.56	0<20P 2
96	125	10/96	H	08H-08H	08H-08H	00141	580HP	08H-	0.97	2.15	0 28P 3
		10/96	C	TEC-TEH	TEC-TEH	00018	610VS	08H-	0.90	3.11	0 42P 2
100	125	10/96	C	TEC-TEH	TEC-TEH	00019	610VS	08H+	1.08	0.59	0<20P 2
102	125	10/96	C	TEC-TEH	BW2-TEH	00040	610VS				OBS
		10/96	C	TEC-TEH	TEC-08C	00040	610VS				OBS
118	125	10/96	H	07H-VS3	07H-VS2	00304	580HP	BW1-	1.87	0.67	0<20P 3
120	125	10/96	C	TEC-TEH	TEC-TEH	00021	610VS	09H+	0.93	1.42	0 27P 2
		10/96	H	07H-VS3	07H-VS3	00305	580HP	09H+	0.93	1.71	0 26P 3
126	125	10/96	H	07H-VS3	07H-VS3	00304	580HP	BW1-	2.17	0.66	0<20P 3
		10/96	H	07H-VS3	07H-VS3	00304	580HP	BW1+	1.49	0.71	0<20P 3
138	125	10/96	H	07H-VS3	07H-VS3	00307	580HP	BW1+	1.99	0.79	0<20P 3
57	126	10/96	H	TSH-TSH	TSH-TSH	00005	600HP	TSH-	0.22	0.31	0.2SAI P 2
		10/96	H	TSH-TSH	TSH-TSH	00005	600HP	TSH-	0.22	1.16	0.2SAI P 3
		10/96	H	TSH-TSH	TSH-TSH	00005	600HP	TSH-	0.22	27.00	56SAI P 3
59	126	10/96	H	BW1-VS3	BW1-VS3	00017	580HP	BW1+	8.11	1.88	0.3SVI P 2
		10/96	H	BW1-VS3	BW1-VS3	00017	580HP	BW1+	8.11	1.58	0.2SVI P 3
		10/96	H	BW1-VS3	BW1-VS3	00017	580HP	BW1+	8.11	17.00	21SVI P 3
95	126	10/96	H	07H-VS3	07H-VS3	00141	580HP	08H-	0.97	1.43	0 20P 3
		10/96	C	TEC-TEH	TEC-TEH	00018	610VS	08H-	0.96	1.29	0 27P 2
97	126	10/96	H	07H-VS3	07H-VS3	00142	580HP	07H-	1.00	0.71	0.3SVI P 2
		10/96	H	07H-VS3	07H-VS3	00142	580HP	07H-	1.00	0.13	0.3SVI P 3
		10/96	H	07H-VS3	07H-VS3	00142	580HP	07H-	1.00	31.00	80SVI P 3
		10/96	C	TEC-TEH	TEC-TEH	00019	610VS	07H-	0.90	0.59	0<20P 2
		10/96	H	07H-VS3	07H-VS3	00142	580HP	08H-	0.84	0.80	0<20P 3
115	126	10/96	H	07H-VS3	07H-VS3	00193	580HP	BW1-	1.80	0.72	0<20P 3
		10/96	H	07H-VS3	07H-VS3	00193	580HP	BW1+	1.76	0.95	0<20P 3
121	126	10/96	C	TEC-TEH	TEC-TEH	00021	610VS	09H-	0.12	0.24	0<20P 2
		10/96	H	07H-VS3	07H-VS5	00297	580HP	09H-	0.01	0.54	0<20P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 35 OF 48  
 DATE: 01/01/97  
 TIME: 09:28:41

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
131	126	10/96		H	07H-VS3	07H-VS3		00296	580HP	BW1+	1.76	0.68		0	<20	P 3	
137	126	10/96		H	07H-VS3	07H-VS3		00299	580HP	BW1+	1.91	0.54		0	<20	P 3	
48	127	10/96		C	TEC-TEH	TEC-TEH		00004	610VS	VS4-	0.89	0.59		0	<20	P 2	
80	127	10/96		C	TEC-TEH	TEC-TEH		00128	610VS	VS3-	0.75	0.48		0	<20	P 2	
94	127	10/96		H	07H-VS3	07H-VS3		00139	580HP	08H-	1.03	1.83		0	26	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00019	610VS	08H-	1.00	1.64		0	31	P 2	
116	127	10/96		H	07H-VS3	07H-VS3		00192	580HP	BW1+	1.91	0.59		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1+	1.91	0.59		0	<20	P 3	
118	127	10/96		C	TEC-TEH	TEC-TEH		00022	610VS	05H+	1.61	12.07		8	BLI	P 1	
		10/96		H	07H-VS3	07H-VS3		00296	580HP	BW1-	1.77	0.90		0	<20	P 3	
128	127	10/96		H	07H-VS3	07H-VS3		00297	580HP	BW1+	1.84	0.79		0	<20	P 3	
150	127	10/96		H	07H-VS3	07H-VS3		00299	580HP	BW1+	1.58	0.56		0	<20	P 3	
87	128	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	08H+	0.97	0.43		0	<20	P 2	
97	128	10/96		H	07H-VS3	07H-VS3		00142	580HP	BW1+	1.90	0.55		0	<20	P 3	
111	128	10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1+	2.12	1.02		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00191	580HP	VS2+	0.06	0.96		0	<20	P 3	
121	128	10/96		H	07H-VS3	07H-VS3		00290	580HP	VS2-	0.31	0.82		0	<20	P 3	
123	128	10/96		H	07H-VS2	07H-VS2		00291	580HP	09H+	0.55	0.70		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00021	610VS	09H+	0.96	0.57		0	<20	P 2	
131	128	10/96		H	07H-VS3	07H-VS3		00291	580HP	VS1-	0.99	0.49		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00291	580HP	VS3-	0.83	0.67		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00291	580HP	VS3-	0.28	0.57		0	<20	P 3	
137	128	10/96		H	07H-VS3	07H-VS3		00295	580HP	VS1-	0.77	0.94		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00022	610VS	VS3-	0.93	0.78		0	<20	P 2	
		10/96		H	07H-VS3	07H-VS3		00295	580HP	VS3-	0.75	0.95		0	<20	P 3	
78	129	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	01H+	3.74	5.88		10	BLI	P 1	
		10/96		C	TEC-TEH	TEC-TEH		00129	610LF	02H+	10.29	10.09		14	BLI	P 1	
		10/96		C	TEC-TEH	TEC-TEH		00129	610LF	03H+	4.07	4.74		7	BLI	P 1	
		10/96		C	TEC-TEH	TEC-TEH		00129	610LF	01C+	7.90	2.38		3	BLI	P 1	
80	129	10/96		C	TEC-TEH	TEC-TEH		00128	610VS	VS3+	1.03	0.80		0	20	P 2	
82	129	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	08H-	0.91	0.56		0	<20	P 2	
84	129	10/96		C	TEC-TEH	TEC-TEH		00128	610VS	VS3+	0.86	0.77		0	<20	P 2	
110	129	10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1+	1.92	0.46		0	<20	P 3	
112	129	10/96		C	TEC-TEH	TEC-TEH		00018	610VS	VS5+	0.43	0.43		0	<20	P 2	
122	129	10/96		H	07H-VS2	07H-VS3		00287	580HP	BW1+	1.73	0.89		0	<20	P 3	
79	130	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	VS3+	0.94	1.13		0	23	P 2	
87	130	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	08H+	0.94	0.56		0	<20	P 2	
113	130	10/96		H	07H-VS3	07H-VS3		00193	580HP	BW1-	1.83	0.55		0	<20	P 3	
		10/96		H	07H-VS3	07H-VS3		00193	580HP	BW1+	1.64	0.85		0	<20	P 3	
127	130	10/96		H	07H-VS3	07H-VS3		00291	580HP	BW1-	2.04	0.49		0	<20	P 3	
131	130	10/96		H	07H-VS3	07H-VS3		00282	580HP	VS1-	0.74	0.57		0	<20	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00022	610VS	VS1-	0.36	0.55		0	<20	P 2	
133	130	10/96		H	07H-VS3	07H-VS3		00278	580HP	VS3-	0.86	2.29		0	33	P 3	
		10/96		C	TEC-TEH	TEC-TEH		00021	610VS	VS3-	0.81	2.04		0	33	P 2	
82	131	10/96		C	TEC-TEH	TEC-TEH		00129	610LF	VS3-	0.82	0.86		0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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		EXAM			EXAM EXTENT													
ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION		VOLTS	MIL	DEG	%	CH	CHNG	
	84	131	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	VS3+	0.97	0.49			0	<20	P 2	
	96	131	10/96		H	07H-VS3	07H-VS3	00204	580HP	BW1+	1.89	0.64			0	<20	P 3	
	116	131	10/96		H	07H-VS3	07H-VS3	00192	580HP	09H-	1.02	0.72			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00191	580HP	09H-	1.02	0.72			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00192	580HP	BW1+	1.67	0.59			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00191	580HP	BW1+	1.67	0.59			0	<20	P 3	
	118	131	10/96		H	07H-VS3	07H-VS3	00399	580HP	BW1-	1.93	1.03			0	<20	P 3	
	144	131	10/96		H	07H-VS3	07H-VS3	00399	580HP	BW1+	2.41	0.00			0	SAI	P 2	
			10/96		H	07H-VS3	07H-VS3	00399	580HP	BW1+	2.41	0.42	1.0	SAI	P 3			
			10/96		H	07H-VS3	07H-VS3	00399	580HP	BW1+	2.41	0.00		83	SAI	P 3		
	1	132	10/96		C	TEC-07C	TEC-07C	00135	610VS	02C-	1.08	0.95			0	20	P 2	
	33	132	10/96		C	TEC-TEH	TEC-TEH	00004	610VS	VS4-	0.64	0.81			0	<20	P 2	
	45	132	10/96		C	TEC-TEH	TEC-TSH	00004	610VS	VS4-	0.90	0.40			0	<20	P 2	
	73	132	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	08H-	0.69	0.30			0	<20	P 2	
	77	132	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	VS3+	1.06	0.76			0	<20	P 2	
	85	132	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	08H+	1.02	0.35			0	<20	P 2	
			10/96		C	TEC-TEH	TEC-TEH	00128	610VS	04C+	10.62	1.25			4	BLI	P 1	
	89	132	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	08H-	0.85	0.33			0	<20	P 2	
	101	132	10/96		H	07H-VS3	07H-VS3	00150	580HP	BW1+	1.90	0.59			0	<20	P 3	
	105	132	10/96		H	07H-VS3	07H-VS3	00150	580HP	BW1+	1.92	0.74			0	<20	P 3	
	113	132	10/96		H	07H-VS3	07H-VS3	00190	580HP	BW1-	1.98	0.65			0	<20	P 3	
	133	132	10/96		H	07H-VS3	07H-VS3	00273	580HP	VS3-	0.93	0.56			0	<20	P 3	
	135	132	10/96		H	07H-VS3	07H-VS3	00395	580HP	VS1-	0.17	0.73			0	<20	P 3	
	137	132	10/96		H	07H-VS3	07H-VS3	00273	580HP	BW1+	2.18	0.66			0	<20	P 3	
	139	132	10/96		H	07H-VS3	07H-VS3	00280	580HP	BW1+	1.97	0.60			0	<20	P 3	
	72	133	10/96		C	TEC-TEH	TEC-TEH	00128	610VS	08H+	1.08	0.34			0	<20	P 2	
	74	133	10/96		C	TEC-TEH	TEC-TEH	00129	610LF	VS5-	0.71	0.59			0	<20	P 2	
	82	133	10/96		C	TEC-TEH	TEC-TEH	00129	610LF	VS3+	0.97	0.70			0	<20	P 2	
	90	133	10/96		H	07H-VS3	07H-VS3	00149	580HP	BW1+	2.00	0.98			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00149	580HP	BW1+	2.40	0.42	0.5	SVI	P 2			
			10/96		H	07H-VS3	07H-VS3	00149	580HP	BW1+	2.40	0.78	0.6	SVI	P 3			
			10/96		H	07H-VS3	07H-VS3	00149	580HP	BW1+	2.40	45.00	50	SVI	P 3			
	92	133	10/96		H	07H-VS3	07H-VS3	00150	580HP	BW1+	1.88	0.73			0	<20	P 3	
	94	133	10/96		H	07H-VS3	07H-VS3	00149	580HP	08H-	0.91	0.57			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00149	580HP	08H+	0.68	0.46			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00149	580HP	BW1+	1.25	0.64			0	<20	P 3	
	96	133	10/96		H	07H-VS3	07H-VS3	00150	580HP	08H-	1.00	0.66			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00150	580HP	08H+	0.96	1.60			0	26	P 3	
			10/96		C	TEC-TEH	TEC-TEH	00016	610VS	08H+	0.99	1.23			0	28	P 2	
	104	133	10/96		H	07H-VS3	07H-VS3	00150	580HP	08H+	0.96	0.53			0	<20	P 3	
	106	133	10/96		H	07H-VS3	07H-VS3	00191	580HP	BW1+	1.63	0.56			0	<20	P 3	
	108	133	10/96		C	TEC-TEH	TEC-08C	00040	610VS						OBS			
			10/96		C	TEC-TEH	TEC-TEH	00079	580VF	VS3+	0.95	0.47			0	<20	P 2	
	116	133	10/96		H	07H-VS3	07H-VS3	00190	580HP	09H-	0.50	0.83			0	<20	P 3	
			10/96		H	07H-VS3	07H-VS3	00190	580HP	09H+	0.17	1.15			0	<20	P 3	



CUMULATIVE REPORT  
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STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
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DATE: 01/01/97  
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EXAM				EXAM EXTENT				LOCATION								
ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	+	CH	CHNG
118	133	10/96		H	07H-VS3	07H-VS3		00272	580HP	BW1-	1.94	0.64		0	<20	P 3
122	133	10/96		H	07H-VS2	09H-VS2		00272	580HP	BW1+	1.76	0.76		0	<20	P 3
81	134	10/96		C	TEC-TEH	TEC-TEH		00127	610VS	VS3+	1.05	0.38		0	<20	P 2
87	134	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	08H-	0.86	0.83		0	<20	P 2
109	134	10/96		H	07H-VS3	07H-VS3		00192	580HP	BW1+	1.72	0.89		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1+	1.72	0.89		0	<20	P 3
115	134	10/96		H	07H-VS3	07H-VS3		00193	580HP	BW1+	1.77	0.79		0	<20	P 3
117	134	10/96		H	07H-VS3	07H-VS3		00192	580HP	BW1-	1.63	0.51		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1-	1.63	0.51		0	<20	P 3
125	134	10/96		H	07H-VS2	07H-VS2		00273	580HP	VS1+	0.76	0.56		0	<20	P 3
72	135	10/96		C	TEC-TEH	TEC-TEH		00125	610VS	VS3-	0.99	0.42		0	<20	P 2
78	135	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	08H+	0.94	0.47		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00126	610VS	08H+	1.05	0.46		0	<20	P 2
80	135	10/96		C	TEC-TEH	TEC-TEH		00127	610VS	08H-	0.80	0.61		0	<20	P 2
82	135	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS3-	0.68	0.50		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS5-	0.77	0.52		0	<20	P 2
86	135	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS3-	0.79	0.38		0	<20	P 2
110	135	10/96		H	07H-VS3	07H-VS3		00192	580HP	BW1+	1.80	0.71		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00191	580HP	BW1+	1.80	0.71		0	<20	P 3
118	135	10/96		H	07H-VS3	08H-VS3		00399	580HP	BW1-	1.77	0.80		0	<20	P 3
140	135	10/96		C	TEC-TEH	TEC-TEH		00077	610VS	06C+	0.03	0.32		0	<20	P 2
47	136	10/96		C	TEC-TEH	TEC-TEH		00001	610VS	07H+	0.06	0.29		0	<20	P 2
51	136	10/96		C	TEC-TEH	TEC-TEH		00001	610VS	VS4-	0.79	0.52		0	<20	P 2
71	136	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	08H+	0.91	0.35		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS3+	1.02	0.33		0	<20	P 2
73	136	10/96		C	TEC-TEH	TEC-TEH		00125	610VS	08H-	0.91	0.44		0	<20	P 2
85	136	10/96		C	TEC-TEH	TEC-TEH		00125	610VS	08H+	0.86	0.41		0	<20	P 2
87	136	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	08H-	0.06	0.57		0	<20	P 2
89	136	10/96		C	TEC-TEH	TEC-TEH		00125	610VS	08H+	1.00	0.38		0	<20	P 2
97	136	10/96		H	07H-VS3	07H-VS3		00153	580HP	BW1+	2.80	0.52	0.5	SVI	P 2	
		10/96		H	07H-VS3	07H-VS3		00153	580HP	BW1+	2.80	0.90	0.4	SVI	P 3	
		10/96		H	07H-VS3	07H-VS3		00153	580HP	BW1+	2.80	0.00	78	SVI	P 3	
101	136	10/96		H	07H-VS3	07H-VS3		00150	580HP	BW1+	2.01	0.71		0	<20	P 3
115	136	10/96		H	07H-VS3	07H-VS3		00193	580HP	BW1+	1.61	0.82		0	<20	P 3
66	137	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	BW1-	1.87	0.31		0	<20	P 2
70	137	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS5+	0.97	0.46		0	<20	P 2
72	137	10/96		C	TEC-TEH	TEC-TEH		00125	610VS	VS3-	0.96	1.63		0	32	P 2
82	137	10/96		C	TEC-TEH	TEC-TEH		00126	610VS	VS3-	0.85	0.89		0	20	P 2
92	137	10/96		H	07H-VS3	07H-VS3		00150	580HP	07H+	0.87	0.39		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00150	580HP	08H-	1.02	0.65		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00150	580HP	BW1+	1.81	0.85		0	<20	P 3
106	137	10/96		H	07H-VS3	07H-VS3		00193	580HP	BW1-	1.77	0.43		0	<20	P 3
114	137	10/96		H	07H-VS3	07H-VS3		00190	580HP	BW1-	1.74	0.57		0	<20	P 3
116	137	10/96		H	07H-VS3	08H-VS3		00193	580HP	BW1+	1.81	0.71		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00016	610VS	BW1+	1.87	0.32		0	<20	P 2

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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
118	137	10/96		H	07H-VS3	07H-VS3	00263	580HP	BW1-	1.97	0.63	0	<20	P	3		
120	137	10/96		H	07H-VS3	07H-VS3	00264	580HP	BW1+	2.13	0.72	0	<20	P	3		
134	137	10/96		H	07H-VS3	07H-VS3	00263	580HP	BW1+	2.11	0.88	0	<20	P	3		
35	138	10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.34	0.00	0	MAI	P	2		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.34	0.37	0.1	MAI	P	3		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.34	0.00	16	MAI	P	3		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.20	0.00	0	MAI	P	2		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.20	1.00	0.2	MAI	P	3		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.20	0.00	95	MAI	P	3		
63	138	10/96		C	TEC-TEH	TEC-TEH	00126	610VS	BW1-	1.75	0.49	0	<20	P	2		
95	138	10/96		H	07H-VS3	07H-VS3	00150	580HP	BW1-	1.92	0.66	0	<20	P	3		
107	138	10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1-	1.75	0.48	0	<20	P	3		
109	138	10/96		C	TEC-TEH	TEC-TEH	00033	610VS	BW1-	2.00	0.30	0	<20	P	2		
		10/96		H	07H-VS3	07H-VS3	00180	580HP	BW1-	2.00	0.89	0	<20	P	3		
111	138	10/96		H	07H-VS3	07H-VS3	00183	580HP	BW1-	1.82	0.69	0	<20	P	3		
133	138	10/96		H	07H-VS3	07H-VS3	00248	580HP	BW1+	2.14	0.30	0	<20	P	3		
135	138	10/96		H	07H-VS3	07H-VS3	00253	580HP	BW1+	2.00	0.60	0	<20	P	3		
66	139	10/96		H	08H-08H	08H-08H	00007	600HP	08H-	0.05	1.31	0	21	P	3		
		10/96		C	TEC-TEH	TEC-TEH	00126	610VS	08H-	0.03	1.08	0	23	P	2		
72	139	10/96		C	TEC-TEH	TEC-TEH	00125	610VS	08H+	0.14	0.43	0	<20	P	2		
		10/96		C	TEC-TEH	TEC-TEH	00125	610VS	VS5+	1.01	0.31	0	<20	P	2		
84	139	10/96		C	TEC-TEH	TEC-TEH	00125	610VS	VS3-	0.86	0.47	0	<20	P	2		
		10/96		C	TEC-TEH	TEC-TEH	00126	610VS	VS3-	0.80	0.55	0	<20	P	2		
88	139	10/96		C	TEC-TEH	TEC-TEH	00148	610VS	BW1+	1.80	0.32	0	<20	P	2		
98	139	10/96		C	TEC-TEH	TEC-TEH	00016	610VS	BW1+	2.21	0.56	0	<20	P	2		
100	139	10/96		H	07H-VS3	06H-VS3	00183	580HP	BW1+	1.83	0.83	0	<20	P	3		
112	139	10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1-	1.75	0.35	0	<20	P	3		
		10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1+	1.75	0.51	0	<20	P	3		
118	139	10/96		H	07H-VS3	07H-VS3	00247	580HP	BW1-	1.79	0.52	0	<20	P	3		
		10/96		H	07H-VS3	07H-VS3	00247	580HP	BW1+	2.00	0.57	0	<20	P	3		
132	139	10/96		H	07H-VS3	07H-VS3	00254	580HP	BW1+	1.67	0.58	0	<20	P	3		
81	140	10/96		C	TEC-TEH	TEC-TSH	00125	610VS	BW1+	2.23	0.31	0	<20	P	2		
101	140	10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1-	1.75	0.51	0	<20	P	3		
		10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1+	1.58	0.68	0	<20	P	3		
103	140	10/96		H	07H-VS3	07H-VS3	00183	580HP	BW1+	1.81	1.07	0	<20	P	3		
115	140	10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1-	1.69	0.87	0	<20	P	3		
		10/96		H	07H-VS3	07H-VS3	00181	580HP	BW1+	1.47	0.88	0	<20	P	3		
117	140	10/96		H	07H-VS3	07H-VS3	00180	580HP	BW1-	1.71	0.67	0	<20	P	3		
119	140	10/96		H	07H-VS3	07H-VS3	00242	580HP	BW1-	1.97	0.89	0	<20	P	3		
131	140	10/96		H	07H-VS3	07H-VS3	00248	580HP	09H-	0.15	0.41	0	<20	P	3		
		10/96		H	07H-VS3	07H-VS3	00248	580HP	BW1+	2.02	0.29	0	<20	P	3		
133	140	10/96		H	07H-VS3	07H-VS3	00246	580HP	BW1+	1.85	0.91	0	<20	P	3		
135	140	10/96		H	07H-VS3	07H-VS3	00242	580HP	BW1+	1.82	1.29	0	21	P	3		
12	141	10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.18	0.00	0	SCI	P	2		
		10/96		H	TSH-TSH	TSH-TSH	00008	600HP	TSH-	0.18	0.59	0.2	SCI	P	4		



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10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	EXAM	EXAM EXTENT	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
LINE	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	
	10/96		H	TSH-TSH	TSH-TSH		00008	600HP	TSH- 0.18
22	141	10/96	H	04H-05H	04H-05H		00018	600HP	04H+ 19.66
	10/96		H	04H-05H	04H-05H		00018	600HP	04H+ 19.66
	10/96		H	04H-05H	04H-05H		00018	600HP	04H+ 19.66
28	141	10/96	H	07H-07H	07H-07H		00007	600HP	07H+ 0.97
64	141	10/96	C	TEC-TEH	TEC-TEH		00124	610VS	VS5- 0.71
82	141	10/96	H	VS3-VS3	VS3-VS3		00221	580HP	VS3- 0.91
	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	VS3- 0.82
	10/96		H	VS3-VS3	VS3-VS3		00221	580HP	VS3+ 0.64
	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	VS5- 0.85
	10/96		H	VSS-VSS	VSS-VSS		00221	580HP	VS5- 0.56
	10/96		H	VSS-VSS	VSS-VSS		00221	580HP	VS5+ 0.61
	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	VS5+ 0.74
86	141	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	BW1+ 1.79
98	141	10/96	H	07H-VS3	07H-VS3		00183	580HP	BW1+ 1.76
102	141	10/96	H	07H-VS3	07H-VS3		00181	580HP	BW1- 1.68
106	141	10/96	H	07H-VS3	07H-VS3		00183	580HP	BW1+ 1.77
108	141	10/96	H	07H-VS3	07H-VS3		00182	580HP	BW1- 1.85
114	141	10/96	H	07H-VS3	07H-VS3		00182	580HP	BW1+ 1.51
118	141	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+ 1.97
120	141	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+ 1.76
130	141	10/96	H	07H-VS3	07H-VS3		00246	580HP	09H- 0.17
	10/96		H	07H-VS3	07H-VS3		00246	580HP	BW1+ 1.82
132	141	10/96	H	07H-VS3	07H-VS3		00242	580HP	BW1- 1.58
134	141	10/96	H	07H-VS3	07H-VS3		00246	580HP	BW1+ 1.84
1	142	10/96	C	TEC-07C	TEC-07C		00135	610VS	04C- 0.87
	10/96		C	TEC-07C	TEC-07C		00135	610VS	03C- 0.89
	10/96		C	TEC-07C	TEC-07C		00135	610VS	02C+ 0.92
	10/96		C	TEC-07C	TEC-07C		00135	610VS	02C- 0.06
79	142	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	08H- 0.06
	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	08H+ 0.99
81	142	10/96	C	TEC-TEH	TEC-TEH		00124	610VS	VS3+ 1.05
99	142	10/96	H	07H-VS3	07H-VS3		00181	580HP	BW1+ 1.90
111	142	10/96	H	07H-VS3	06H-VS3		00183	580HP	BW1- 1.92
113	142	10/96	H	07H-VS3	06H-VS3		00182	580HP	BW1- 1.85
123	142	10/96	H	07H-VS2	07H-VS2		00239	580HP	BW1+ 1.86
137	142	10/96	H	07H-VS3	07H-VS3		00240	580HP	VS3+ 0.60
	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	VS5- 0.83
	10/96		C	TEC-TEH	TEC-TEH		00078	610VS	VS5+ 0.98
2	143	10/96	C	TEC-07C	TEC-07C		00134	610VS	02C- 0.17
16	143	10/96	C	TEC-TEH	TEC-TEH		00084	610VS	04H- 0.80
76	143	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	VS3- 0.88
110	143	10/96	H	07H-VS3	07H-VS3		00180	580HP	BW1+ 1.69
112	143	10/96	H	07H-VS3	07H-VS3		00183	580HP	BW1+ 1.47
114	143	10/96	H	07H-VS3	07H-VS3		00182	580HP	BW1- 1.72



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
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ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	†	CH	CHNG
118	143	10/96		H	07H-VS3	07H-VS5		00395	580HP	BW1+	1.75	0.88		0	<20	P 3
122	143	10/96		H	07H-VS2	07H-VS2		00239	580HP	BW1-	1.92	0.66		0	<20	P 3
128	143	10/96		H	07H-VS3	07H-VS3		00242	580HP	BW1+	1.34	0.62		0	<20	P 3
1	144	10/96		C	TEC-07C	TEC-07C		00135	610VS	02C-	0.96	0.52		0	<20	P 2
61	144	10/96		H	BW1-BW1	BW1-BW1		00016	580HP	BW1+	1.80	0.77		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00123	610LF	BW1+	1.84	0.33		0	<20	P 2
75	144	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	BW1+	1.79	0.31		0	<20	P 2
87	144	10/96		C	TEC-TEH	TEC-TEH		00148	610VS	08H+	1.00	0.32		0	<20	P 2
91	144	10/96		C	TEC-TEH	TEC-TEH		00017	610VS	08H+	1.12	0.70		0	<20	P 2
95	144	10/96		H	07H-VS3	07H-VS3		00183	580HP	BW1+	1.68	0.67		0	<20	P 3
97	144	10/96		H	07H-VS3	07H-VS3		00182	580HP	BW1+	1.83	0.48		0	<20	P 3
107	144	10/96		H	07H-VS3	07H-VS3		00181	580HP	BW1+	1.90	0.75		0	<20	P 3
109	144	10/96		H	07H-VS3	07H-VS3		00180	580HP	BW1+	2.08	0.69		0	<20	P 3
111	144	10/96		H	07H-VS3	07H-VS3		00183	580HP	BW1+	1.59	0.65		0	<20	P 3
119	144	10/96		H	07H-VS3	07H-VS3		00241	580HP	BW1+	1.78	1.11		0	<20	P 3
131	144	10/96		H	07H-VS3	07H-VS3		00242	580HP	BW1+	1.83	0.65		0	<20	P 3
133	144	10/96		H	07H-VS3	07H-VS3		00239	580HP	BW1+	2.07	0.57		0	<20	P 3
66	145	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	VS5+	0.98	0.77		0	<20	P 2
68	145	10/96		H	08H-08H	08H-08H		00007	600HP	08H-	0.99	0.48		0	<20	P 3
		10/96		H	08H-08H	08H-08H		00007	600HP	08H+	0.78	1.46		0	23	P 3
		10/96		C	TEC-TEH	TEC-TEH		00124	610VS	08H+	0.95	0.78		0	20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00124	610VS	BW1-	2.25	0.40		0	<20	P 2
82	145	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	08H+	0.94	0.45		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH		00123	610LF	VS5-	0.85	1.01		0	20	P 2
96	145	10/96		H	07H-VS3	07H-VS3		00182	580HP	BW1+	1.77	0.83		0	<20	P 3
102	145	10/96		H	07H-VS3	07H-VS3		00256	580HP	BW1+	1.97	0.74		0	<20	P 3
106	145	10/96		H	07H-VS3	BW1-VS3		00181	580HP	BW1+	1.83	0.58		0	<20	P 3
108	145	10/96		H	07H-VS3	07H-VS3		00180	580HP	BW1+	1.97	0.33		0	<20	P 3
112	145	10/96		H	07H-VS3	07H-VS3		00182	580HP	BW1+	1.30	0.51		0	<20	P 3
120	145	10/96		H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.82	0.65		0	<20	P 3
122	145	10/96		H	07H-VS2	07H-VS2		00239	580HP	BW1+	1.77	1.35		0	25	P 3
		10/96		C	TEC-TEH	TEC-TEH		00024	610VS	BW1+	2.08	0.60		0	<20	P 2
130	145	10/96		C	TEC-TEH	TEC-TEH		00077	610VS	BW1-	2.24	0.49		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3		00239	580HP	BW1-	1.98	0.62		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.69	0.77		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH		00077	610VS	BW1+	1.98	0.40		0	<20	P 2
19	146	10/96		C	TEC-TEH	TEC-TEH		00084	610VS	VS4-	0.65	0.57		0	<20	P 2
67	146	10/96		C	TEC-TEH	TEC-TEH		00124	610VS	08H+	1.30	1.18		0	27	P 2
		10/96		H	08H-08H	08H-08H		00221	580HP	08H+	1.37	1.86		0	27	P 3
77	146	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	08H+	0.80	0.45		0	<20	P 2
103	146	10/96		H	07H-VS3	07H-VS3		00182	580HP	BW1+	1.70	0.52		0	<20	P 3
105	146	10/96		H	07H-VS3	07H-VS3		00181	580HP	VS2-	0.76	0.88		0	<20	P 3
111	146	10/96		H	07H-VS3	07H-VS3		00182	580HP	BW1-	2.06	0.44		0	<20	P 3
121	146	10/96		H	07H-VS3	07H-VS3		00400	580HP	09H+	0.72	0.67		0	<20	P 3
125	146	10/96		H	07H-VS2	07H-VS2		00396	580HP	BW1+	1.75	0.80		0	<20	P 3

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CUMULATIVE REPORT  
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STEAM GENERATOR : 11  
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ROW	EXAM	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
129	146	10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.82	0.83	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00077	610VS	03C-	1.00	0.82	0	20	P 2	
60	147	10/96	C	TEC-TEH	TEC-TEH		00124	610VS	02C+	7.71	2.78	8	BLI	1	
66	147	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	08C-	1.19	0.58	0	<20	P 2	
96	147	10/96	H	07H-VS3	07H-VS3		00167	580HP	BW1+	1.83	0.38	0	<20	P 3	
98	147	10/96	H	07H-VS3	07H-VS3		00172	580HP	BW1+	1.78	0.47	0	<20	P 3	
104	147	10/96	H	07H-VS3	07H-VS3		00256	580HP	BW1-	1.78	0.50	0	<20	P 3	
118	147	10/96	H	07H-VS3	07H-VS3		00234	580HP	BW1+	1.86	0.90	0	<20	P 3	
120	147	10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.87	0.98	0	<20	P 3	
126	147	10/96	H	07H-VS3	07H-VS3		00234	580HP	BW1-	1.82	0.64	0	<20	P 3	
71	148	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	08H+	0.97	0.41	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00123	610LF	VS3-	0.85	0.42	0	<20	P 2	
79	148	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	VS3-	0.94	0.62	0	<20	P 2	
99	148	10/96	H	07H-VS3	07H-BW1		00174	580HP	BW1+	2.23	0.77	0	<20	P 3	
		10/96	H	07H-VS3	BW1-VS2		00256	580HP	BW1+	2.23	0.97	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	BW1+	2.25	0.36	0	<20	P 2	
105	148	10/96	H	07H-VS3	07H-VS3		00172	580HP	BW1-	1.60	0.33	0	<20	P 3	
119	148	10/96	C	TEC-TEH	TEC-TEH		00023	610VS	09H-	0.14	0.44	0	<20	P 2	
121	148	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.74	0.76	0	<20	P 3	
123	148	10/96	H	07H-VS2	07H-VS2		00240	580HP	BW1-	1.68	0.58	0	<20	P 3	
		10/96	H	07H-VS2	07H-VS2		00240	580HP	BW1+	1.80	0.69	0	<20	P 3	
127	148	10/96	H	07H-VS3	07H-VS3		00235	580HP	VS1+	0.76	0.76	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00078	610VS	VS1+	1.00	0.64	0	<20	P 2	
76	149	10/96	H	VS3-VS3	VS3-VS3		00221	580HP	VS3+	0.74	1.53	0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00122	610VS	VS3+	0.99	1.23	0	27	P 2	
78	149	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	VS3+	0.97	2.69	0	37	P 2	
		10/96	H	VS3-VS3	VS3-VS3		00221	580HP	VS3+	1.11	2.46	0	33	P 3	
96	149	10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.25	1.36	0	22	P 3	
120	149	10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.97	0.73	0	<20	P 3	
122	149	10/96	H	07H-VS2	07H-VS3		00234	580HP	09H-	0.16	0.57	0	<20	P 3	
		10/96	H	07H-VS2	08H-VS2		00234	580HP	09H-	0.14	0.66	0	<20	P 3	
		10/96	H	07H-VS2	07H-VS2		00234	580HP	BW1-	1.84	0.79	0	<20	P 3	
		10/96	H	07H-VS2	08H-VS2		00234	580HP	BW1-	1.63	0.74	0	<20	P 3	
		10/96	H	07H-VS2	07H-VS3		00234	580HP	BW1+	1.89	1.01	0	<20	P 3	
		10/96	H	07H-VS2	08H-VS2		00234	580HP	BW1+	1.95	0.83	0	<20	P 3	
124	149	10/96	H	07H-VS2	07H-VS2		00235	580HP	BW1+	1.81	0.64	0	<20	P 3	
1	150	10/96	C	TEC-07C	TEC-07C		00135	610VS	02C+	0.87	0.44	0	<20	P 2	
61	150	10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1-	2.14	0.77	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00122	610VS	BW1+	2.00	0.59	0	<20	P 2	
		10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1+	2.24	1.55	0	24	P 3	
63	150	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	BW1+	1.91	0.51	0	<20	P 2	
67	150	10/96	C	TEC-TEH	TEC-TEH		00123	610LF	08H+	0.83	0.56	0	<20	P 2	
93	150	10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.19	0.76	0	<20	P 3	
101	150	10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.23	0.76	0	<20	P 3	
109	150	10/96	H	07H-VS3	08H-VS3		00173	580HP	BW1+	2.21	0.79	0	<20	P 3	



## CUMULATIVE REPORT

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STEAM GENERATOR : 11  
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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION.	VOLTS	MIL	DEG	%	CH	CHNG
117	150	10/96		H	07H-VS3	07H-VS3		00256	580HP	BW1+	2.06	1.22		0	20	P	3
121	150	10/96		H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.84	1.33		0	23	P	3
		10/96		C	TEC-TEH	TEC-TEH		00023	610VS	BW1+	1.98	0.44		0	<20	P	2
123	150	10/96		H	07H-VS2	07H-VS3		00234	580HP	BW1-	1.91	0.61		0	<20	P	3
		10/96		H	07H-VS2	07H-VS3		00234	580HP	BW1+	1.82	0.97		0	<20	P	3
129	150	10/96		H	07H-VS3	07H-VS3		00234	580HP	BW1+	2.04	0.52		0	<20	P	3
76	151	10/96		C	TEC-TEH	TEC-TEH		00122	610VS	VS5+	1.05	0.42		0	<20	P	2
82	151	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	08H+	1.03	0.45		0	<20	P	2
86	151	10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.41	0.80		0.3	MVI	P	2
		10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.41	0.49		0.3	MVI	P	3
		10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.41	3.00		6	MVI	P	3
		10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.39	0.70		0.3	MVI	P	2
		10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.39	0.36		0.3	MVI	P	3
		10/96		C	TEC-TSC	TEC-TSC		00184	600HP	TEC+	3.39	4.00		3	MVI	P	3
90	151	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+	1.48	0.58		0	<20	P	3
94	151	10/96		H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.72	0.36		0	<20	P	3
98	151	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+	1.73	0.77		0	<20	P	3
114	151	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+	1.80	0.26		0	<20	P	3
120	151	10/96		H	07H-VS3	08H-VS3		00235	580HP	BW1+	1.77	0.80		0	<20	P	3
		10/96		C	TEC-TEH	TEC-TEH		00023	610VS	BW1+	1.89	0.39		0	<20	P	2
122	151	10/96		H	07H-VS2	07H-VS2		00395	580HP	BW1+	1.63	0.68		0	<20	P	3
		10/96		C	TEC-TEH	TEC-TEH		00077	610VS	BW1+	1.90	0.32		0	<20	P	2
51	152	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	BW1+	2.02	0.33		0	<20	P	2
63	152	10/96		H	BW1-BW1	BW1-BW1		00221	580HP	BW1-	1.94	1.25		0	20	P	3
		10/96		C	TEC-TEH	TEC-TEH		00123	610LF	BW1-	1.86	0.38		0	<20	P	2
		10/96		C	TEC-TEH	TEC-TEH		00123	610LF	BW1+	1.89	0.88		0	<20	P	2
		10/96		H	BW1-BW1	BW1-BW1		00221	580HP	BW1+	2.08	2.22		0	31	P	3
67	152	10/96		C	TEC-TEH	TEC-TEH		00123	610LF	08H+	0.09	0.68		0	<20	P	2
105	152	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	2.30	0.61		0	<20	P	3
109	152	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.86	0.83		0	<20	P	3
113	152	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.51	0.38		0	<20	P	3
117	152	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.88	1.08		0	<20	P	3
121	152	10/96		H	07H-VS3	07H-VS3		00235	580HP	BW1+	1.75	0.55		0	<20	P	3
123	152	10/96		H	07H-VS2	07H-VS2		00395	580HP	BW1+	1.81	0.54		0	<20	P	3
62	153	10/96		H	BW1-BW1	BW1-BW1		00221	580HP	BW1+	1.49	1.84		0	27	P	3
		10/96		C	TEC-TEH	TEC-TEH		00120	610LF	BW1+	2.07	0.82		0	<20	P	2
66	153	10/96		C	TEC-TEH	TEC-TEH		00120	610LF	08H+	1.70	0.78		0	<20	P	2
		10/96		H	08H-08H	08H-BW1		00221	580HP	08H+	1.88	0.41		0	<20	P	3
		10/96		H	08H-08H	08H-BW1		00221	580HP	BW1-	2.51	1.11		0	<20	P	3
		10/96		C	TEC-TEH	TEC-TEH		00120	610LF	BW1-	2.00	0.39		0	<20	P	2
90	153	10/96		H	07H-VS3	07H-VS3		00165	580HP	BW1+	1.55	0.74		0	<20	P	3
96	153	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.06	0.99		0	<20	P	3
110	153	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.82	1.02		0	<20	P	3
		10/96		C	TEC-TEH	TEC-TEH		00014	610VS	BW1+	2.00	0.37		0	<20	P	2
114	153	10/96		H	07H-VS3	07H-VS3		00166	580HP	BW1+	1.43	1.15		0	21	P	3

ROCKRIDGE TECHNOLOGIES



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
116	153	10/96		H	07H-VS3	07H-VS3			00163	580HP	BW1-	1.63	0.66		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00163	580HP	BW1+	1.70	0.76		0	<20	P 3
63	154	10/96		C	TEC-TEH	TEC-TEH			00120	610LF	BW1+	1.78	0.50		0	<20	P 2
69	154	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	08H+	1.04	0.53		0	<20	P 2
113	154	10/96		H	07H-VS3	07H-VS3			00166	580HP	BW1+	1.79	0.78		0	<20	P 3
115	154	10/96		H	07H-VS3	07H-VS3			00163	580HP	BW1+	1.83	0.77		0	<20	P 3
62	155	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	BW1+	2.07	0.62		0	<20	P 2
66	155	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	08H+	1.59	0.84		0	21	P 2
80	155	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS3+	1.03	0.58		0	<20	P 2
88	155	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	BW1+	1.84	0.40		0	<20	P 2
90	155	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1+	1.99	0.86		0	<20	P 3
		10/96		C	TEC-TEH	TEC-TEH			00015	610VS	BW1+	2.17	0.25		0	<20	P 2
92	155	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1-	1.76	0.67		0	<20	P 3
96	155	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1+	1.75	0.61		0	<20	P 3
100	155	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1-	1.94	0.57		0	<20	P 3
102	155	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1+	1.82	0.50		0	<20	P 3
104	155	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1+	1.58	0.68		0	<20	P 3
110	155	10/96		H	07H-VS3	07H-VS3			00166	580HP	BW1+	1.57	0.95		0	<20	P 3
114	155	10/96		C	TEC-TEH	TEC-TEH			00014	610VS	BW1-	2.14	0.24		0	<20	P 2
		10/96		H	07H-VS3	07H-VS3			00166	580HP	BW1-	1.79	0.79		0	<20	P 3
		10/96		H	07H-VS3	07H-VS3			00166	580HP	BW1+	1.79	0.79		0	<20	P 3
65	156	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	BW1-	1.78	0.36		0	<20	P 2
75	156	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	08H+	1.06	0.44		0	<20	P 2
93	156	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1+	1.75	0.92		0	<20	P 3
103	156	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1+	1.65	0.57		0	<20	P 3
105	156	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1+	1.62	0.65		0	<20	P 3
111	156	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1+	1.68	0.93		0	<20	P 3
113	156	10/96		H	07H-VS3	07H-VS3			00155	580HP	BW1+	1.75	0.50		0	<20	P 3
121	156	10/96		C	TEC-TEH	TEC-TEH			00078	610VS	04C-	0.03	0.41		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00078	610VS	03C+	0.74	0.56		0	<20	P 2
52	157	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	BW1-	2.17	0.32		0	<20	P 2
68	157	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	08H-	0.82	0.31		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00116	610VS	08H+	0.91	0.57		0	<20	P 2
70	157	10/96		C	TEC-TEH	TEC-TEH			00117	610VS	08H+	0.96	0.43		0	<20	P 2
72	157	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	BW1+	2.14	0.38		0	<20	P 2
74	157	10/96		C	TEC-TEH	TEC-TEH			00117	610VS	BW1-	2.13	0.25		0	<20	P 2
76	157	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS3+	0.86	1.75		0	33	P 2
		10/96		H	VS3-VS3	VS3-VS3			00221	580HP	VS3+	0.97	2.17		0	30	P 3
		10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS5-	0.75	0.74		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS5+	1.03	0.39		0	<20	P 2
78	157	10/96		C	TEC-TEH	TEC-TEH			00117	610VS	VS3+	1.00	0.86		0	<20	P 2
80	157	10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS3+	0.97	0.55		0	<20	P 2
		10/96		C	TEC-TEH	TEC-TEH			00116	610VS	VS5+	0.91	0.55		0	<20	P 2
94	157	10/96		H	07H-VS3	07H-VS3			00154	580HP	BW1+	1.96	1.39		0	23	P 3
		10/96		C	TEC-TEH	TEC-TEH			00015	610VS	BW1+	1.99	0.46		0	<20	P 2



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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	EXAM	EXAM EXTENT	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	
108	157	10/96	H	07H-VS3	07H-VS3		00162	580HP BW1+	1.76
112	157	10/96	H	07H-VS3	07H-VS3		00155	580HP BW1-	1.75
116	157	10/96	H	07H-VS3	07H-VS3		00162	580HP 09H+	0.97
		10/96	H	07H-VS3	07H-VS3		00162	580HP BW1+	1.71
57	158	10/96	C	TEC-TEH	TEC-TEH		00116	610VS 04H+	3.63
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS 03H+	38.27
63	158	10/96	C	TEC-TEH	TEC-TEH		00117	610VS BW1+	1.92
67	158	10/96	C	TEC-TEH	TEC-TEH		00117	610VS 08H-	1.00
		10/96	C	TEC-TEH	TEC-TEH		00117	610VS BW1-	2.13
69	158	10/96	C	TEC-TEH	TEC-TEH		00116	610VS 08H+	0.97
79	158	10/96	C	TEC-TEH	TEC-TEH		00117	610VS VS3+	0.88
81	158	10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS3+	0.94
		10/96	H	VS3-VS3	VS3-VS3		00221	580HP VS3+	1.27
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS5+	0.08
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS5+	0.86
105	158	10/96	H	07H-VS3	07H-VS3		00154	580HP VS2-	1.07
107	158	10/96	H	07H-VS3	08H-VS2		00256	580HP BW1-	1.75
117	158	10/96	H	07H-VS3	07H-VS3		00155	580HP BW1-	1.75
		10/96	H	07H-VS3	07H-VS3		00155	580HP BW1+	1.75
62	159	10/96	C	TEC-TEH	TEC-TEH		00117	610VS BW1+	2.17
64	159	10/96	C	TEC-TEH	TEC-TEH		00116	610VS BW1+	1.93
68	159	10/96	C	TEC-TEH	TEC-TEH		00116	610VS 01C-	0.95
76	159	10/96	C	TEC-TEH	TEC-TEH		00116	610VS 08H-	0.08
		10/96	H	VS3-VS3	VS3-VS3		00221	580HP VS3-	1.13
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS3-	0.86
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS3+	0.92
		10/96	H	VS3-VS3	VS3-VS3		00221	580HP VS3+	1.09
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS VS5+	0.92
90	159	10/96	C	TEC-TEH	TEC-TEH		00013	610VS BW1+	2.01
		10/96	H	07H-VS3	07H-VS3		00154	580HP BW1+	2.08
96	159	10/96	C	TEC-TEH	TEC-TEH		00015	610VS 08H+	0.99
98	159	10/96	H	07H-VS3	07H-VS3		00154	580HP BW1+	2.02
104	159	10/96	H	07H-VS3	07H-VS3		00157	580HP BW1+	1.84
108	159	10/96	H	07H-VS3	07H-VS3		00155	580HP BW1-	1.75
116	159	10/96	H	07H-VS3	07H-VS3		00154	580HP 09H+	1.22
1	160	10/96	C	TEC-07C	TEC-07C		00135	610VS 02C+	0.11
51	160	10/96	C	TEC-TEH	TEC-TEH		00117	610VS BW1+	2.00
61	160	10/96	C	TEC-TEH	TEC-TEH		00116	610VS BW1+	2.24
83	160	10/96	C	TEC-TEH	TEC-TEH		00117	610VS VS3-	0.90
103	160	10/96	H	07H-VS3	07H-VS3		00156	580HP BW1+	1.63
105	160	10/96	H	07H-VS3	07H-VS3		00157	580HP BW1+	1.74
107	160	10/96	C	TEC-TEH	TEC-TEH		00077	610VS 08H+	0.82
		10/96	H	07H-VS3	07H-VS3		00154	580HP BW1+	1.75
109	160	10/96	H	07H-VS3	07H-VS3		00155	580HP BW1+	1.56
54	161	10/96	C	TEC-TEH	TEC-TEH		00117	610VS BW1+	2.00



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
62	161	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1+	2.00	0.31	0	<20	P 2
64	161	10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1-	1.56	0.77	0	<20	P 3
		10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1+	1.87	1.20	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS	BW1+	1.92	0.47	0	<20	P 2
66	161	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1-	2.00	0.33	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1+	2.00	0.15	0	<20	P 2
68	161	10/96	C	TEC-TEH	TEC-TEH		00116	610VS	08H+	0.96	0.59	0	<20	P 2
78	161	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	VS3-	0.85	1.17	0	24	P 2
86	161	10/96	C	TEC-TEH	TEC-TEH		00116	610VS	BW1+	2.16	0.26	0	<20	P 2
106	161	10/96	C	TEC-TEH	TEC-TEH		00077	610VS	BW1-	2.23	0.35	0	<20	P 2
39	162	10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	37.47	5.39	.4	SVI	P 2
		10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	37.47	7.17	.3	SVI	P 3
		10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	37.47	7.00	11	SVI	P 3
		10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	32.10	3.39	.4	SVI	P 2
		10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	32.10	0.93	.2	SVI	P 3
		10/96	C	05C-06C	05C-06C	1	00196	580HP	05C+	32.10	2.00	6	SVI	P 3
53	162	10/96	C	TEC-TEH	TEC-TEH		00116	610VS	BW1+	2.03	0.35	0	<20	P 2
63	162	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1-	2.04	0.48	0	<20	P 2
65	162	10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1-	1.99	0.66	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00116	610VS	BW1+	1.77	0.70	0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1		00221	580HP	BW1+	1.78	1.69	0	25	P 3
67	162	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1+	2.00	0.19	0	<20	P 2
69	162	10/96	C	TEC-TEH	TEC-TEH		00116	610VS	08H+	0.94	0.53	0	<20	P 2
81	162	10/96	C	TEC-TEH	TEC-TEH		00116	610VS	VS3-	0.66	0.59	0	<20	P 2
87	162	10/96	C	TEC-TEH	TEC-TEH		00117	610VS	BW1+	2.13	0.21	0	<20	P 2
50	163	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1+	2.16	0.27	0	<20	P 2
62	163	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1+	2.00	0.37	0	<20	P 2
64	163	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	BW1+	1.75	0.33	0	<20	P 2
72	163	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS3-	0.95	0.43	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS3+	0.89	0.97	0	23	P 2
		10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS5-	0.75	0.34	0	<20	P 2
92	163	10/96	C	TEC-TEH	TEC-TEH		00012	610VS	08H+	0.89	0.40	0	<20	P 2
102	163	10/96	C	TEC-TEH	TEC-TEH		00077	610VS	BW1+	2.05	0.37	0	<20	P 2
108	163	10/96	H	BW1-BW1	BW1-BW1		00157	580HP	BW1+	1.98	1.55	0	26	P 3
		10/96	C	TEC-TEH	TEC-TEH		00078	610VS	BW1+	2.00	0.92	0	<20	P 2
79	164	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	VS3+	0.98	0.45	0	<20	P 2
87	164	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1+	2.00	0.43	0	<20	P 2
54	165	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1+	2.08	0.35	0	<20	P 2
62	165	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1+	2.11	0.31	0	<20	P 2
66	165	10/96	C	TEC-TEH	TEC-TEH		00115	610VS	BW1-	2.15	0.28	0	<20	P 2
72	165	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS3-	0.93	0.63	0	<20	P 2
76	165	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS3-	0.54	0.68	0	<20	P 2
80	165	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	VS3-	0.83	0.40	0	<20	P 2
1	166	10/96	C	TEC-07C	TEC-07C		00135	610VS	02C+	0.78	0.82	0	<20	P 2
61	166	10/96	C	TEC-TEH	TEC-TEH		00114	610VS	BW1+	1.76	0.41	0	<20	P 2



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## CUMULATIVE REPORT

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STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
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ROW	LIN	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
67	166	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS5-	0.62	0.79		0	<20	P 2		
89	166	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	BW1+	2.23	0.41		0	<20	P 2		
103	166	10/96			C	TEC-TEH	TEC-TEH	00078	610VS	08H+	0.09	0.31		0	<20	P 2		
60	167	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	BW1+	2.21	0.37		0	<20	P 2		
66	167	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	BW1-	2.09	0.26		0	<20	P 2		
70	167	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS5+	0.71	0.77		0	<20	P 2		
72	167	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	08H-	0.92	0.36		0	<20	P 2		
76	167	10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3-	0.84	1.71		0	25	P 3		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3-	0.61	1.72		0	33	P 2		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS5-	0.89	0.59		0	<20	P 2		
94	167	10/96			C	TEC-TEH	TEC-TEH	00077	610VS	BW1+	1.80	0.32		0	<20	P 2		
98	167	10/96			C	TEC-TEH	TEC-TEH	00078	610VS	BW1+	2.00	0.28		0	<20	P 2		
		10/96			C	TEC-TEH	TEC-TEH	00078	610VS	BW2+	1.79	0.29		0	<20	P 2		
100	167	10/96			C	TEC-TEH	TEC-TEH	00077	610VS	BW1+	2.16	0.32		0	<20	P 2		
102	167	10/96			C	TEC-TEH	TEC-TEH	00078	610VS	BW1+	1.92	0.96		0	<20	P 2		
		10/96			H	BW1-BW1	BW1-BW1	00157	580HP	BW1+	1.92	2.05		0	30	P 3		
49	168	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	BW2-	1.91	0.31		0	<20	P 2		
61	168	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	BW1+	2.00	0.43		0	<20	P 2		
67	168	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS5-	0.71	0.93		0	21	P 2		
81	168	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3+	0.97	1.37		0	29	P 2		
		10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3+	0.98	1.49		0	23	P 3		
		10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3+	1.19	1.09		0	<20	P 3		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS5+	0.06	2.30		0	38	P 2		
99	168	10/96			C	TEC-TEH	TEC-TEH	00078	610VS	BW2+	2.00	0.16		0	<20	P 2		
		10/96			C	TEC-TEH	TEC-TEH	00078	610VS	04C+	0.89	0.52		0	<20	P 2		
46	169	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS4-	0.76	0.42		0	<20	P 2		
66	169	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	BW1-	1.93	0.22		0	<20	P 2		
70	169	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS3-	0.76	1.19		0	25	P 2		
		10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3-	0.68	1.34		0	21	P 3		
76	169	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3-	0.71	1.60		0	32	P 2		
		10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3-	0.68	1.83		0	27	P 3		
		10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3+	0.93	1.12		0	<20	P 3		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3+	0.99	0.54		0	<20	P 2		
96	169	10/96			C	TEC-TEH	TEC-TEH	00078	610VS	BW1+	1.88	0.34		0	<20	P 2		
55	170	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS3+	0.90	0.43		0	<20	P 2		
63	170	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	BW1+	1.78	0.39		0	<20	P 2		
71	170	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS3-	0.86	0.56		0	<20	P 2		
79	170	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	VS3+	0.90	0.75		0	<20	P 2		
81	170	10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3-	0.75	0.44		0	<20	P 2		
62	171	10/96			C	TEC-TEH	TEC-TEH	00115	610VS	BW1+	1.93	0.24		0	<20	P 2		
72	171	10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3-	0.76	1.28		0	20	P 3		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS3-	0.65	1.07		0	25	P 2		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS5-	0.84	1.02		0	24	P 2		
		10/96			C	TEC-TEH	TEC-TEH	00114	610VS	VS5+	0.96	1.52		0	31	P 2		
76	171	10/96			H	VS3-VS3	VS3-VS3	00221	580HP	VS3+	0.92	2.20		0	31	P 3		



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	EXAM	EXAM EXTENT	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS3+ 0.96	2.83		0	41	P 2	
78	171	10/96	C TEC-TEH TEC-TEH		00115	610VS	VS3+ 0.87	0.43		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH		00115	610VS	VS5- 0.89	0.78		0	<20	P 2	
37	172	10/96	C TEC-TEH TEC-TEH		00082	580VS	VS4- 0.73	0.27		0	<20	P 2
51	172	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS4- 0.97	0.61		0	<20	P 2
67	172	10/96	C TEC-TEH TEC-TEH		00114	610VS	08H+ 0.98	0.52		0	<20	P 2
71	172	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS3- 0.95	0.40		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS5- 0.90	0.62		0	<20	P 2	
66	173	10/96	C TEC-TEH TEC-TEH		00115	610VS	08H+ 1.01	0.63		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH		00115	610VS	VS3- 0.56	0.77		0	<20	P 2	
68	173	10/96	C TEC-TEH TEC-TEH		00114	610VS	08H+ 0.95	0.47		0	<20	P 2
70	173	10/96	C TEC-TEH TEC-TEH		00115	610VS	VS5+ 0.03	0.52		0	<20	P 2
72	173	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS3- 0.90	0.60		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH		00114	610VS	VS5+ 0.87	0.73		0	<20	P 2	
80	173	10/96	C TEC-TEH TEC-TEH		00130	610VS	VS3+ 1.00	0.52		0	<20	P 2
1	174	10/96	C 03C-03C 03C-03C	1	00181	560HP	03C+ 0.84	1.85		0	25	P 3
	10/96	C TEC-07C TEC-07C		00135	610VS	03C+ 0.76	1.20		0	24	P 2	
57	174	10/96	C TEC-TEH TEC-TEH		00114	610VS	07H+ 0.89	0.57		0	<20	P 2
67	174	10/96	C TEC-TEH TEC-TEH		00115	610VS	BW1- 1.79	0.35		0	<20	P 2
69	174	10/96	C TEC-TEH TEC-TEH		00114	610VS	BW1+ 1.91	0.19		0	<20	P 2
44	175	10/96	C TEC-TEH TEC-TEH		00080	610VS	VS4- 0.73	0.38		0	<20	P 2
62	175	10/96	C TEC-TEH TEC-TEH		00114	610VS	BW1+ 1.76	0.36		0	<20	P 2
16	177	10/96	H TSH-TSH TSH-TSH		00057	600HP	TSH- 0.16	0.00		0	SCI	P 2
	10/96	H TSH-TSH TSH-TSH		00057	600HP	TSH- 0.16	0.71		0.2	SCI	P 4	
	10/96	H TSH-TSH TSH-TSH		00057	600HP	TSH- 0.16	0.00		49	SCI	P 4	
66	177	10/96	C TEC-TEH TEC-TEH		00131	610LF	08H+ 1.25	0.44		0	<20	P 2
1	178	10/96	C 07C-BW2 07C-BW2		00181	560HP	BW2+ 8.74				OBS	
	10/96	C TEC-07C TEC-07C		00135	610VS	02C- 1.03	0.78		0	<20	P 2	
49	178	10/96	C TEC-TEH TEC-TEH		00114	610VS	BW1- 1.84	0.33		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH		00114	610VS	BW1+ 1.89	0.28		0	<20	P 2	
57	178	10/96	C TEC-TEH TEC-TEH		00114	610VS	07H+ 0.88	0.39		0	<20	P 2
61	178	10/96	C TEC-TEH TEC-TEH		00114	610VS	07H+ 0.80	0.35		0	<20	P 2
73	178	10/96	C 03C-03C 03C-03C	1	00196	580HP	03C- 0.18	0.80		0	<20	P 3
	10/96	C 03C-03C 03C-03C	1	00196	580HP	03C- 0.84	1.01		0	<20	P 3	
40	179	10/96	C TEC-TEH TEC-TEH		00080	610VS	BW1- 2.00	0.16		0	<20	P 2
45	180	10/96	C TEC-TEH TEC-TEH		00115	610VS	VS4- 0.76	0.50		0	<20	P 2
59	180	10/96	C TEC-TEH TEC-TEH		00130	610VS	06H+ 17.37	1.33		9	BLI	1
	10/96	C TEC-TEH TEC-TEH		00130	610VS	01C+ 19.29	2.67		4	BLI	1	
	10/96	C TEC-TEH TEC-TEH		00130	610VS	TSC+ 6.53	2.61		4	BLI	1	
67	180	10/96	C TEC-TEH TEC-TEH		00130	610VS	07H+ 23.07	2.44		2	BLI	P 1
36	181	10/96	C TEC-TEH TEC-TEH		00080	610VS	VS4- 0.73	0.38		0	<20	P 2
50	181	10/96	C TEC-TEH TEC-TEH		00131	610LF	BW1+ 1.76	0.24		0	<20	P 2
41	182	10/96	C TEC-TEH TEC-TEH		00080	610VS	BW1+ 2.14	0.16		0	<20	P 2
53	182	10/96	C TSC-TSC TSC-TSC	1	00196	580HP	TSC+ 0.51	1.53		.3	SVI	P 2
	10/96	C TSC-TSC TSC-TSC	1	00196	580HP	TSC+ 0.51	0.56		.3	SVI	P 3	



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	LIN	DATE	HEAT#	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	°	CH	CHNG
		10/96		C	TSC-TSC	TSC-TSC	1	00196	580HP	TSC+	0.51	175.0	59	SVI	P 3	
55	182	10/96		C	TEC-TEH	TEC-TEH		00147	610VS	VS4+	0.96	0.23	0	<20	P 2	
52	183	10/96		C	TEC-TEH	TEC-TEH		00131	610LF	BW1+	2.09	0.26	0	<20	P 2	
		10/96		C	TSC-TSC	TSC-TSC	1	00196	580HP	TSC+	0.21	3.37	.7	SVI	P 2	
		10/96		C	TSC-TSC	TSC-TSC	1	00196	580HP	TSC+	0.21	1.04	.7	SVI	P 3	
		10/96		C	TSC-TSC	TSC-TSC	1	00196	580HP	TSC+	0.21	156.0	44	SVI	P 3	
30	185	10/96		C	TEC-TEH	TEC-TEH		00131	610LF	VS4-	0.65	0.55	0	<20	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00131	610LF	VS4+	0.85	0.35	0	<20	P 2	
42	185	10/96		C	TEC-TEH	TEC-TEH		00131	610LF	BW1+	1.90	0.35	0	<20	P 2	
37	186	10/96		C	TEC-TEH	TEC-TEH		00131	610LF	VS4+	0.85	0.42	0	<20	P 2	
39	186	10/96		C	TEC-TEH	TEC-TEH		00130	610VS	05C-	1.02	1.03	0	22	P 2	
		10/96		C	TEC-TEH	TEC-TEH		00130	610VS	04C-	0.91	0.70	0	<20	P 2	
3	188	10/96		C	TEC-07H	TEC-07H		00173	580SF	05C+	0.81	0.75	0	<20	P 2	
		10/96		C	TEC-07H	TEC-07H		00173	580SF	04C+	0.89	0.61	0	<20	P 2	
		10/96		C	TEC-07H	TEC-07H		00173	580SF	03C+	0.97	0.58	0	<20	P 2	
		10/96		C	TEC-07H	TEC-07H		00173	580SF	03C-	0.98	0.38	0	<20	P 2	
		10/96		C	TEC-07H	TEC-07H		00173	580SF	01C-	0.95	0.69	0	<20	P 2	
23	188	10/96		C	TEC-TEH	TEC-TEH		00131	610LF	04C+	0.03	0.47	0	<20	P 2	

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 1302

NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 2133

NO TREND ANALYSIS REQUESTED

## DATA SELECTION CRITERIA:

Percent: MAI,MCI,MMI,SAI,SCI,BLI,MVI,SVI,OBS, 0 to 100%

## REPORT OPTIONS:

Only examination results matching criteria are included



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
12	1	10/96	C	TEC-TEH	TEC-TEH			00165	610VS	04C-	0.99	0.40		0	<20	P 2
17	2	10/96	C	TEC-TEH	TEC-TEH			00166	610VS	06C+	0.89	0.29		0	<20	P 2
23	2	10/96	C	TEC-TEH	TEC-TEH			00165	610VS	02C-	1.07	0.36		0	<20	P 2
25	2	10/96	C	TEC-TEH	TEC-TEH			00166	610VS	03C+	0.78	0.56		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00166	610VS	02C+	0.83	0.30		0	<20	P 2
14	3	10/96	C	TEC-TEH	TEC-TEH			00165	610VS	04C-	0.98	0.32		0	<20	P 2
22	3	10/96	C	TEC-TEH	TEC-TEH			00165	610VS	05C-	0.05	0.92		0	22	P 2
		10/96	C	TEC-TEH	TEC-TEH			00165	610VS	03C+	0.05	0.57		0	<20	P 2
30	3	10/96	C	TEC-TEH	TEC-TEH			00180	610LF	04C-	0.95	0.45		0	<20	P 2
32	3	10/96	C	TEC-TEH	TEC-TEH			00180	610LF	04C-	0.99	0.62		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00180	610LF	03C-	0.98	0.39		0	<20	P 2
32	5	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	VS4+	0.71	0.49		0	<20	P 2
46	5	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	04C+	0.90	0.81		0	<20	P 2
37	6	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	TSH+	11.86	2.91		3	BLI	1
		10/96	C	TEC-TEH	TEC-TEH			00164	610VS	04C+	0.00	0.39		0	<20	P 2
45	6	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	07H-	1.02	0.52		0	<20	P 2
47	6	10/96	C	TEC-TEH	TEC-TEH			00163	610VS	VS4-	0.77	0.56		0	<20	P 2
51	6	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	VS3+	1.16	0.45		0	<20	P 2
59	8	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	07H+	0.84	0.34		0	<20	P 2
36	9	10/96	C	TEC-TEH	TEC-TEH			00112	610VS	VS4+	0.88	0.42		0	<20	P 2
1	12	10/96	H	TEH-07H	TEH-07H			00272	610VS	04H+	0.86	0.39		0	<20	P 2
55	12	10/96	C	TEC-TEH	TEC-TEH			00134	610VS	BW1+	2.18	0.26		0	<20	P 2
71	12	10/96	C	TEC-TEH	TEC-TEH			00164	610VS	01C+	15.08	0.25		133	<20	P 1
54	13	10/96	C	TEC-TEH	TEC-TEH			00134	610VS	BW1+	2.21	0.27		0	<20	P 2
49	14	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS4+	0.90	0.34		0	<20	P 2
54	15	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	BW1+	2.20	0.23		0	<20	P 2
74	15	10/96	C	TEC-TEH	TEC-TEH			00180	610LF	BW1+	1.98	0.24		0	<20	P 2
53	16	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS3+	1.15	0.52		0	<20	P 2
61	16	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.76	0.25		0	<20	P 2
58	17	10/96	H	BW1-VS3	BW1-VS3	5		00496	580HP	BW1+	1.80	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00136	610VS	BW1+	2.21	0.12		0	<20	P 2
62	17	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	VS3-	0.07	0.44		0	<20	P 2
66	17	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	08H+	2.10	0.48		0	<20	P 2
72	17	10/96	H	VS3-VS3	VS3-VS3			00481	580HP	VS3+	0.86	1.62		0	23	P 3
		10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS3+	1.01	1.55		0	30	P 2
		10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS5+	0.86	0.36		0	<20	P 2
47	18	10/96	H	TSH-TSH	TSH-TSH			00155	600HP	TSH-	0.13	0.00		0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH			00155	600HP	TSH-	0.13	0.22		0.1	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH			00155	600HP	TSH-	0.13	0.00		56	SCI	P 4
71	18	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS3+	0.99	0.57		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS5+	0.77	0.27		0	<20	P 2
91	18	10/96	C	TEC-TEH	TEC-TEH			00162	610LF	04C+	0.00	0.98		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00162	610LF	04C-	0.97	1.08		0	20	P 2
60	19	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.81	0.27		0	<20	P 2
64	19	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.95	0.21		0	<20	P 2



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	°	CH	CHNG
66	19	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	08H-	1.01		0.65		0	<20	P 2	
70	19	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS3+	0.95		0.53		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS5+	0.70		0.58		0	<20	P 2	
74	19	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS5+	0.94		0.41		0	<20	P 2	
1	20	10/96	C	TEC-07C	TEC-07C	00168	610VS	04C+	0.98		0.47		0	<20	P 2	
59	20	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	02H+	23.34		0.14	142	<20	1		
93	20	10/96	H	04H-05H	04H-05H	00263	580HP	04H+	36.90		0.32		0.2	SVI	P 2	
		10/96	H	04H-05H	04H-05H	00263	580HP	04H+	36.90		0.77		0.2	SVI	P 3	
		10/96	H	04H-05H	04H-05H	00263	580HP	04H+	36.90		62.00		62	SVI	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00072	610VS	04H+	37.18		0.50		130	30	P 1	
95	20	10/96	H	VS2-VS3	VS2-VS3	1	00481	580HP	VS2+	16.50		0.78		0.5	SVI	P 2
		10/96	H	VS2-VS3	VS2-VS3	1	00481	580HP	VS2+	16.50		0.71		0.5	SVI	P 3
		10/96	H	VS2-VS3	VS2-VS3	1	00481	580HP	VS2+	16.50		39.00		38	SVI	P 3
60	21	10/96	C	01C-02C	01C-02C	1	00241	580HP	01C+	7.50		0.21		0.2	SVI	P 2
		10/96	C	01C-02C	01C-02C	1	00241	580HP	01C+	7.50		0.39		0.2	SVI	P 3
		10/96	C	01C-02C	01C-02C	1	00241	580HP	01C+	7.50		7.00		32	SVI	P 3
94	21	10/96	C	TEC-TEH	TEC-TEH	00072	610VS	VS3-	1.05		1.02		0	23	P 2	
		10/96	H	VS3-VS3	VS3-VS3	5	00495	580HP	VS3-	1.05		1.49		0	24	P 3
17	22	10/96	C	TEC-TEH	TEC-TEH	00116	610VS	05C+	0.93		0.47		0	<20	P 2	
71	22	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	08H+	0.98		0.38		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS3-	0.86		0.39		0	<20	P 2	
83	22	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.22		0.30		0	<20	P 2	
99	22	10/96	C	TEC-TEH	TEC-TEH	00073	610VS	03C+	0.94		1.29		0	27	P 2	
62	23	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	1.94		0.23		0	<20	P 2	
68	23	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	VS3-	0.70		0.57		0	<20	P 2	
98	23	10/96	C	TEC-TEH	TEC-TEH	00073	610VS	03C+	0.94		0.64		0	<20	P 2	
69	24	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1+	1.82		0.22		0	<20	P 2	
103	24	10/96	C	TEC-TEH	TEC-TEH	00073	610VS	04C+	0.80		0.65		0	<20	P 2	
64	25	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1+	2.13		0.27		0	<20	P 2	
68	25	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1-	1.92		0.29		0	<20	P 2	
80	25	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1-	1.86		0.15		0	<20	P 2	
67	26	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1-	2.19		0.26		0	<20	P 2	
71	26	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.10		0.21		0	<20	P 2	
79	26	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.10		0.24		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS3+	0.87		0.37		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS5+	0.94		0.42		0	<20	P 2	
99	26	10/96	C	TEC-TEH	TEC-TEH	00029	610VS	BW1+	2.12		0.29		0	<20	P 2	
60	27	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	VS3+	1.02		0.34		0	<20	P 2	
66	27	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.06		0.23		0	<20	P 2	
74	27	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	VS3-	0.87		0.42		0	<20	P 2	
71	28	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1+	1.75		0.48		0	<20	P 2	
75	28	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.20		0.25		0	<20	P 2	
99	28	10/96	C	TEC-TEH	TEC-TEH	00029	610VS	BW1+	2.13		0.37		0	<20	P 2	
101	28	10/96	C	TEC-TEH	TEC-TEH	00030	610VS	BW1+	1.95		0.31		0	<20	P 2	
70	29	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.25		0.22		0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
74	29	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	VS3-	0.87	0.49	0	<20	P 2	
76	29	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS3-	0.86	1.60	0	30	P 2	
		10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS5+	1.01	0.94	0	21	P 2	
104	29	10/96	C	TEC-TEH	TEC-TEH			00029	610VS	BW1+	2.11	0.34	0	<20	P 2	
85	30	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.86	0.32	0	<20	P 2	
91	30	10/96	H	07H-VS3	07H-VS3			00259	580HP	BW1+	2.00	0.58	0	<20	P 3	
95	30	10/96	H	07H-VS3	07H-VS3			00263	580HP	BW1+	1.77	0.58	0	<20	P 3	
101	30	10/96	H	07H-VS3	07H-VS3			00260	580HP	BW1+	1.89	0.48	0	<20	P 3	
109	30	10/96	H	07H-VS3	07H-VS3			00260	580HP	BW1+	1.94	1.09	0	<20	P 3	
113	30	10/96	H	07H-VS3	07H-VS3			00264	580HP	BW1-	1.83	0.64	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00264	580HP	BW1+	1.80	0.64	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-02H			00073	610VS	BW1+	1.93	0.23	0	<20	P 2	
48	31	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS4-	0.79	0.32	0	<20	P 2	
64	31	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS5-	0.78	0.39	0	<20	P 2	
84	31	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	07H+	0.87	0.29	0	<20	P 2	
86	31	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	BW1+	2.00	0.31	0	<20	P 2	
102	31	10/96	H	07H-VS3	07H-VS3			00259	580HP	BW1+	1.75	0.58	0	<20	P 3	
112	31	10/96	H	07H-VS3	07H-VS3			00260	580HP	BW1-	1.86	0.64	0	<20	P 3	
116	31	10/96	H	07H-VS3	07H-VS3			00264	580HP	09H-	0.43	1.32	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00264	580HP	BW1-	2.05	0.81	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00073	610VS	BW1-	1.86	0.44	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3			00264	580HP	BW1+	2.20	0.74	0	<20	P 3	
51	32	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS4-	0.93	0.91	0	21	P 2	
65	32	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	VS3-	0.72	0.50	0	<20	P 2	
79	32	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	VS3-	0.80	0.50	0	<20	P 2	
85	32	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.88	0.46	0	<20	P 2	
91	32	10/96	H	07H-VS3	07H-VS3			00259	580HP	BW1+	1.95	0.72	0	<20	P 3	
95	32	10/96	C	TEC-TEH	TEC-TEH			00030	610VS	VS2+	0.74	0.28	0	<20	P 2	
101	32	10/96	H	07H-VS3	07H-VS3			00260	580HP	BW1+	2.00	0.55	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00260	580HP	VS3+	0.79	0.90	0	<20	P 3	
111	32	10/96	H	07H-VS3	07H-VS3			00257	580HP	VS2-	0.28	1.00	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00072	610VS	VS2-	0.12	0.48	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3			00257	580HP	VS3-	1.27	0.66	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00072	610VS	VS3-	0.53	0.36	0	<20	P 1	
66	33	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	08H-	0.87	0.44	0	<20	P 2	
68	33	10/96	C	TEC-TEH	TEC-TEH			00136	610VS	BW1-	1.97	0.36	0	<20	P 2	
82	33	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS3+	1.04	0.59	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH			00135	610VS	VS5+	0.89	0.68	0	<20	P 2	
86	33	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	1.87	0.30	0	<20	P 2	
110	33	10/96	H	07H-VS3	BW1-VS3			00259	580HP	BW1+	1.75	0.75	0	<20	P 3	
118	33	10/96	H	07H-VS3	07H-VS3			00266	580HP	BW1+	1.94	0.79	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00075	610VS	BW1+	2.00	0.22	0	<20	P 2	
65	34	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	2.05	0.27	0	<20	P 2	
81	34	10/96	C	TEC-TEH	TEC-TEH			00135	610VS	BW1+	2.04	0.35	0	<20	P 2	
117	34	10/96	H	07H-VS3	07H-VS3			00258	580HP	09H-	0.93	0.76	0	<20	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS3	07H-VS3	00258	580HP	09H+	0.63		0.83		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	09H+	0.84		0.79		0	<20	P 2	
119	34	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	09H-	1.03		0.44		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00267	580HP	09H-	0.90		0.55		0	<20	P 3	
121	34	10/96	H	07H-VS3	06H-VS3	00266	580HP	BW1-	1.96		0.46		0	<20	P 3	
		10/96	H	07H-VS3	06H-VS3	00266	580HP	BW1+	1.95		0.73		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00075	610VS	BW1+	2.10		0.34		0	<20	P 2	
66	35	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	08H+	1.65		0.46		0	<20	P 2	
		10/96	H	08H-08H	08H-08H	00496	580HP	08H+	1.85		0.74		0	<20	P 3	
80	35	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	VS3+	1.05		0.30		0	<20	P 2	
84	35	10/96	C	TEC-TEH	TEC-TEH	00135	610VS	BW1+	1.75		0.35		0	<20	P 2	
90	35	10/96	H	07H-VS3	07H-VS3	00260	580HP	BW1+	1.75		0.62		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00260	580HP	VS3+	2.65		0.97		0.4	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3	00260	580HP	VS3+	2.65		0.16		0.3	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	00260	580HP	VS3+	2.65		5.00		5	SVI	P 3	
96	35	10/96	H	07H-VS3	07H-VS3	00259	580HP	BW1+	2.09		1.35		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00029	610VS	VS1-	0.67		0.60		0	<20	P 2	
112	35	10/96	H	07H-VS3	07H-VS3	00258	580HP	BW1+	1.87		0.91		0	<20	P 3	
114	35	10/96	H	07H-VS3	07H-VS3	00257	580HP	BW1+	2.20		0.78		0	<20	P 3	
122	35	10/96	H	07H-VS2	07H-VS2	00266	580HP	BW1-	1.93		0.72		0	<20	P 3	
1	36	10/96	H	TEH-07H	TEH-07H	00272	610VS	06H+	17.91		4.03		10	BLI	P 1	
87	36	10/96	C	TEC-TEH	TEC-TEH	00136	610VS	BW1+	2.07		0.43		0	<20	P 2	
91	36	10/96	H	07H-VS3	07H-VS3	00257	580HP	BW1+	2.07		1.39		0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00032	610VS	BW1+	2.23		0.66		0	<20	P 2	
93	36	10/96	H	07H-VS3	07H-VS3	00254	580HP	BW1-	1.76		0.50		0	<20	P 3	
111	36	10/96	H	07H-VS3	07H-VS3	00257	580HP	VS3-	0.97		1.05		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00029	610VS	VS3-	0.76		0.81		0	20	P 2	
115	36	10/96	H	07H-VS3	07H-VS3	00257	580HP	BW1+	1.97		0.51		0	<20	P 3	
123	36	10/96	H	07H-VS2	07H-VS3	00266	580HP	09H-	0.91		0.40		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS3	00266	580HP	09H+	0.74		0.41		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS3	00266	580HP	BW1+	1.96		0.56		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00075	610VS	BW1+	2.23		0.23		0	<20	P 2	
		10/96	H	07H-VS2	07H-VS3	00266	580HP	VS1+	0.25		0.58		0	<20	P 3	
52	37	10/96	C	TEC-TEH	TEC-TEH	00137	610VS	BW1+	1.75		0.23		0	<20	P 2	
66	37	10/96	C	TEC-TEH	TEC-TEH	00138	610VS	BW1-	2.20		0.21		0	<20	P 2	
68	37	10/96	C	TEC-TEH	TEC-TEH	00137	610VS	08H+	0.84		0.50		0	<20	P 2	
86	37	10/96	C	TEC-TEH	TEC-TEH	00138	610VS	BW1+	2.13		0.16		0	<20	P 2	
92	37	10/96	C	TEC-TEH	TEC-TEH	00031	610VS	VS2+	0.92		0.38		0	<20	P 2	
96	37	10/96	H	07H-VS3	07H-VS3	00250	580HP	BW1+	2.08		0.89		0	<20	P 3	
114	37	10/96	C	TEC-TEH	TEC-TEH	00032	610VS	BW1+	1.80		0.47		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00252	580HP	BW1+	2.04		0.85		0	<20	P 3	
116	37	10/96	H	07H-VS3	07H-VS3	00250	580HP	BW1+	1.74		1.08		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00031	610VS	BW1+	2.07		0.39		0	<20	P 2	
120	37	10/96	H	07H-VS3	07H-VS3	00267	580HP	BW1+	1.78		0.74		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	BW1+	1.87		0.32		0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 5 OF 66  
 DATE: 01/01/97  
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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
122	37	10/96	C	TEC-TEH	TEC-TEH		00075	610VS	02C+	0.03	0.75	0	<20	P 2	
124	37	10/96	H	07H-VS2	07H-VS2		00266	580HP	09H+	0.72	0.37	0	<20	P 3	
39	38	10/96	H	TSH-TSH	TSH-TSH		00177	600HP	TSH-	0.08	0.21	0.2	SAI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00177	600HP	TSH-	0.08	0.76	0.3	SAI	P 3	
		10/96	H	TSH-TSH	TSH-TSH		00177	600HP	TSH-	0.08	18.00	35	SAI	P 3	
81	38	10/96	C	TEC-TEH	TEC-TEH		00137	610VS	VS5-	0.74	1.20	0	23	P 2	
91	38	10/96	H	07H-VS3	BW1-VS3		00247	580HP	BW1+	1.85	0.80	0	<20	P 3	
101	38	10/96	C	TEC-TEH	TEC-TEH		00032	610VS	08H+	0.92	0.83	0	22	P 2	
113	38	10/96	C	TEC-TEH	TEC-TEH		00032	610VS	VS2+	0.81	0.54	0	<20	P 2	
115	38	10/96	C	TEC-TEH	TEC-TEH		00031	610VS	BW1+	1.83	0.18	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00252	580HP	BW1+	1.83	0.56	0	<20	P 3	
117	38	10/96	H	07H-VS3	07H-VS3		00250	580HP	09H-	1.28	0.60	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00250	580HP	09H+	0.59	0.75	0	<20	P 3	
119	38	10/96	H	07H-VS3	07H-VS3		00267	580HP	BW1+	1.45	0.49	0	<20	P 3	
121	38	10/96	C	TEC-TEH	TEC-TEH		00074	610VS	BW1+	1.99	0.43	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00274	580HP	BW1+	2.25	0.91	0	<20	P 3	
62	39	10/96	C	TEC-TEH	TEC-TEH		00139	610VS	VS3-	0.78	0.50	0	<20	P 2	
66	39	10/96	C	TEC-TEH	TEC-TEH		00139	610VS	08H-	0.86	0.47	0	<20	P 2	
78	39	10/96	C	TEC-TEH	TEC-TEH		00139	610VS	BW1+	2.01	0.15	0	<20	P 2	
88	39	10/96	C	TEC-TEH	TEC-TEH		00137	610VS	BW1+	1.80	0.58	0	<20	P 2	
98	39	10/96	H	07H-VS3	07H-VS3		00243	580HP	BW1+	2.02	0.63	0	<20	P 3	
114	39	10/96	H	07H-VS3	07H-VS3		00243	580HP	VS3-	0.04	0.85	0	<20	P 3	
118	39	10/96	H	07H-VS3	07H-VS3		00274	580HP	BW1-	1.84	0.76	0	<20	P 3	
120	39	10/96	H	07H-VS3	06H-VS3		00267	580HP	BW1+	2.07	0.78	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	BW1+	2.22	0.35	0	<20	P 2	
63	40	10/96	C	TEC-TEH	TEC-TEH		00139	610VS	BW1+	1.75	0.33	0	<20	P 2	
79	40	10/96	C	TEC-TEH	TEC-TEH		00139	610VS	VS3-	0.69	0.73	0	20	P 2	
81	40	10/96	C	TEC-TEH	TEC-TEH		00137	610VS	BW1+	1.83	0.28	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00137	610VS	VS3-	0.86	1.06	0	22	P 2	
91	40	10/96	H	07H-VS3	07H-VS3		00247	580HP	BW1+	1.98	0.99	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00032	610VS	BW1+	2.05	0.38	0	<20	P 2	
99	40	10/96	C	TEC-TEH	TEC-TEH		00059	610VS	VS2+	0.03	0.57	0	<20	P 2	
		10/96	H	07H-VS3	08H-VS3		00247	580HP	VS2+	0.05	1.35	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00059	610VS	VS3-	0.84	0.99	0	21	P 2	
		10/96	H	07H-VS3	08H-VS3		00247	580HP	VS3-	0.83	1.40	0	<20	P 3	
		10/96	H	07H-VS3	08H-VS3		00247	580HP	VS3+	0.87	1.29	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00059	610VS	VS3+	1.01	0.68	0	<20	P 2	
105	40	10/96	H	07H-VS3	07H-VS3		00250	580HP	BW1+	1.77	0.49	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	BW1+	1.91	0.14	0	<20	P 2	
113	40	10/96	C	TEC-TEH	TEC-TEH		00032	610VS	VS5+	11.69	2.13	12	BLI	P 1	
		10/96	C	TEC-TEH	TEC-TEH		00032	610VS	VS5+	14.59	3.48	10	BLI	P 1	
117	40	10/96	H	07H-VS3	07H-VS3		00250	580HP	BW1-	2.01	0.68	0	<20	P 3	
121	40	10/96	H	07H-VS3	07H-VS3		00277	580HP	BW1+	1.77	0.99	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	BW1+	2.10	0.37	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	VS2+	1.08	0.47	0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
123	40	10/96	H	07H-VS2	09H-VS3	00478	580HP	BW1+	1.94		0.56		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	BW1+	2.08		0.27		0	<20	P 2	
102	41	10/96	H	07H-VS3	07H-VS3	00248	580HP	BW1-	1.75		0.74		0	<20	P 3	
122	41	10/96	H	09H-VS3	09H-VS3	00276	580HP	BW1+	2.00		0.58		0	<20	P 3	
124	41	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	BW1+	2.02		0.39		0	<20	P 2	
		10/96	H	07H-VS2	07H-VS2	00274	580HP	BW1+	2.05		0.88		0	<20	P 3	
130	41	10/96	C	TEC-TEH	TEC-08H	00076	610VS						OBS			
15	42	10/96	C	TEC-TEH	TEC-TEH	00124	610VS	BW2+	2.00		0.52		0	<20	P 2	
85	42	10/96	C	TEC-TEH	TEC-TEH	00137	610VS	BW1+	1.75		0.61		0	<20	P 2	
93	42	10/96	H	07H-VS3	07H-VS3	00238	580HP	BW1+	1.84		0.47		0	<20	P 3	
117	42	10/96	H	07H-VS3	07H-VS3	00244	580HP	09H-	1.21		0.50		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00244	580HP	09H+	0.76		0.78		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00040	610VS	09H+	0.77		0.44		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00248	580HP	BW1-	1.76		0.48		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00244	580HP	BW1-	1.20		0.58		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00248	580HP	VS2+	0.80		0.52		0	<20	P 3	
66	43	10/96	C	TEC-TEH	TEC-TEH	00139	610VS	08H-	0.93		0.41		0	<20	P 2	
74	43	10/96	C	TEC-TEH	TEC-TEH	00141	610VS	VS3-	0.84		0.38		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00141	610VS	VS5-	0.79		0.26		0	<20	P 2	
82	43	10/96	C	TEC-TEH	TEC-TEH	00140	610VS	VS5+	0.94		0.78		0	20	P 2	
108	43	10/96	H	07H-VS3	07H-VS3	00244	580HP	BW1+	1.29		0.72		0	<20	P 3	
118	43	10/96	H	07H-VS3	07H-VS3	00297	580HP	BW1-	2.03		0.58		0	<20	P 3	
124	43	10/96	H	07H-VS2	07H-BW1	00296	580HP	BW1+	1.87		0.67		0	<20	P 3	
101	44	10/96	H	07H-VS3	07H-VS3	00237	580HP	BW1-	1.67		0.53		0	<20	P 3	
117	44	10/96	H	07H-VS3	07H-VS3	00244	580HP	09H+	0.85		0.65		0	<20	P 3	
133	44	10/96	C	TEC-TEH	TEC-TEH	00093	610VS	VS1-	0.94		0.39		0	<20	P 2	
64	45	10/96	C	TEC-TEH	TEC-TEH	00140	610VS	VS5+	0.80		0.42		0	<20	P 2	
102	45	10/96	H	07H-VS3	07H-VS3	00237	580HP	BW1+	1.88		0.82		0	<20	P 3	
104	45	10/96	H	07H-VS3	07H-VS3	00238	580HP	BW1+	1.75		0.56		0	<20	P 3	
110	45	10/96	H	07H-VS3	07H-VS3	00237	580HP	BW1+	2.19		0.43		0	<20	P 3	
114	45	10/96	H	07H-VS3	07H-VS3	00237	580HP	VS3+	1.06		0.65		0	<20	P 3	
83	46	10/96	C	TEC-TEH	TEC-TEH	00140	610VS	VS3+	0.93		0.73		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00140	610VS	VS5+	0.91		0.81		0	20	P 2	
117	46	10/96	H	07H-VS3	09H-VS3	00236	580HP	BW1-	1.81		0.76		0	<20	P 3	
38	47	10/96	C	TEC-TEH	TEC-TEH	00127	610VS	VS4+	0.83		0.37		0	<20	P 2	
66	47	10/96	C	TEC-TEH	TEC-TEH	00140	610VS	08H-	0.07		0.51		0	<20	P 2	
110	47	10/96	H	07H-VS3	07H-VS3	00237	580HP	BW1+	1.69		0.53		0	<20	P 3	
134	47	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	VS1+	0.72		0.36		0	<20	P 2	
136	47	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	04C-	0.17		0.37		0	<20	P 2	
83	48	10/96	C	TEC-TEH	TEC-TEH	00143	610VS	VS5+	0.99		0.69		0	<20	P 2	
91	48	10/96	C	TEC-TEH	TEC-TEH	00036	610VS	BW1+	2.24		0.41		0	<20	P 2	
93	48	10/96	H	07H-VS3	07H-VS3	00198	580HP	BW1+	1.79		0.86		0	<20	P 3	
99	48	10/96	H	07H-VS3	07H-VS3	00236	580HP	BW1+	1.83		1.52		0	24	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00035	610VS	BW1+	2.00		0.58		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00035	610VS	06C+	33.90		0.17		140	20	1	



CUMULATIVE REPORT  
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STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
117	48	10/96	H	07H-VS3	07H-VS3	00236	580HP	BW1-	1.45		0.84		0<20	P 3	
12	49	10/96	H	TSH-TSH	TSH-TSH	00130	600HP	TSH+	0.04		0.36		0.6	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00130	600HP	TSH+	0.04		0.47		0.4	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00130	600HP	TSH+	0.04		165.0		21	SCI	P 4
64	49	10/96	C	TEC-TEH	TEC-TEH	00142	610LF	VS3+	0.80		0.49		0<20	P 2	
86	49	10/96	C	TEC-TEH	TEC-TEH	00143	610VS	BW1+	2.08		0.24		0<20	P 2	
98	49	10/96	C	TEC-TEH	TEC-TEH	00036	610VS	VS2+	0.83		0.56		0<20	P 2	
110	49	10/96	H	07H-VS3	07H-VS3	00235	580HP	BW1+	1.83		0.38		0<20	P 3	
112	49	10/96	H	07H-VS3	07H-VS3	00236	580HP	BW1+	1.75		0.92		0<20	P 3	
116	49	10/96	H	07H-VS3	07H-VS3	00236	580HP	BW1-	1.75		1.01		0<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00236	580HP	BW1+	1.75		0.61		0<20	P 3	
118	49	10/96	H	07H-VS3	07H-VS3	00476	580HP	BW1-	1.80		0.60		0<20	P 3	
138	49	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	04C+	0.00		1.10		0	25	P 2
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	03C-	1.01		0.55		0<20	P 2	
19	50	10/96	C	TEC-TEH	TEC-TEH	00127	610VS	04H+	38.07		0.31		139	<20	1
		10/96	H	04H-05H	04H-05H	00496	580HP	04H+	38.07		0.38		0.2	SVI	P 2
		10/96	H	04H-05H	04H-05H	00496	580HP	04H+	38.07		0.37		0.3	SVI	P 3
		10/96	H	04H-05H	04H-05H	00496	580HP	04H+	38.07		33.00		119	SVI	P 3
25	50	10/96	H	TSH-TSH	TSH-TSH	00061	600HP	TSH-	0.18		1.13		2.0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00061	600HP	TSH-	0.18		2.73		1.8	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00061	600HP	TSH-	0.18		10.00		18	SCI	P 4
89	50	10/96	C	TEC-TEH	TEC-TEH	00142	610LF	08H+	0.91		0.59		0<20	P 2	
97	50	10/96	C	TEC-TEH	TEC-TEH	00036	610VS	VS2-	0.80		0.49		0<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00036	610VS	VS2+	0.83		0.46		0<20	P 2	
103	50	10/96	H	07H-VS3	BW1-VS3	00235	580HP	BW1-	2.06		0.56		0<20	P 3	
		10/96	H	07H-VS3	07H-BW1	00235	580HP	BW1-	1.85		0.47		0<20	P 3	
109	50	10/96	H	07H-VS3	BW1-VS2	00396	580HP	BW1+	3.10		1.43		0.5	SVI	P 2
		10/96	H	BW1-VS2	BW1-VS2	00396	580HP	BW1+	3.10		0.71		.5	SVI	P 3
		10/96	H	BW1-VS2	BW1-VS2	00396	580HP	BW1+	3.10		35.00		45	SVI	P 3
111	50	10/96	H	07H-VS3	07H-VS3	00235	580HP	BW1+	1.92		1.04		0<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00235	580HP	VS3-	0.96		1.05		0<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00035	610VS	VS3-	0.80		0.98		0<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00035	610VS	VS5+	0.80		0.74		0<20	P 2	
139	50	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	04C-	0.17		0.73		0<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	03C+	0.00		0.37		0<20	P 2	
42	51	10/96	C	TSC-01C	TSC-01C	00241	580HP	TSC+	3.96		0.94		0.4	SVI	P 2
		10/96	C	TSC-01C	TSC-01C	00241	580HP	TSC+	3.96		0.54		0.3	SVI	P 3
		10/96	C	TSC-01C	TSC-01C	00241	580HP	TSC+	3.96		152.0		22	SVI	P 3
64	51	10/96	C	TEC-TEH	TEC-TEH	00142	610LF	BW1+	1.75		0.31		0<20	P 2	
74	51	10/96	C	TEC-TEH	TEC-TEH	00143	610VS	VS3-	0.78		0.62		0<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00143	610VS	VS5+	0.96		0.30		0<20	P 2	
106	51	10/96	H	07H-VS3	07H-VS3	00235	580HP	BW1+	1.61		0.72		0<20	P 3	
118	51	10/96	H	07H-VS3	07H-VS3	00338	580HP	BW1-	1.76		0.56		0<20	P 3	
122	51	10/96	H	07H-VS2	07H-VS2	00339	580HP	VS1+	11.90		0.00		0	SVI	P 2
		10/96	H	07H-VS2	07H-VS2	00339	580HP	VS1+	11.90		0.47		0.1	SVI	P 3



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
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 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS2	07H-VS2		00339	580HP	VS1+	11.90	0.00	101	SVI	P 3	
71	52	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	08H+	0.96	0.41	0	<20	P 2	
83	52	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	08H+	1.01	0.32	0	<20	P 2	
87	52	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	BW1+	2.05	0.22	0	<20	P 2	
91	52	10/96	C	TEC-TEH	TEC-TEH		00036	610VS	BW1+	1.90	0.51	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00198	580HP	BW1+	1.90	1.09	0	<20	P 3	
99	52	10/96	H	07H-VS3	07H-VS3		00263	580HP	BW1+	1.94	1.06	0	<20	P 3	
113	52	10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	26.00	0.00	0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	26.00	0.33	4.0	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00235	580HP	BW1+	26.00	0.00	15	SAI	P 3	
115	52	10/96	H	07H-VS3	07H-VS3		00236	580HP	BW1+	1.65	0.54	0	<20	P 3	
62	53	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	VS3+	0.86	0.35	0	<20	P 2	
64	53	10/96	C	TEC-TEH	TEC-TEH		00142	610LF	BW1+	2.10	0.29	0	<20	P 2	
98	53	10/96	H	07H-VS3	07H-VS3		00196	580HP	08H+	0.90	0.55	0	<20	P 3	
100	53	10/96	H	07H-VS3	07H-VS3		00263	580HP	08H+	0.93	0.73	0	<20	P 3	
140	53	10/96	C	TEC-TEH	TEC-TEH		00074	610VS	03C-	0.06	0.34	0	<20	P 2	
142	53	10/96	H	07H-VS3	07H-VS3		00344	580HP	VS1-	0.35	0.00	0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00344	580HP	VS1-	0.35	0.72	0.3	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00344	580HP	VS1-	0.35	0.00	49	SAI	P 3	
65	54	10/96	C	TEC-TEH	TEC-TEH		00142	610LF	BW1+	1.76	0.33	0	<20	P 2	
69	54	10/96	C	TEC-TEH	TEC-TEH		00142	610LF	BW1-	1.87	0.28	0	<20	P 2	
71	54	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	04H+	0.95	0.41	0	<20	P 2	
81	54	10/96	C	TEC-TEH	TEC-TEH		00142	610LF	08H+	1.06	0.51	0	<20	P 2	
87	54	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	BW2-	1.80	0.15	0	<20	P 2	
99	54	10/96	H	07H-VS3	07H-VS3	4	00404	580HP	BW1+	1.87	1.50	0	20	P 3	
103	54	10/96	H	07H-VS3	07H-VS3		00235	580HP	08H+	30.90	0.00	0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00235	580HP	08H+	30.90	0.32	4.0	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00235	580HP	08H+	30.90	0.00	15	SAI	P 3	
24	55	10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.23	0.22	.5	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.23	0.60	.5	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.23	0.00	18	SCI	P 4	
74	55	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	VS3-	0.85	0.65	0	<20	P 2	
78	55	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	VS5+	0.97	0.30	0	<20	P 2	
80	55	10/96	C	TEC-TEH	TEC-TEH		00142	610LF	08H+	0.96	0.63	0	<20	P 2	
82	55	10/96	C	TEC-TEH	TEC-TEH		00143	610VS	VS3+	1.04	0.58	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00143	610VS	VS5+	0.94	0.40	0	<20	P 2	
98	55	10/96	H	07H-VS3	07H-VS3	4	00404	580HP	BW1+	1.90	0.70	0	<20	P 3	
35	56	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.00	0.44	.2	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.00	0.47	.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.00	100.0	54	SCI	P 4	
77	56	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	VS3+	0.96	0.58	0	<20	P 2	
103	56	10/96	H	07H-VS3	07H-BW1	4	00285	580HP	08H+	0.80	1.06	0	<20	P 3	
115	56	10/96	H	07H-VS3	07H-VS3		00221	580HP	BW1+	2.25	0.55	0	<20	P 3	
141	56	10/96	C	TEC-TEH	TEC-TEH		00074	610VS	VS1+	0.83	0.49	0	<20	P 2	
145	56	10/96	C	TEC-TEH	TEC-TEH		00074	610VS	03C-	0.12	0.47	0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
24	57	10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH- 0.07	0.97		.6	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH- 0.07	1.40		.5	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH- 0.07	4.00		17	SCI	P 4
68	57	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	BW1+ 1.87	0.18		0	<20	P 2
72	57	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	08H+ 0.86	0.38		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00144	610LF	VS3+ 1.03	0.66		0	<20	P 2
84	57	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	VS3+ 0.70	0.32		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00144	610LF	VS5- 0.65	0.42		0	<20	P 2
92	57	10/96	C	TEC-TEH	TEC-TEH		00035	610VS	08H+ 1.04	0.53		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00197	580HP	08H+ 1.11	0.92		0	<20	P 3
100	57	10/96	H	07H-VS3	07H-VS3		00197	580HP	BW1+ 2.10	0.70		0	<20	P 3
102	57	10/96	C	TEC-TEH	TEC-TEH		00036	610VS	08H+ 0.98	0.62		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00196	580HP	08H+ 1.06	0.99		0	<20	P 3
112	57	10/96	H	07H-VS3	07H-VS3		00224	580HP	VS2- 0.83	1.05		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00035	610VS	VS2- 0.77	0.81		0	<20	P 2
116	57	10/96	H	07H-VS3	07H-VS3		00222	580HP	09H+ 0.73	0.61		0	<20	P 3
136	57	10/96	H	07H-VS3	07H-08H		00472	580HP	07H+ 0.85	0.50		0	<20	P 3
1	58	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	0.37		.2	SVI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	0.53		.1	SVI	P 3
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	29.00		76	SVI	P 3
27	58	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	0.21		.2	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	0.86		.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.06	159.0		79	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.26		.3	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.39		.3	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.00		86	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.07		.1	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.11		.1	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+ 0.08	0.00		62	MCI	P 4
53	58	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	BW1+ 1.80	0.19		0	<20	P 2
69	58	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	BW1+ 1.77	0.29		0	<20	P 2
83	58	10/96	C	TEC-TEH	TEC-TEH		00144	610LF	VS5+ 0.86	0.31		0	<20	P 2
93	58	10/96	C	TEC-TEH	TEC-TEH		00035	610VS	08H+ 0.96	0.55		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00209	580HP	08H+ 1.04	0.63		0	<20	P 3
97	58	10/96	H	01H-02H	01H-02H	1	00481	580HP	01H+ 6.40	0.00		0	SVI	P 2
		10/96	H	01H-02H	01H-02H	1	00481	580HP	01H+ 6.40	0.45		0.2	SVI	P 3
		10/96	H	01H-02H	01H-02H	1	00481	580HP	01H+ 6.40	0.00		56	SVI	P 3
103	58	10/96	H	07H-VS3	08H-BW1		00263	580HP	08H+ 36.90	0.00		0	SAI	P 2
		10/96	H	07H-VS3	08H-BW1		00263	580HP	08H+ 36.90	0.67		0.6	SAI	P 3
		10/96	H	07H-VS3	08H-BW1		00263	580HP	08H+ 36.90	0.00		22	SAI	P 3
145	58	10/96	C	TEC-TEH	TEC-TEH		00074	610VS	07H+ 0.83	0.45		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00074	610VS	03C- 1.09	0.37		0	<20	P 2
22	59	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH- 0.04	0.59		.7	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH- 0.04	2.13		1.2	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH- 0.04	0.00		25	SCI	P 4

ROCKRIDGE TECHNOLOGIES



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM-EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
28	59	10/96	H	TSH-TSH	TSH-TSH	00054	610HP	TSH-	0.14		0.22		.4	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00054	610HP	TSH-	0.14		0.53		.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00054	610HP	TSH-	0.14		0.00		54	SCI	P 4	
76	59	10/96	C	TEC-TEH	TEC-TEH	00144	610LF	08H+	0.97		0.58		0	<20	P 2	
80	59	10/96	C	TEC-TEH	TEC-TEH	00144	610LF	08H+	0.96		0.39		0	<20	P 2	
86	59	10/96	C	TEC-TEH	TEC-TEH	00144	610LF	08H+	0.95		0.43		0	<20	P 2	
106	59	10/96	H	07H-VS3	07H-VS3	00209	580HP	08H+	33.08		0.00		0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3	00209	580HP	08H+	33.08		0.31		2.9	SAI	P 3	
		10/96	H	07H-VS3	07H-08H	00209	580HP	08H+	33.08		0.00		77	SAI	P 3	
144	59	10/96	C	TEC-TEH	TEC-TEH	00074	610VS	VS1+	0.87		0.49		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00074	610VS	03C-	1.04		0.63		0	<20	P 2	
1	60	10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH+	0.05		0.22		.2	SVI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH+	0.05		0.28		.2	SVI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH+	0.05		2.00		67	SVI	P 4	
31	60	10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.02		0.23		.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.02		0.34		.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.02		176.0		24	SCI	P 4	
37	60	10/96	H	TSH-TSH	TSH-TSH	00036	600HP	TSH-	0.09		0.45		.6	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00036	600HP	TSH-	0.09		0.58		.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00036	600HP	TSH-	0.09		0.00		17	SCI	P 4	
53	60	10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.04		0.20		0.4	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.04		0.72		0.3	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.04		16.00		18	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.01		0.16		0.3	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.01		0.55		0.5	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.01		0.00		22	MCI	P 4	
91	60	10/96	C	TEC-TEH	TEC-TEH	00038	610VS	08H+	0.97		0.41		0	<20	P 2	
95	60	10/96	C	TEC-TEH	TEC-TEH	00038	610VS	08H+	0.99		0.79		0	22	P 2	
113	60	10/96	C	TEC-TEH	TEC-TEH	00038	610VS	03H+	4.31		4.69		13	BLI	P 1	
115	60	10/96	H	07H-VS3	07H-VS3	00221	580HP	VS2+	0.03		0.65		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00221	580HP	VS2+	0.98		1.03		0	20	P 3	
131	60	10/96	C	TEC-TEH	TEC-TEH	00039	610VS	VS1+	0.89		0.56		0	<20	P 2	
22	61	10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.18		1.26		1.0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.18		1.54		.9	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00053	600HP	TSH-	0.18		15.00		20	SCI	P 4	
54	61	10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.02		1.16		0.5	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.02		2.52		0.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.02		5.00		24	SCI	P 4	
58	61	10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.08		0.47		.4	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.02		1.45		.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00025	600HP	TSH-	0.02		10.00		45	SCI	P 4	
100	61	10/96	H	07H-VS3	07H-VS3	00404	580HP	08H+	0.93		0.82		0	<20	P 3	
102	61	10/96	H	07H-VS3	07H-VS3	00286	580HP	BW1+	1.81		0.99		0	<20	P 3	
106	61	10/96	H	07H-VS3	07H-VS3	00286	580HP	08H+	0.92		1.26		0	22	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00038	610VS	08H+	0.94		0.74		0	21	P 2	



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	+	CH	CHNG
		10/96	H	07H-VS3	07H-VS3	4	00286	580HP	VS2+	0.85	0.57	0	<20	P 3	
25	62	10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.09	0.19	.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.09	0.44	.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.09	0.00	76	SCI	P 4	
27	62	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.04	0.13	.2	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.04	0.60	.4	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.04	175.0	58	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.03	0.21	.2	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.03	0.49	.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH-	0.03	168.0	51	MCI	P 4	
53	62	10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH-	0.09	0.34	.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH-	0.09	0.33	.2	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH-	0.09	133.0	20	SCI	P 4	
81	62	10/96	C	TEC-TEH	TEC-TEH		00146	610LF	BW1+	1.90	0.25	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00146	610LF	VS5+	0.29	0.36	0	<20	P 2	
95	62	10/96	H	07H-VS3	06H-VS3		00207	580HP	08H-	0.13	0.62	0	<20	P 3	
97	62	10/96	H	07H-VS3	06H-VS3		00208	580HP	08H-	0.22	0.81	0	<20	P 3	
		10/96	H	07H-VS3	06H-VS3		00208	580HP	08H+	0.62	1.28	0	22	P 3	
101	62	10/96	H	07H-VS3	07H-VS3		00210	580HP	BW1+	1.68	0.91	0	<20	P 3	
107	62	10/96	H	07H-VS3	07H-VS3		00209	580HP	BW1+	0.96	0.71	0	<20	P 3	
149	62	10/96	H	07H-VS3	07H-VS3		00472	580HP	07H+	0.68	0.39	0	<20	P 3	
28	63	10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+	0.06	0.18	.2	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+	0.06	0.94	.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00053	600HP	TSH+	0.06	0.00	37	SCI	P 4	
32	63	10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.01	0.78	.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.01	1.05	.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00054	610HP	TSH-	0.01	9.00	22	SCI	P 4	
36	63	10/96	H	TSH-TSH	TSH-TSH		00036	600HP	TSH+	0.12	0.63	.3	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00036	600HP	TSH+	0.12	0.71	.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00036	600HP	TSH+	0.12	0.00	28	MCI	P 4	
40	63	10/96	H	TSH-TSH	TSH-TSH		00039	600MP	TSH-	0.02	0.83	0.7	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00039	600MP	TSH-	0.02	1.02	.5	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00039	600MP	TSH-	0.02	7.00	15	SCI	P 4	
42	63	10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH-	0.10	0.70	0.4	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH-	0.10	1.21	0.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH-	0.10	34.00	24	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH+	0.09	0.24	0.3	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH+	0.09	0.94	0.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00026	600HP	TSH+	0.09	176.0	67	MCI	P 4	
44	63	10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH+	0.02		0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH+	0.02	0.84	0.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00025	600HP	TSH+	0.02		93	SCI	P 4	
96	63	10/96	H	07H-VS3	07H-VS3		00210	580HP	BW1+	1.86	1.40	0	25	P 3	
98	63	10/96	H	07H-VS3	07H-VS3		00207	580HP	08H+	0.83	1.34	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00038	610VS	08H+	0.97	0.62	0	<20	P 2	



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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
		10/96	H	07H-VS3	07H-VS3	00207	580HP	BW1+	2.07		1.00		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH	00038	610VS	BW1+	2.25		0.28		0	<20	P 2
102	63	10/96	H	07H-VS3	07H-VS3	00209	580HP	07H+	0.86		0.56		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00209	580HP	VS2-	0.97		0.33		0	<20	P 3
110	63	10/96	C	TEC-TEH	TEC-TEH	00038	610VS	BW1+	1.75		0.40		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3	00223	580HP	BW1+	1.75		0.91		0	<20	P 3
112	63	10/96	H	07H-VS3	07H-VS3	00224	580HP	08H+	0.56		0.92		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00224	580HP	BW1-	0.70		1.62		0	SVI	P 2
		10/96	H	07H-VS3	07H-VS3	00224	580HP	BW1-	0.70		1.99		0.6	SVI	P 3
		10/96	H	07H-VS3	07H-VS3	00224	580HP	BW1-	0.70		16.00		52	SVI	P 3
114	63	10/96	H	07H-VS3	07H-VS3	00221	580HP	VS2-	0.99		0.85		0	<20	P 3
136	63	10/96	C	TEC-TEH	TEC-VS3	00039	610VS							OBS	
		10/96	C	TEC-TEH	TEC-VS1	00059	610VS							OBS	
		10/96	C	TEC-TEH	TEC-VS1	00085	610VS							OBS	
		10/96	H	07H-VS3	07H-VS3	00377	580HP	BW1-	1.04		0.00		0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3	00377	580HP	BW1-	1.04		0.55		1.0	SAI	P 3
		10/96	H	07H-VS3	07H-VS3	00377	580HP	BW1-	1.04		0.00		111	SAI	P 3
138	63	10/96	H	07H-VS3	07H-VS3	00377	580HP	09H+	24.59		0.00		0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3	00377	580HP	09H+	24.59		0.71		1.1	SAI	P 3
		10/96	H	07H-VS3	07H-VS3	00377	580HP	09H+	24.59		0.00		73	SAI	P 3
148	63	10/96	H	07H-VS3	07H-VS3	00380	580HP	BW1-	1.75		0.56		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00380	580HP	VS1+	4.22		0.18		0.2	SAI	P 2
		10/96	H	07H-VS3	07H-VS3	00380	580HP	VS1+	4.22		0.32		1.3	SAI	P 3
		10/96	H	07H-VS3	07H-VS3	00380	580HP	VS1+	4.22		166.0		146	SAI	P 3
150	63	10/96	H	07H-VS3	07H-VS3	00379	580HP	07H+	0.02		1.06		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00379	580HP	08H-	1.22		0.58		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00379	580HP	08H+	0.62		0.67		0	<20	P 3
45	64	10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.11		0.11		0.2	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.11		0.44		0.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH-	0.11		8.00		22	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.10		0.22		0.2	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.10		0.71		0.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.10		147.0		49	MCI	P 4
		10/96	C	VS4-VS4	VS4-VS4	00241	580HP	VS4+	0.97		0.72		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH	00129	610VS	VS4+	1.28		0.71		0	<20	P 2
49	64	10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.03		0.00		0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.03		0.45		0.2	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00026	600HP	TSH+	0.03		0.00		14	SCI	P 4
95	64	10/96	H	07H-VS3	07H-VS3	00207	580HP	08H-	0.77		0.62		0	<20	P 3
99	64	10/96	H	07H-VS3	07H-VS3	00209	580HP	07H+	0.85		0.57		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	00209	580HP	08H+	0.82		0.97		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH	00037	610VS	08H+	0.96		1.19		0	26	P 2
		10/96	H	07H-VS3	07H-VS3	00209	580HP	BW1+	1.75		1.80		0	29	P 3
		10/96	C	TEC-TEH	TEC-TEH	00037	610VS	BW1+	1.93		0.83		0	20	P 2
101	64	10/96	H	07H-VS3	07H-VS3	00210	580HP	07H+	0.95		0.70		0	<20	P 3



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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		EXAM			EXAM EXTENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH-	0.14		0.62		360	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH-	0.14		4.00		33	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.29		0.26		0.3	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.29		0.42		0.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.29		98.00		77	MCI	P 4
107	68	10/96	C	TEC-TEH	TEC-TEH	00043	610VS	BW1+	2.17		0.52		0	<20	P 2
117	68	10/96	C	TEC-TEH	TEC-TEH	00070	610VS	BW1+	2.00		0.30		0	<20	P 2
30	69	10/96	C	TEC-TEH	TEC-TEH	00129	610VS	VS4-	0.83		0.89		0	23	P 2
58	69	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.45		0.7	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.65		0.5	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.00		51	SCI	P 4
74	69	10/96	C	TEC-TEH	TEC-TEH	00189	610LF	VS3+	1.11		0.53		0	<20	P 2
118	69	10/96	H	07H-VS3	05H-VS3	00426	580HP	09H+	1.85		0.93		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH	00070	610VS	BW1+	1.80		0.28		0	<20	P 2
138	69	10/96	C	TEC-TEH	TEC-TEH	00070	610VS	VS1+	0.89		0.55		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3	00428	580HP	VS1+	0.91		0.51		0	<20	P 3
33	70	10/96	C	TEC-TEH	TEC-TEH	00129	610VS	VS4+	0.83		0.58		0	<20	P 2
57	70	10/96	H	TSH-TSH	TSH-TSH	00039	600MP	TSH+	0.12		0.00		0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00039	600MP	TSH+	0.12		0.50		.3	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00039	600MP	TSH+	0.12		0.00		28	SCI	P 4
115	70	10/96	H	07H-VS3	07H-VS3	00398	580HP	08H+	40.48				0	SAT	P 2
		10/96	H	07H-VS3	07H-VS3	00398	580HP	08H+	40.48		0.49		0.5	SAT	P 3
		10/96	H	07H-VS3	07H-VS3	00398	580HP	08H+	40.48				73	SAT	P 3
117	70	10/96	H	07H-VS3	07H-VS3	00399	580HP	08H+	0.84		0.61		0	<20	P 3
121	70	10/96	H	06H-07H	06H-07H	00481	580HP	06H+	23.00		0.00		0	SVI	P 2
		10/96	H	06H-07H	06H-07H	00481	580HP	06H+	23.00		0.31		0.2	SVI	P 3
		10/96	H	06H-07H	06H-07H	00481	580HP	06H+	23.00		0.00		114	SVI	P 3
129	70	10/96	H	07H-VS3	07H-VS3	00427	580HP	BW1+	1.88		0.52		0	<20	P 3
36	71	10/96	C	TEC-TEH	TEC-TEH	00129	610VS	VS1-	0.57		0.72		0	20	P 2
78	71	10/96	C	TEC-TEH	TEC-TEH	00190	610VS	VS3-	0.82		0.44		0	<20	P 2
112	71	10/96	H	07H-VS3	07H-VS3	00401	580HP	BW1+	1.79		0.25		.3	SVI	P 2
		10/96	H	07H-VS3	07H-VS3	00401	580HP	BW1+	1.79		0.83		.4	SVI	P 3
		10/96	H	07H-VS3	07H-VS3	00401	580HP	BW1+	1.79		157.0		57	SVI	P 3
49	72	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		0.00		0.0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		0.41		0.4	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		0.00		121	SCI	P 4
55	72	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.09		0.00		0.0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.09		0.60		0.3	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.09		0.00		32	SCI	P 4
107	72	10/96	C	TEC-TEH	TEC-TEH	00042	610VS	BW1+	2.18		0.34		0	<20	P 2
117	72	10/96	C	TEC-TEH	TEC-TEH	00071	610VS	09H+	0.81		1.00		0	22	P 2
		10/96	H	07H-VS3	07H-VS3	00399	580HP	09H+	0.94		0.98		0	<20	P 3
129	72	10/96	H	07H-VS3	07H-VS3	00434	580HP	BW1+	1.89		0.35		0	<20	P 3
141	72	10/96	H	07H-VS3	07H-VS3	00435	580HP	BW1+	1.71		0.61		0	<20	P 3
38	73	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.07		0.35		0.3	SCI	P 2



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH- 0.07	0.59		0.2	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH- 0.07	13.00		18	SCI	P 4
62	73	10/96	C	TEC-TEH	TEC-TEH		00190	610VS	VS5+ 0.88	1.98		0	35	P 2
112	73	10/96	H	07H-VS3	07H-VS3		00401	580HP	VS3- 1.14	0.86		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00401	580HP	VS3+ 1.06	0.73		0	<20	P 3
148	73	10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 33.07			0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 33.07	0.62		2.4	SAI	P 3
		10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 33.07			122	SAI	P 3
150	73	10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 34.81	0.00		0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 34.81	0.67		6.0	SAI	P 3
		10/96	H	07H-VS3	07H-VS3		00444	580HP	09H+ 34.81	0.00		69	SAI	P 3
154	73	10/96	C	TEC-TEH	TEC-03H		00078	610VS					OBS	
		10/96	C	TEC-TEH	TEC-03H		00077	610VS					OBS	
		10/96	H	04H-04H	04H-04H		00488	580HP					OBS	
47	74	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.16	0.00		0.0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.16	0.29		0.3	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.16	0.00		65	SCI	P 4
85	74	10/96	C	TEC-TEH	TEC-TEH		00190	610VS	VS5- 0.66	1.86		0	34	P 2
115	74	10/96	H	07H-VS3	07H-VS3		00398	580HP	BW1+ 1.92	1.95		0	30	P 3
143	74	10/96	H	07H-VS3	07H-VS3		00435	580HP	09H- 0.94	1.01		0	<20	P 3
153	74	10/96	C	TEC-TEH	TEC-TEH		00079	610VS	VS1+ 0.21	0.39		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3	4	00488	580HP	VS1+ 0.28	0.77		0	<20	P 3
22	75	10/96	C	TEC-TEH	TEC-07C		00130	610VS					OBS	
52	75	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.00		0.0	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.40		0.2	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.00		76	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.00		0.0	MCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.33		0.3	MCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+ 0.10	0.00		56	MCI	P 4
98	75	10/96	H	07H-VS3	07H-VS3		00207	580HP	BW1+ 2.97	0.64		0	<20	P 3
106	75	10/96	H	07H-VS3	07H-VS3		00209	580HP	BW1+ 1.93	1.30		0	23	P 3
		10/96	C	TEC-TEH	TEC-TEH		00042	610VS	BW1+ 2.25	0.61		0	<20	P 2
108	75	10/96	H	07H-VS3	07H-VS3		00210	580HP	BW1+ 1.98	0.99		0	<20	P 3
110	75	10/96	H	07H-VS3	07H-VS3		00400	580HP	BW1+ 2.25	0.72		0	<20	P 3
112	75	10/96	H	07H-VS3	07H-VS3		00401	580HP	VS2- 0.72	0.65		0	<20	P 3
114	75	10/96	H	07H-VS3	07H-VS3		00398	580HP	07H+ 0.76	0.52		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00398	580HP	BW1+ 1.71	1.18		0	21	P 3
116	75	10/96	C	TEC-TEH	TEC-TEH		00043	610VS	09H- 1.04	0.63		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00399	580HP	BW1+ 1.07	0.74		1.3	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00399	580HP	BW1+ 1.07	1.04		1.3	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00399	580HP	BW1+ 1.07	131.0		52	SVI	P 3
120	75	10/96	H	07H-VS3	07H-VS3		00444	580HP	BW1+ 1.94	0.78		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	BW1+ 2.25	0.29		0	<20	P 2
122	75	10/96	H	07H-VS2	07H-VS2		00443	580HP	VS1- 1.04	0.82		0	<20	P 3
146	75	10/96	C	TEC-TEH	TEC-TEH		00066	610VS	VS1+ 0.89	0.50		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
150	75	10/96	H	07H-VS3	07H-VS3	00444	580HP	09H+	34.50				0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3	00444	580HP	09H+	34.50		0.82		3.8	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3	00444	580HP	09H+	34.50				56	SAI	P 3	
152	75	10/96	H	09H-BW1	09H-BW1	00499	580HP	09H+	35.80		0.34		.4	SAI	P 2	
		10/96	H	09H-BW1	09H-BW1	00499	580HP	09H+	35.80		0.39		.5	SAI	P 3	
		10/96	H	09H-BW1	09H-BW1	00499	580HP	09H+	35.80		37.00		71	SAI	P 3	
154	75	10/96	C	TEC-TEH	TEC-TEH	00079	610VS	VS7+	0.91		0.63		0	<20	P 2	
156	75	10/96	C	BW2-BW2	BW2-BW2	00243	580HP	BW2+	1.69		0.98		0	<20	P 4	
47	76	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.14		0.00		0.0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.14		0.34		0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.14		0.00		119	SCI	P 4	
71	76	10/96	C	VS5-VS3	VS5-VS3	00241	580HP	VS3+	29.00		0.28		0.3	SVI	P 2	
		10/96	C	VS5-VS3	VS5-VS3	00241	580HP	VS3+	29.00		0.37		0.3	SVI	P 3	
		10/96	C	VS5-VS3	VS5-VS3	00241	580HP	VS3+	29.00		172.0		134	SVI	P 3	
105	76	10/96	C	TEC-TEH	TEC-TEH	00044	610VS	BW1+	2.24		0.40		0	<20	P 2	
115	76	10/96	H	07H-VS3	07H-VS3	00398	580HP	08H+	0.88		1.40		0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	08H+	0.97		1.06		0	24	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	BW1-	2.13		0.97		0	22	P 2	
		10/96	H	07H-VS3	07H-VS3	00398	580HP	BW1-	1.75		1.78		0	28	P 3	
		10/96	H	07H-VS3	07H-VS3	00398	580HP	BW1+	1.80		2.04		0	31	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	BW1+	2.00		1.34		0	28	P 2	
117	76	10/96	C	TEC-TEH	TEC-TEH	00066	610VS	09H-	1.02		0.62		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00399	580HP	09H-	0.97		0.73		0	<20	P 3	
66	77	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.20		0.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.66		0.4	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.00		54	SCI	P 4	
80	77	10/96	C	TEC-TEH	TEC-TEH	00192	610VS	VS5-	0.92		1.66		0	33	P 2	
112	77	10/96	H	08H-VS2	08H-VS2	00393	580HP	VS2-	0.89		1.81		0	29	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	VS2-	0.88		1.49		0	30	P 2	
114	77	10/96	H	07H-VS3	07H-VS2	00479	580HP	BW1+	1.99		0.93		0	<20	P 3	
132	77	10/96	C	TEC-TEH	TEC-TEH	00069	610VS	VS1-	0.77		0.41		0	<20	P 2	
146	77	10/96	H	07H-VS3	07H-VS3	00456	580HP	BW1+	2.13		0.88		0	<20	P 3	
148	77	10/96	H	07H-VS3	07H-VS3	00457	580HP	BW1+	1.80		0.52		0	<20	P 3	
150	77	10/96	H	07H-VS3	07H-VS3	00454	580HP	BW1+	1.89		0.63		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00454	580HP	VS1+	0.17		0.58		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00454	580HP	VS1+	0.57		0.45		0	<20	P 3	
37	78	10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.07		0.21		0.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.07		0.33		0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH+	0.07		13.00		39	SCI	P 4	
111	78	10/96	H	07H-VS3	07H-VS3	00392	580HP	BW1+	1.82		0.75		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00045	610HS	BW1+	2.00		0.26		0	<20	P 2	
113	78	10/96	C	TEC-TEH	TEC-TEH	00044	610VS	08H+	0.82		0.55		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00393	580HP	08H+	0.90		0.89		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	BW1+	2.00		0.41		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00393	580HP	BW1+	2.08		1.03		0	<20	P 3	



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
129	78	10/96	H	07H-VS3	07H-VS3		00457	580HP	BW1+	1.73	0.87	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	BW1+	1.92	0.32	0	<20	P 2	
133	78	10/96	H	07H-VS3	07H-VS3		00457	580HP	VS1+	19.08		0	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3		00457	580HP	VS1+	19.08	0.53	0.2	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3		00457	580HP	VS1+	19.08		38	SVI	P 3	
149	78	10/96	H	07H-VS3	07H-VS3		00457	580HP	BW1+	1.77	0.45	0	<20	P 3	
153	78	10/96	H	07H-VS3	07H-VS3	4	00494	580HP	VS3-	0.91	0.68	0	<20	P 3	
62	79	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.04	0.30	0.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.04	0.43	0.4	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.04	0.00	38	SCI	P 4	
64	79	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.07	0.27	0.4	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.07	0.35	0.4	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.07	0.00	34	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.10	0.22	0.4	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.10	0.31	0.4	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH+	0.10	0.00	29	MCI	P 4	
108	79	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	08H+	0.99	0.44	0	<20	P 2	
112	79	10/96	H	07H-VS2	07H-VS3		00489	560MP	08H+	0.79	0.62	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00044	610VS	08H+	0.81	0.75	0	<20	P 2	
114	79	10/96	H	07H-VS3	07H-VS3		00394	580HP	08H-	0.07	0.95	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00394	580HP	08H+	1.10	0.85	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00045	610HS	BW1-	1.87	0.56	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00394	580HP	BW1-	1.71	1.97	0	27	P 3	
120	79	10/96	H	07H-VS3	07H-VS3		00457	580HP	BW1+	2.03	0.71	0	<20	P 3	
124	79	10/96	H	07H-VS2	07H-VS5		00462	580HP	09H-	0.12	0.44	0	<20	P 3	
152	79	10/96	H	07H-VS3	07H-VS3	4	00494	580HP	BW1-	1.67	0.63	0	<20	P 3	
154	79	10/96	H	07H-VS3	07H-VS3	4	00494	580HP	BW1-	1.90	0.79	0	<20	P 3	
156	79	10/96	H	07H-VS3	07H-VS3	4	00497	580HP	VS1-	1.10	1.53	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00080	610VS	VS1-	0.83	0.73	0	<20	P 2	
49	80	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.08	0.06	0.2	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.08	0.45	0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.08	0.00	19	SCI	P 4	
51	80	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	0.00	0.0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	0.35	0.4	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	0.00	46	SCI	P 4	
111	80	10/96	H	07H-VS3	07H-VS3		00392	580HP	08H+	0.87	0.70	0	<20	P 3	
115	80	10/96	H	07H-VS3	07H-VS3		00394	580HP	BW1-	1.95	0.81	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00394	580HP	BW1+	2.08	0.94	0	<20	P 3	
117	80	10/96	H	07H-VS3	07H-VS3		00395	580HP	09H+	1.12	0.99	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00066	610VS	09H+	2.19	0.57	0	<20	P 2	
129	80	10/96	C	TEC-TEH	TEC-TEH		00069	610VS	VS1+	0.87	0.51	0	<20	P 2	
139	80	10/96	H	07H-VS3	07H-VS3		00462	580HP	BW1+	1.81	0.67	0	<20	P 3	
108	81	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	08H+	0.98	0.60	0	<20	P 2	
116	81	10/96	H	07H-VS3	07H-VS3		00392	580HP	09H-	1.28	1.05	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00044	610VS	09H-	1.00	0.49	0	<20	P 2	



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## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 18 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
132	81	10/96	H	07H-VS3	07H-VS3		00467	580HP	BW1-	1.75	0.56		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00467	580HP	BW1+	1.85	0.62		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	BW1+	2.09	0.28		0	<20	P 2
154	81	10/96	C	TEC-TEH	TEC-TEH		00069	610VS	VS1+	0.81	0.52		0	<20	P 2
156	81	10/96	C	TEC-TEH	TEC-TEH		00080	610VS	03C-	1.10	0.38		0	<20	P 2
43	82	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.06	0.00		0.0	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.06	0.47		0.3	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.06	0.00		48	SCI	P 4
111	82	10/96	H	07H-VS3	08H-VS3		00392	580HP	BW1+	1.99	0.74		0	<20	P 3
117	82	10/96	H	07H-VS3	07H-VS3		00395	580HP	09H-	1.22	0.76		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	09H-	1.05	0.75		0	<20	P 2
125	82	10/96	C	TEC-TEH	TEC-TEH		00069	610VS	TSH+	14.52	9.27		11	BLI	P 1
		10/96	H	TSH-01H	TSH-01H	1	00481	580HP	TSH+	14.52	3.28		0.7	SVI	P 2
		10/96	H	TSH-01H	TSH-01H	1	00481	580HP	TSH+	14.52	3.25		0.7	SVI	P 3
		10/96	H	TSH-01H	TSH-01H	1	00481	580HP	TSH+	14.52	10.00		18	SVI	P 3
		10/96	H	02H-06H	02H-03H	1	00481	580HP	02H+	25.00	1.07		0.4	SVI	P 2
		10/96	H	02H-06H	02H-03H	1	00481	580HP	02H+	25.00	2.38		0.5	SVI	P 3
		10/96	H	02H-06H	02H-03H	1	00481	580HP	02H+	25.00	10.00		18	SVI	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	02H+	27.87	6.81		7	BLI	P 1
		10/96	H	02H-06H	03H-04H	1	00492	580HP	03H+	12.52	0.00		0	SVI	P 2
		10/96	H	03H-04H	03H-04H		00492	580HP	03H+	12.52	3.90		.5	SVI	P 3
		10/96	H	03H-04H	03H-04H		00492	580HP	03H+	12.52	0.00		16	SVI	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	04H+	11.84	2.95		0	BLI	P 1
		10/96	H	02H-06H	04H-06H	1	00481	580HP	04H+	11.84	0.50		0.5	SVI	P 2
		10/96	H	02H-06H	04H-06H	1	00481	580HP	04H+	11.84	0.43		0.5	SVI	P 3
		10/96	H	02H-06H	04H-06H	1	00481	580HP	04H+	11.84	13.00		13	SVI	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	05H+	33.63	2.82		1	BLI	P 1
		10/96	H	02H-06H	04H-06H	1	00481	580HP	05H+	33.63	0.32		0.4	SVI	P 2
		10/96	H	02H-06H	04H-06H	1	00481	580HP	05H+	33.63	0.46		0.4	SVI	P 3
		10/96	H	02H-06H	04H-06H	1	00481	580HP	05H+	33.63	13.00		14	SVI	P 3
		10/96	H	06H-VS2	06H-07H		00483	580HP	06H+	0.66	3.42		0.5	SVI	P 2
		10/96	H	06H-VS2	06H-07H		00483	580HP	06H+	0.66	6.68		0.5	SVI	P 3
		10/96	H	06H-VS2	06H-07H		00483	580HP	06H+	0.66	4.00		31	SVI	P 3
		10/96	H	06H-VS2	07H-VS2		00459	580HP	09H-	0.11	0.47		0	<20	P 3
		10/96	H	06H-VS2	07H-VS2		00459	580HP	09H+	0.89	1.14		0	20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00069	610VS	09H+	0.96	0.75		0	<20	P 2
		10/96	H	06H-VS2	07H-VS2		00459	580HP	BW1+	1.90	0.32		0	<20	P 3
139	82	10/96	H	07H-VS3	07H-VS3		00458	580HP	BW1-	1.90	0.49		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00458	580HP	BW1+	1.77	1.39		0	25	P 3
		10/96	C	TEC-TEH	TEC-TEH		00066	610VS	BW1+	2.12	0.55		0	<20	P 2
141	82	10/96	C	TEC-TEH	TEC-TEH		00066	610VS	VS1+	0.98	0.60		0	<20	P 2
149	82	10/96	H	07H-VS3	07H-VS3		00459	580HP	VS1+	1.02	0.36		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00459	580HP	VS3-	0.79	0.67		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00066	610VS	VS3-	0.74	0.38		0	<20	P 2
157	82	10/96	C	TEC-TEH	TEC-TEH		00080	610VS	03C+	0.75	0.64		0	<20	P 2



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 19 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
32	83	10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW2-	2.01	0.84	0	21	P 2	
		10/96	C	BW2-BW2	BW2-BW2	1	00241	580HP	BW2-	2.01	0.80	0	<20	P 3	
44	83	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.26	0.2	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.87	0.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.00	24	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.12	0.2	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.60	0.3	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.15	0.00	19	MCI	P 4	
46	83	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	0.61	0.4	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	1.21	0.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.00	22.00	22	SCI	P 4	
52	83	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.07	0.13	0.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.07	0.96	0.4	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.07	0.00	61	SCI	P 4	
74	83	10/96	C	TEC-TEH	TEC-TEH		00194	610LF	VS3+	1.07	0.68	60	<20	P 2	
110	83	10/96	H	07H-VS3	07H-VS3		00392	580HP	08H+	0.99	0.81	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00045	610HS	08H+	1.03	0.50	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	BW1+	1.95	0.44	0	<20	P 3	
112	83	10/96	H	07H-VS3	07H-VS3		00393	580HP	07H+	0.86	0.61	0	<20	P 3	
118	83	10/96	H	07H-VS3	07H-VS3		00453	580HP	09H+	0.94	0.56	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00453	580HP	09H+	0.13	0.38	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00453	580HP	BW1+	1.63	0.57	0	<20	P 3	
122	83	10/96	H	07H-VS2	07H-VS2		00459	580HP	07H-	0.83	0.24	0	<20	P 3	
		10/96	H	07H-VS2	07H-VS2		00459	580HP	VS1-	1.05	0.57	0	<20	P 3	
132	83	10/96	H	07H-VS3	07H-VS3		00445	580HP	BW1+	1.92	0.71	0	<20	P 3	
140	83	10/96	H	07H-VS3	07H-VS3		00445	580HP	BW1+	1.74	0.98	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00067	610VS	BW1+	2.21	0.53	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00067	610VS	VS1+	0.88	0.47	0	<20	P 2	
148	83	10/96	H	07H-VS3	07H-VS3		00445	580HP	BW1+	1.78	1.03	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00067	610VS	BW1+	1.97	0.37	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00067	610VS	VS1+	0.82	0.64	0	<20	P 2	
150	83	10/96	H	07H-VS3	07H-VS3		00446	580HP	09H+	0.03	0.51	0	<20	P 3	
33	84	10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW1-	2.25	0.44	0	<20	P 2	
		10/96	C	VS4-VS4	VS4-VS4	1	00241	580HP	VS4-	1.02	3.54	0	41	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00132	610VS	VS4-	0.69	3.32	0	44	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW2+	1.75	0.33	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW2+	1.75	0.63	0	<20	P 2	
109	84	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	08H+	1.25	0.42	0	<20	P 2	
111	84	10/96	H	07H-VS3	07H-VS3		00392	580HP	07H+	0.93	0.76	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	08H+	0.97	0.92	0	<20	P 3	
113	84	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	VS2+	0.91	0.54	0	<20	P 2	
117	84	10/96	H	07H-VS3	07H-VS3		00395	580HP	09H+	1.36	0.58	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00067	610VS	09H+	1.49	0.90	0	21	P 2	
123	84	10/96	C	TEC-TEH	TEC-TEH		00067	610VS	07H+	0.87	0.68	0	<20	P 2	
		10/96	H	07H-VS2	07H-VS2		00486	580HP	07H+	0.88	1.03	0	<20	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 20 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS2	07H-VS2	00483	580HP	07H+	0.91		0.98		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS2	00486	580HP	VS1+	0.83		0.49		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS2	00483	580HP	VS1+	0.86		0.59		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	VS1+	1.06		0.41		0	<20	P 2	
129	84	10/96	H	07H-VS3	07H-VS3	00446	580HP	BW1+	9.63		0.00		1.3	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3	00446	580HP	BW1+	9.63		0.60		1.2	SVI	P 4	
		10/96	H	07H-VS3	07H-VS3	00446	580HP	BW1+	9.63		0.00		43	SVI	P 4	
131	84	10/96	H	07H-VS3	07H-VS3	00445	580HP	BW1-	1.75		0.94		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00445	580HP	BW1+	1.77		1.27		0	20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	BW1+	1.92		0.42		0	<20	P 2	
135	84	10/96	H	07H-VS3	07H-VS3	00445	580HP	07H+	25.44		0.64		0.3	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3	00445	580HP	07H+	25.44		0.76		0.3	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	00445	580HP	07H+	25.44		9.00		9	SVI	P 3	
139	84	10/96	H	07H-VS3	07H-VS3	00445	580HP	BW1+	1.82		0.63		0	<20	P 3	
149	84	10/96	H	07H-VS3	07H-VS3	00446	580HP	BW1+	1.73		1.44		0	25	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	BW1+	2.13		0.42		0	<20	P 2	
52	85	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.00		0.0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.20		0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.11		0.00		38	SCI	P 4	
80	85	10/96	C	TEC-TEH	TEC-TEH	00192	610VS	VS5+	0.85		0.40		0	<20	P 2	
108	85	10/96	C	TEC-TEH	TEC-TEH	00044	610VS	08H+	1.06		0.44		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00220	580HP	BW1+	1.72		1.32		0	22	P 3	
112	85	10/96	H	07H-VS3	07H-VS3	00393	580HP	07H+	0.77		0.52		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	07H+	0.95		0.69		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00393	580HP	08H+	0.85		1.35		0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00044	610VS	08H+	0.88		0.99		0	23	P 2	
120	85	10/96	H	07H-VS3	07H-VS3	00446	580HP	07H+	0.84		1.01		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	07H+	0.98		0.55		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00446	580HP	08H+	0.85		1.05		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	08H+	1.04		0.58		0	<20	P 2	
122	85	10/96	H	07H-VS2	07H-VS2	00450	580HP	08H-	0.10		0.77		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	08H+	0.00		0.34		0	<20	P 2	
		10/96	H	07H-VS2	07H-VS2	00450	580HP	VS1-	0.98		1.00		0	<20	P 3	
126	85	10/96	H	07H-VS3	07H-VS3	00446	580HP	VS1-	0.86		0.94		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	VS1-	0.80		0.56		0	<20	P 2	
128	85	10/96	H	07H-VS3	07H-VS3	00486	580HP	BW1+	1.46		0.62		0	<20	P 3	
140	85	10/96	H	07H-VS3	07H-VS3	00445	580HP	BW1+	1.97		0.58		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	BW1+	2.23		0.35		0	<20	P 2	
142	85	10/96	H	07H-VS3	07H-VS3	00446	580HP	BW1+	1.82		0.75		0	<20	P 3	
146	85	10/96	H	07H-VS3	07H-VS3	00450	580HP	BW1+	2.18		0.69		0	<20	P 3	
148	85	10/96	H	07H-VS3	07H-VS3	00445	580HP	BW1+	2.04		0.90		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	BW1+	2.17		0.31		0	<20	P 2	
150	85	10/96	H	07H-VS3	07H-VS3	00446	580HP	VS3-	0.97		1.87		0	27	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	VS3-	0.91		1.15		0	25	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00067	610VS	03C+	18.09		0.35		98	36	P 1	



CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 21 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	03C-04C	03C-04C	1	00243	580HP	03C+	18.09	0.27	.4	SVI	P 2	
		10/96	C	03C-04C	03C-04C	1	00243	580HP	03C+	18.09	0.63	.2	SVI	P 3	
		10/96	C	03C-04C	03C-04C	1	00243	580HP	03C+	18.09	3.00	11	SVI	P 3	
156	85	10/96	C	TEC-TEH	TEC-TEH		00079	610VS	BW2-	1.82	0.32	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00079	610VS	03C+	0.80	0.55	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00079	610VS	02C-	1.01	0.41	0	<20	P 2	
158	85	10/96	C	TEC-TEH	TEC-TEH		00080	610VS	VS7-	0.83	0.77	0	<20	P 2	
35	86	10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW2-	1.87	0.48	0	<20	P 2	
51	86	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH-	0.01	0.76	0.5	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH-	0.01	1.06	0.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH-	0.01	15.00	23	SCI	P 4	
59	86	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.12	0.45	0.7	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.12	0.80	0.5	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.12	57.00	64	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	0.94	0.7	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	1.24	0.8	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	33.00	51	MCI	P 4	
107	86	10/96	C	TEC-TEH	TEC-TEH		00045	610HS	BW1+	2.00	0.34	0	<20	P 2	
111	86	10/96	C	TEC-TEH	TEC-TEH		00045	610HS	BW1+	2.00	0.28	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	BW1+	2.04	1.41	0	<20	P 3	
113	86	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	07H+	0.84	0.38	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00044	610VS	08H+	0.85	0.85	0	20	P 2	
		10/96	H	07H-VS3	07H-VS3		00393	580HP	08H+	0.96	1.17	0	<20	P 3	
117	86	10/96	H	07H-VS3	07H-VS3		00395	580HP	BW1+	1.76	1.55	0	25	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00065	610VS	BW1+	1.85	0.48	0	<20	P 2	
119	86	10/96	H	07H-VS3	07H-VS3		00484	580HP	09H-	0.90	0.59	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00065	610VS	BW1+	1.86	0.64	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00484	580HP	BW1+	1.96	1.28	0	21	P 3	
135	86	10/96	H	07H-VS3	07H-VS3		00439	580HP	BW1-	1.54	0.63	0	<20	P 3	
159	86	10/96	C	TEC-TEH	TEC-TEH		00080	610VS	04C-	0.87	1.03	0	24	P 2	
36	87	10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW1-	2.25	0.43	0	<20	P 2	
38	87	10/96	C	TEC-TEH	TEC-TEH		00132	610VS	BW1-	2.15	0.26	0	<20	P 2	
56	87	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	0.00	0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	0.37	0.3	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	0.00	29	SCI	P 4	
60	87	10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.04	0.28	0.7	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.04	0.72	0.7	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00028	600HP	TSH-	0.04	0.00	26	SCI	P 4	
62	87	10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	0.00	0	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	0.71	0.4	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.13	0.00	83	SCI	P 4	
84	87	10/96	C	TEC-TEH	TEC-TEH		00192	610VS	VS3+	0.88	0.32	0	<20	P 2	
114	87	10/96	C	TEC-TEH	TEC-TEH		00045	610HS	BW1+	1.92	0.31	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00394	580HP	BW1+	2.00	1.23	0	<20	P 3	
116	87	10/96	H	07H-VS3	07H-VS3		00395	580HP	BW1+	1.82	1.16	0	20	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	TEC-TEH	TEC-TEH			00044	610VS	BW1+	2.06	0.40		0	<20	P 2
118	87	10/96	C	TEC-TEH	TEC-TEH			00065	610VS	09H-	0.89	0.43		0	<20	P 2
		10/96	H	07H-VS3	07H-BW1			00438	580HP	09H-	0.73	1.04		0	<20	P 3
		10/96	H	07H-VS3	07H-BW1			00438	580HP	BW1+	1.84	0.81		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00065	610VS	BW1+	2.03	0.46		0	<20	P 2
		10/96	H	07H-VS3	BW1-VS3			00484	580HP	BW1+	2.12	0.60		0	<20	P 3
134	87	10/96	H	07H-VS3	07H-VS3			00425	580HP	BW1+	1.83	0.73		0	<20	P 3
136	87	10/96	H	07H-VS3	07H-VS3			00429	580HP	BW1-	0.47	0.71		0	<20	P 3
138	87	10/96	C	TEC-TEH	TEC-TEH			00065	610VS	09H+	0.99	0.44		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00430	580HP	09H+	1.04	0.41		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00430	580HP	BW1-	2.19	0.57		0	<20	P 3
146	87	10/96	H	07H-VS3	07H-VS3			00430	580HP	BW1+	1.65	0.93		0	<20	P 3
148	87	10/96	H	07H-VS3	07H-VS3			00424	580HP	09H-	1.17	0.52		0	<20	P 3
158	87	10/96	C	TEC-TEH	TEC-TEH			00080	610VS	05C-	0.97	1.48		0	30	P 2
		10/96	C	TEC-TEH	TEC-TEH			00080	610VS	03C+	0.87	0.47		0	<20	P 2
105	88	10/96	C	TEC-TEH	TEC-TEH			00044	610VS	BW1+	2.23	0.31		0	<20	P 2
113	88	10/96	H	07H-VS3	07H-VS3			00393	580HP	07H+	0.75	0.39		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00393	580HP	BW1+	1.73	0.81		0	<20	P 3
117	88	10/96	C	TEC-TEH	TEC-TEH			00065	610VS	09H-	0.77	0.87		0	20	P 2
		10/96	H	07H-VS3	07H-VS3			00395	580HP	09H-	0.76	1.38		0	23	P 3
		10/96	H	07H-VS3	07H-VS3			00395	580HP	BW1+	1.95	0.53		0	<20	P 3
119	88	10/96	C	TEC-TEH	TEC-TEH			00065	610VS	09H-	0.06	1.20		0	26	P 2
		10/96	H	07H-VS3	07H-VS3			00424	580HP	09H-	0.01	1.58		0	26	P 3
131	88	10/96	C	TEC-TEH	TEC-TEH			00065	610VS	05H+	0.91	0.45		0	<20	P 2
139	88	10/96	H	07H-VS3	07H-VS3			00425	580HP	BW1+	1.82	0.92		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00065	610VS	BW1+	2.13	0.38		0	<20	P 2
153	88	10/96	H	07H-VS3	07H-VS3	2		00481	580HP	BW1+	1.83	0.59		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	2		00481	580HP	VS1-	1.00	1.82		0	25	P 3
		10/96	C	TEC-TEH	TEC-TEH			00065	610VS	VS1-	0.73	1.27		0	27	P 2
		10/96	H	07H-VS3	07H-VS3	2		00481	580HP	VS1+	0.69	0.45		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	2		00481	580HP	VS3-	1.19	0.55		0	<20	P 3
159	88	10/96	C	TEC-TEH	TEC-TEH			00080	610VS	04C-	1.07	0.40		0	<20	P 2
48	89	10/96	C	TEC-TEH	TEC-06C			00213	610VS						OBS	
74	89	10/96	C	TEC-TEH	TEC-TEH			00208	610VS	VS3+	1.05	0.84		0	20	P 2
110	89	10/96	H	07H-VS3	07H-VS3			00392	580HP	07H-	0.93	0.82		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00045	610HS	07H-	0.85	0.54		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00392	580HP	07H+	0.85	0.84		0	<20	P 3
112	89	10/96	H	07H-VS3	07H-VS3			00393	580HP	07H+	0.75	0.43		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00044	610VS	07H+	0.93	0.54		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00393	580HP	08H+	0.77	0.90		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00044	610VS	08H+	1.16	0.54		0	<20	P 2
118	89	10/96	C	TEC-TEH	TEC-TEH			00063	610VS	08H+	0.95	0.67		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00424	580HP	08H+	0.95	0.97		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00063	610VS	BW1+	2.00	0.65		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00424	580HP	BW1+	2.55	1.19		0	23	P 3



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
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ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
124	89/10/96	H 07H-VS2 07H-VS3					00424	580HP	VS1-	0.89	0.55	0	<20	P 3
128	89/10/96	H 07H-VS3 07H-VS3					00419	580HP	BW1+	1.94	0.49	0	<20	P 3
134	89/10/96	C TEC-TEH TEC-TEH					00064	610VS	VS1+	0.83	0.49	0	<20	P 2
138	89/10/96	C TEC-TEH TEC-TEH					00064	610VS	VS5+	0.92	0.39	0	<20	P 2
146	89/10/96	C TEC-TEH TEC-TEH					00064	610VS	VS1+	0.86	0.35	0	<20	P 2
148	89/10/96	H 07H-VS3 07H-VS3					00424	580HP	BW1+	1.73	0.82	0	<20	P 3
150	89/10/96	H 07H-VS3 07H-VS3					00425	580HP	09H-	0.99	0.44	0	<20	P 3
	10/96	H 07H-VS3 07H-VS3					00425	580HP	BW1+	1.72	0.92	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00065	610VS	BW1+	2.24	0.43	0	<20	P 2
156	89/10/96	C TEC-TEH TEC-TEH					00065	610VS	BW2+	1.82	0.62	0	<20	P 2
158	89/10/96	C TEC-TEH TEC-TEH					00079	610VS	VS5+	0.82	0.57	0	<20	P 2
81	90/10/96	C TEC-TEH TEC-TEH					00209	610VS	01H+	4.90	4.36	13	BLI	1
	10/96	C TEC-TEH TEC-TEH					00209	610VS	08C+	4.31	1.39	9	BLI	1
105	90/10/96	C TEC-TEH TEC-TEH					00059	610VS	BW1+	2.07	0.26	0	<20	P 2
109	90/10/96	C TEC-TEH TEC-TEH					00044	610VS	BW1+	2.19	0.68	0	<20	P 2
115	90/10/96	H 07H-VS3 07H-VS3					00394	580HP	BW1+	2.00	1.30	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00044	610VS	BW1+	2.19	0.41	0	<20	P 2
117	90/10/96	H 07H-VS3 07H-VS3					00395	580HP	09H-	0.16	1.34	0	22	P 3
	10/96	C TEC-TEH TEC-TEH					00063	610VS	09H+	0.06	0.71	0	<20	P 2
121	90/10/96	H 07H-VS3 07H-VS3					00420	580HP	09H+	0.13	0.89	0	<20	P 3
	10/96	H 07H-VS3 07H-VS3					00420	580HP	09H+	0.82	0.82	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00063	610VS	09H+	1.00	0.47	0	<20	P 2
129	90/10/96	H 07H-VS3 07H-VS3					00420	580HP	BW1+	3.85	0.00	0	SAT	P 2
	10/96	H 07H-VS3 07H-VS3					00420	580HP	BW1+	3.85	0.64	2.0	SAT	P 3
	10/96	H 07H-VS3 07H-VS3					00420	580HP	BW1+	3.85	0.00	105	SAT	P 3
149	90/10/96	H 07H-VS3 07H-VS3					00425	580HP	09H-	0.22	0.24	0	<20	P 3
	10/96	H 07H-VS3 07H-VS3					00425	580HP	BW1-	1.69	0.50	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00062	610VS	BW1+	1.90	0.25	0	<20	P 2
	10/96	H 07H-VS3 07H-VS3					00425	580HP	BW1+	1.90	0.48	0	<20	P 3
155	90/10/96	C TEC-TEH TEC-TEH					00061	610VS	VS7+	1.06	0.49	0	<20	P 2
159	90/10/96	C TEC-TEH TEC-TEH					00080	610VS	VS1+	0.88	0.57	0	<20	P 2
	10/96	C TEC-TEH TEC-TEH					00080	610VS	VS3-	0.85	0.47	0	<20	P 2
	10/96	C TEC-TEH TEC-TEH					00080	610VS	VS3+	0.76	0.46	0	<20	P 2
	10/96	C TEC-TEH TEC-TEH					00080	610VS	BW2+	1.88	0.53	0	<20	P 2
104	91/10/96	C TEC-TEH TEC-TEH					00044	610VS	BW1+	2.23	0.36	0	<20	P 2
106	91/10/96	C TEC-TEH TEC-TEH					00045	610VS	BW1+	2.00	0.24	0	<20	P 2
110	91/10/96	H 07H-VS3 07H-VS3					00392	580HP	08H+	0.76	0.50	0	<20	P 3
112	91/10/96	H 07H-VS3 07H-VS3					00393	580HP	07H+	1.01	0.48	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00044	610VS	VS2-	0.86	0.42	0	<20	P 2
118	91/10/96	H 07H-VS3 07H-VS3					00484	580HP	09H-	0.98	1.01	0	<20	P 3
	10/96	C TEC-TEH TEC-TEH					00061	610VS	09H-	0.78	0.44	0	<20	P 2
	10/96	C TEC-TEH TEC-TEH					00061	610VS	BW1-	2.00	0.42	0	<20	P 2
	10/96	H 07H-VS3 07H-VS3					00484	580HP	BW1-	1.92	0.97	0	<20	P 3
120	91/10/96	H 07H-VS3 08H-VS3					00419	580HP	08H-	0.14	0.74	0	<20	P 3
	10/96	H 07H-VS3 08H-VS3					00419	580HP	BW1+	1.72	1.36	0	20	P 3

ROCKRIDGE TECHNOLOGIES



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1+	2.03	0.38	0	<20	P 2	
122	91	10/96	H	07H-VS2	07H-VS3		00420	580HP	VS1+	0.85	0.58	0	<20	P 3	
126	91	10/96	C	TEC-TEH	TEC-TEH		00062	610VS	08H+	0.00	0.24	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00420	580HP	08H+	0.00	0.37	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00420	580HP	09H+	0.79	0.46	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	09H+	0.92	0.45	0	<20	P 2	
138	91	10/96	H	07H-VS3	07H-VS3		00420	580HP	VS1-	1.07	0.59	0	<20	P 3	
146	91	10/96	H	07H-VS3	07H-VS3		00420	580HP	VS1-	0.98	0.74	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00420	580HP	VS1+	1.09	0.34	0	<20	P 3	
150	91	10/96	H	07H-VS3	07H-VS3		00418	580HP	BW1+	1.72	0.94	0	<20	P 3	
158	91	10/96	C	TEC-TEH	TEC-TEH		00079	610VS	BW2-	1.80	0.72	0	<20	P 2	
101	92	10/96	C	TEC-TEH	TEC-TEH		00044	610VS	BW1+	2.17	0.35	0	<20	P 2	
111	92	10/96	H	07H-VS3	07H-VS3		00392	580HP	VS2-	1.14	1.16	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00047	610VS	VS2-	1.06	0.98	0	26	P 2	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	VS2+	1.08	0.59	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	VS3-	1.05	0.79	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00047	610VS	VS3-	0.86	0.48	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00047	610VS	VS3+	0.97	1.59	0	33	P 2	
		10/96	H	07H-VS3	07H-VS3		00392	580HP	VS3+	1.08	1.99	0	27	P 3	
113	92	10/96	C	TEC-TEH	TEC-TEH		00046	610VS	BW1-	1.76	0.32	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00393	580HP	BW1-	1.61	0.65	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00393	580HP	VS2+	0.54	0.70	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00046	610VS	VS2+	0.92	0.78	0	22	P 2	
		10/96	H	07H-VS3	07H-VS3		00393	580HP	VS3+	0.85	0.73	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00046	610VS	VS3+	0.98	0.68	0	20	P 2	
115	92	10/96	H	07H-VS3	07H-VS3		00394	580HP	BW1+	1.78	1.15	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00046	610VS	BW1+	1.82	0.39	0	<20	P 2	
117	92	10/96	H	07H-VS3	07H-VS3		00395	580HP	09H-	0.80	1.27	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00061	610VS	09H-	0.73	1.05	0	22	P 2	
119	92	10/96	H	07H-VS3	07H-VS3		00411	580HP	09H+	0.78	1.61	0	27	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	09H+	1.00	0.83	0	21	P 2	
		10/96	H	07H-VS3	07H-VS3		00411	580HP	BW1+	1.44	0.82	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1+	2.08	0.34	0	<20	P 2	
123	92	10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1+	2.09	0.16	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	VS1+	0.88	0.36	0	<20	P 2	
125	92	10/96	H	07H-VS2	07H-VS3		00412	580HP	09H+	0.91	0.53	0	<20	P 3	
127	92	10/96	H	07H-VS3	07H-VS3		00484	580HP	BW1-	2.30	0.66	0	<20	P 3	
143	92	10/96	H	07H-VS3	08H-VS1		00484	580HP	BW1+	2.24	1.11	0	<20	P 3	
145	92	10/96	H	07H-VS3	08H-VS3		00420	580HP	BW1+	1.81	0.65	0	<20	P 3	
149	92	10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1-	2.00	0.34	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00418	580HP	BW1-	1.85	0.82	0	<20	P 3	
151	92	10/96	H	07H-VS3	07H-VS3	5	00493	580HP	BW1+	1.84	0.96	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00061	610VS	BW1+	2.00	0.44	0	<20	P 2	
157	92	10/96	C	TEC-TEH	TEC-TEH		00079	610VS	BW2-	1.78	0.22	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW2+	2.00	0.27	0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
159	92	10/96	H	07H-VS3	07H-VS3	5	00494	580HP	BW1- 2.00	0.54		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00080	610VS	BW1- 1.86	0.22		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	5	00494	580HP	BW1+ 2.03	1.57		0	25	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00080	610VS	BW1+ 2.24	1.08		0	25	P 2	
		10/96	H	07H-VS3	07H-VS3	5	00494	580HP	VS1+ 0.94	0.57		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00080	610VS	VS1+ 0.97	0.71		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00080	610VS	BW2+ 1.91	0.28		0	<20	P 2	
110	93	10/96	H	07H-VS3	07H-VS3		00392	580HP	BW1+ 2.02	1.13		0	<20	P 3	
112	93	10/96	H	07H-VS3	07H-VS3		00393	580HP	BW1+ 1.86	0.99		0	<20	P 3	
116	93	10/96	C	TEC-TEH	TEC-TEH		00046	610VS	09H+ 1.40	0.57		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00395	580HP	09H+ 1.45	0.66		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00395	580HP	BW1+ 0.48	0.00		0	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3		00395	580HP	BW1+ 0.48	0.63		0.7	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3		00395	580HP	BW1+ 0.48	0.00		67	SVI	P 3	
120	93	10/96	H	07H-VS3	07H-VS3		00411	580HP	BW1+ 1.64	1.14		0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1+ 2.00	0.29		0	<20	P 2	
124	93	10/96	H	07H-VS2	07H-VS2		00409	580HP	09H- 0.89	0.62		0	<20	P 3	
126	93	10/96	H	07H-VS3	07H-VS3		00412	580HP	08H+ 40.00	0.30		4.1	MAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	08H+ 40.00	0.40		4.8	MAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	08H+ 40.00	30.00		24	MAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	09H+ 8.00	0.00		0	MAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	09H+ 8.00	0.31		5.7	MAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	09H+ 8.00	0.00		24	MAI	P 3	
128	93	10/96	C	TEC-TEH	TEC-TEH		00061	610VS	09H+ 0.94	0.44		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS1		00484	580HP	09H+ 0.95	0.91		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00411	580HP	BW1+ 0.83	0.00		0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00411	580HP	BW1+ 0.83	0.39		1.0	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00411	580HP	BW1+ 0.83	0.00		55	SAI	P 3	
132	93	10/96	H	07H-VS3	07H-VS3		00409	580HP	BW1- 1.47	0.00		0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00409	580HP	BW1- 1.47	0.49		2.7	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00409	580HP	BW1- 1.47	0.00		40	SAI	P 3	
134	93	10/96	H	07H-VS3	07H-VS3		00412	580HP	BW1+ 1.97	0.68		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1+ 2.00	0.17		0	<20	P 2	
138	93	10/96	C	TEC-TEH	TEC-TSH		00062	610VS	VS1- 0.86	0.58		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00408	580HP	VS1- 0.86	0.75		0	<20	P 3	
140	93	10/96	C	TEC-TEH	TEC-TEH		00061	610VS	BW1- 1.98	0.19		0	<20	P 2	
144	93	10/96	H	07H-VS3	09H-VS1		00484	580HP	BW1- 2.00	0.46		0	<20	P 3	
150	93	10/96	C	TEC-TEH	TEC-TEH		00062	610VS	BW1- 2.00	0.23		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00412	580HP	BW1- 1.81	0.64		0	<20	P 3	
158	93	10/96	C	TEC-TEH	TEC-TEH		00079	610VS	BW2- 1.93	0.49		0	<20	P 2	
115	94	10/96	C	TEC-TEH	TEC-02H		00046	610VS	07C- 0.91	0.34		0	<20	P 2	
123	94	10/96	H	07H-VS2	07H-VS3		00409	580HP	VS1+ 0.78	0.58		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00061	610VS	VS1+ 0.99	0.34		0	<20	P 2	
125	94	10/96	H	07H-VS2	07H-VS3		00412	580HP	09H- 0.12	1.14		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00062	610VS	09H+ 0.00	0.48		0	<20	P 2	



CUMULATIVE REPORT  
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STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	EXAM	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
	10/96	H	07H-VS2	07H-VS3	00412	580HP	09H+	0.93		1.05		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	09H+	0.98		0.62		0	<20	P 2	
127	94	10/96	H	07H-VS3	07H-VS3	00411	580HP	08H+	0.82	0.58		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00061	610VS	08H+	0.93		0.44		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00411	580HP	09H-	0.59		1.37		0	21	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00061	610VS	09H-	0.13		0.61		0	<20	P 2	
133	94	10/96	H	07H-VS3	07H-VS3	00412	580HP	08H-	0.15	0.62		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	08H-	0.06		0.32		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00412	580HP	08H+	0.89		0.80		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	08H+	0.93		0.41		0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	09H+	0.95		0.43		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00412	580HP	09H+	0.97		0.66		0	<20	P 3	
139	94	10/96	H	07H-VS3	07H-VS3	00409	580HP	BW1+	1.80	0.55		0	<20	P 3	
145	94	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	BW1+	2.00	0.16		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00408	580HP	BW1+	2.17		0.51		0	<20	P 3	
147	94	10/96	H	07H-VS3	07H-VS3	00409	580HP	BW1+	1.92	1.11		0	20	P 3	
149	94	10/96	H	07H-VS3	07H-VS3	00412	580HP	BW1+	1.84	0.55		0	<20	P 3	
159	94	10/96	C	TEC-TEH	TEC-TEH	00080	610VS	08C+	0.83	0.62		0	<20	P 2	
40	95	10/96	C	TEC-TEH	TEC-TEH	00214	610LF	BW1-	1.90	0.29		0	<20	P 2	
60	95	10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH-	0.01	1.05		0.4	SCI	P 2	
	10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH-	0.01		2.35		0.3	SCI	P 4	
	10/96	H	TSH-TSH	TSH-TSH	00028	600HP	TSH-	0.01		15.00		40	SCI	P 4	
88	95	10/96	C	TEC-TEH	TEC-TEH	00211	610VS	04H+	15.60	5.55		11	BLI	P 1	
	10/96	C	TEC-TEH	TEC-TEH	00211	610VS	02C+	37.94		3.99		7	BLI	P 1	
96	95	10/96	C	TEC-TEH	TEC-TEH	00046	610VS	VS2+	0.72	0.50		0	<20	P 2	
104	95	10/96	H	07H-VS3	07H-VS3	00219	580HP	BW1+	1.82	0.62		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00046	610VS	BW1+	2.24		0.32		0	<20	P 2	
108	95	10/96	C	TEC-TEH	TEC-TEH	00046	610VS	VS2-	0.91	0.39		0	<20	P 2	
112	95	10/96	C	TEC-TEH	TEC-TEH	00046	610VS	VS2-	0.85	0.78		0	22	P 2	
	10/96	H	07H-VS3	07H-VS3	00393	580HP	VS2-	0.83		1.11		0	<20	P 3	
	10/96	H	07H-VS3	07H-VS3	00393	580HP	VS3-	0.49		0.94		0	<20	P 3	
118	95	10/96	H	07H-VS3	07H-VS2	00411	580HP	09H+	0.40	0.45		0	<20	P 3	
120	95	10/96	H	07H-VS3	07H-VS3	00408	580HP	BW1+	1.68	0.66		0	<20	P 3	
122	95	10/96	H	07H-VS2	07H-VS3	00409	580HP	VS1+	0.80	1.07		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00061	610VS	VS1+	1.03		0.95		0	20	P 2	
124	95	10/96	H	07H-VS2	07H-VS3	00412	580HP	09H-	0.67	0.44		0	<20	P 3	
	10/96	H	07H-VS2	07H-VS3	00412	580HP	VS1-	0.60		0.82		0	<20	P 3	
130	95	10/96	C	TEC-TEH	TEC-TEH	00061	610VS	09H+	0.96	0.52		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00408	580HP	09H+	0.96		1.17		0	<20	P 3	
132	95	10/96	H	07H-VS3	07H-VS3	00409	580HP	08H-	0.19	0.87		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	08H-	0.11		0.45		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00409	580HP	09H+	0.83		1.07		0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	09H+	1.00		0.61		0	<20	P 2	
	10/96	H	07H-VS3	07H-VS3	00409	580HP	BW1+	4.39		0.00		0	SVI	P 2	
	10/96	H	07H-VS3	07H-VS3	00409	580HP	BW1+	4.39		0.91		0.6	SVI	P 3	



CUMULATIVE REPORT  
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STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS3	07H-VS3	00409	580HP	BW1+	4.39		0.00		68	SVI	P 3	
138	95	10/96	C	TEC-TEH	TEC-TEH	00061	610VS	BW1+	2.05		0.28		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00408	580HP	BW1+	2.05		0.63		0	<20	P 3	
146	95	10/96	H	07H-VS3	07H-VS3	00408	580HP	VS1-	0.23		0.86		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00408	580HP	VS1+	0.50		0.57		0	<20	P 3	
150	95	10/96	H	07H-VS3	07H-VS3	00412	580HP	BW1+	1.73		1.35		0	22	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00061	610VS	BW1+	2.00		0.39		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00412	580HP	VS1-	0.03		0.72		0	<20	P 3	
152	95	10/96	C	TEC-TEH	TEC-TEH	00062	610VS	VS5-	0.81		0.46		0	<20	P 2	
111	96	10/96	H	07H-VS3	07H-VS3	00214	580HP	08H+	0.60		0.76		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00214	580HP	BW1+	1.76		1.33		0	<20	P 3	
115	96	10/96	H	07H-VS3	07H-BW1	00273	580HP	08H+	0.92		1.01		0	<20	P 3	
117	96	10/96	H	07H-VS3	07H-BW1	00273	580HP	07H+	1.01		1.01		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00049	610VS	09H-	0.95		0.40		0	<20	P 2	
119	96	10/96	H	07H-VS3	07H-VS3	00292	580HP	08H+	0.85		0.83		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00292	580HP	BW1+	1.75		1.35		0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00048	610VS	BW1+	1.87		0.50		0	21	P 2	
121	96	10/96	C	TEC-TEH	TEC-TEH	00049	610VS	BW1+	2.22		0.30		0	<20	P 2	
127	96	10/96	H	07H-VS3	07H-VS3	00293	580HP	08H+	0.79		0.81		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00048	610VS	08H+	0.86		0.43		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00293	580HP	09H+	0.89		0.60		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00048	610VS	09H+	0.91		0.42		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00293	580HP	BW1+	5.20		1.14		2.0	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3	00293	580HP	BW1+	5.20		1.77		1.6	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3	00293	580HP	BW1+	5.20		48.00		48	SAI	P 3	
147	96	10/96	H	07H-VS3	07H-VS3	00291	580HP	BW1-	1.64		0.53		0	<20	P 3	
159	96	10/96	C	TEC-TEH	TEC-TEH	00088	610VS	04C+	0.80		0.79		0	20	P 2	
58	97	10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		0.27		0.4	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		0.34		0.4	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH-	0.01		9.00		17	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.00		0.24		0.2	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.00		0.31		0.2	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH	00027	600HP	TSH+	0.00		5.00		15	MCI	P 4	
110	97	10/96	C	TEC-TEH	TEC-TEH	00022	610VS	BW1+	2.09		0.33		0	<20	P 2	
122	97	10/96	H	07H-VS2	07H-VS3	00299	580HP	08H-	0.15		0.76		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00048	610VS	09H+	0.95		0.29		0	<20	P 2	
		10/96	H	07H-VS2	07H-VS3	00299	580HP	09H+	1.14		0.45		0	<20	P 3	
136	97	10/96	H	07H-VS3	07H-VS3	00300	580HP	BW1+	1.22		0.57		0	<20	P 3	
148	97	10/96	C	TEC-TEH	TEC-TEH	00049	610VS	VS1-	0.90		0.73		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00291	580HP	VS1-	0.73		1.03		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00291	580HP	VS1+	0.78		0.72		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00049	610VS	VS1+	1.02		0.45		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00291	580HP	VS3+	0.92		0.94		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00049	610VS	VS3+	1.05		0.40		0	<20	P 2	
150	97	10/96	H	07H-VS3	07H-VS3	00291	580HP	BW1+	2.17		0.91		0	<20	P 3	



## CUMULATIVE REPORT

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STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
158	97/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00088	610VS	VS7-	0.78	0.26		0	<20	P 2
57	98/10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	0.72		0.3	SCI	P 2
	10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	1.28		0.3	SCI	P 4
	10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00027	600HP	TSH+	0.01	15.00		21	SCI	P 4
105	98/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00022	610VS	BW1+	2.14	0.33		0	<20	P 2
119	98/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00301	580HP	BW1+	2.03	0.68		0	<20	P 3
127	98/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00301	580HP	08H-	0.57	0.50		0	<20	P 3
139	98/10/96	H 07H-VS3 09H-VS3	H	07H-VS3	09H-VS3		00299	580HP	BW1+	1.68	0.62		0	<20	P 3
141	98/10/96	H 07H-VS3 09H-VS3	H	07H-VS3	09H-VS3		00300	580HP	BW1+	1.77	0.57		0	<20	P 3
149	98/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00300	580HP	BW1+	2.11	0.60		0	<20	P 3
38	99/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00214	610LF	BW1-	1.88	0.41		0	<20	P 2
78	99/10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00015	600HP	TSH+	0.00	0.61		0.7	SCI	P 2
	10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00015	600HP	TSH+	0.00	1.37		0.3	SCI	P 4
	10/96	H TSH-TSH TSH-TSH	H	TSH-TSH	TSH-TSH		00015	600HP	TSH+	0.00	9.00		28	SCI	P 4
110	99/10/96	H 07H-VS3 07H-08H	H	07H-VS3	07H-08H		00214	580HP	08H+	0.54	0.60		0	<20	P 3
114	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00273	580HP	08H+	1.06	0.63		0	<20	P 3
	10/96	H 07H-VS3 BW1-VS3	H	07H-VS3	BW1-VS3		00216	580HP	BW1+	1.16	1.36		0	23	P 3
118	99/10/96	H 07H-VS3 07H-09H	H	07H-VS3	07H-09H		00299	580HP	08H+	0.53	0.66		0	<20	P 3
	10/96	H 08H-09H 08H-09H	H	08H-09H	08H-09H		00299	580HP	09H+	0.74	1.17		0	<20	P 3
	10/96	H 07H-VS3 09H-VS3	H	07H-VS3	09H-VS3		00463	580HP	09H+	0.82	0.99		0	<20	P 3
	10/96	H 07H-VS3 09H-VS3	H	07H-VS3	09H-VS3		00463	580HP	BW1-	1.85	0.66		0	<20	P 3
	10/96	H 07H-VS3 09H-VS3	H	07H-VS3	09H-VS3		00463	580HP	BW1+	2.04	0.85		0	<20	P 3
120	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00300	580HP	BW1+	1.93	1.93		0	30	P 3
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00081	610VS	BW1+	1.97	0.71		0	<20	P 2
126	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00301	580HP	BW1+	2.12	1.49		0	20	P 3
130	99/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00082	610VS	VS1-	0.77	0.34		0	<20	P 2
132	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00300	580HP	BW1-	1.84	0.69		0	<20	P 3
134	99/10/96	C TEC-TEH TEC-BW2	C	TEC-TEH	TEC-BW2		00081	610VS	BW2+	17.87				OBS	
138	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00300	580HP	BW1+	1.83	0.77		0	<20	P 3
142	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00301	580HP	BW1+	1.79	0.37		0	<20	P 3
144	99/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00051	610VS	BW1+	2.17	0.42		0	<20	P 2
	10/96	H 07H-VS3 08H-VS3	H	07H-VS3	08H-VS3		00301	580HP	BW1+	2.17	1.73		0	22	P 3
148	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00465	580HP	09H+	0.86	1.11		0	20	P 3
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00051	610VS	09H+	0.89	0.54		0	<20	P 2
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00465	580HP	BW1-	1.84	0.66		0	<20	P 3
152	99/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	6	00490	580HP	BW1+	2.09	1.25		0	<20	P 3
158	99/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00088	610VS	04C+	0.83	0.36		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00088	610VS	03C+	0.79	0.33		0	<20	P 2
109	100/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00022	610VS	BW1+	1.77	0.43		0	<20	P 2
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00022	610VS	02C-	1.14	3.07		15	BLI	P 1
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00022	610VS	01C+	27.37	2.52		11	BLI	P 1
111	100/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00214	580HP	BW1+	1.79	0.57		0	<20	P 3
115	100/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH		00021	610VS	VS4+	0.81	0.73		0	<20	P 2
117	100/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00213	580HP	07H+	0.28	0.47		0	<20	P 3
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3		00213	580HP	09H+	1.10	0.95		0	<20	P 3



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	TEC-TEH	TEC-TEH		00081	610VS	09H+	1.49	1.10	0	21	P 2	
		10/96	H	07H-VS3	07H-VS3		00213	580HP	BW1+	1.75	0.86	0	<20	P 3	
119	100	10/96	H	07H-VS3	07H-VS3		00305	580HP	BW1+	1.75	1.22	0	20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00082	610VS	BW1+	1.86	0.51	0	<20	P 2	
123	100	10/96	H	07H-VS2	07H-VS2		00305	580HP	09H-	0.20	0.94	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00082	610VS	09H+	0.00	0.36	0	<20	P 2	
127	100	10/96	H	07H-VS3	07H-VS5		00307	580HP	09H+	0.74	0.62	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00052	610VS	09H+	0.92	0.58	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS5		00307	580HP	BW1+	1.75	1.05	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00052	610VS	BW1+	1.93	0.35	0	<20	P 2	
135	100	10/96	H	07H-VS3	07H-VS3		00307	580HP	BW1-	1.79	0.59	0	<20	P 3	
139	100	10/96	H	07H-VS3	08H-VS3		00305	580HP	BW1-	1.80	0.70	0	<20	P 3	
147	100	10/96	H	04H-05H	04H-05H	1	00282	580HP	04H+	6.01	0.28	.2	SVI	P 2	
		10/96	H	04H-05H	04H-05H	1	00282	580HP	04H+	6.01	0.41	.2	SVI	P 3	
		10/96	H	04H-05H	04H-05H	1	00282	580HP	04H+	6.01	43.00	40	SVI	P 3	
149	100	10/96	H	07H-VS3	07H-VS3		00306	580HP	BW1+	1.82	0.71	0	<20	P 3	
151	100	10/96	C	TEC-TEH	TEC-TEH		00052	610VS	BW1-	1.99	0.40	0	<20	P 2	
157	100	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	VS7-	0.98	1.00	0	21	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00087	610VS	BW2+	1.85	0.76	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00087	610VS	08C+	0.92	0.54	0	<20	P 2	
159	100	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	04C+	0.79	0.47	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	03C+	0.87	0.28	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	02C+	0.82	0.24	0	<20	P 2	
84	101	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	07H+	26.54	1.56	8	BLI	P 1	
114	101	10/96	H	07H-VS3	07H-VS3		00216	580HP	BW1+	1.84	0.83	0	<20	P 3	
116	101	10/96	H	07H-VS3	07H-VS3		00213	580HP	BW1+	1.90	1.26	0	21	P 3	
118	101	10/96	C	TEC-TEH	TEC-TEH		00052	610VS	VS6+	13.78	3.06	8	BLI	P 1	
120	101	10/96	H	07H-VS3	07H-VS3		00307	580HP	07H+	0.82	0.59	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00307	580HP	08H+	0.63	1.37	0	22	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00053	610VS	08H+	0.83	0.85	0	23	P 2	
132	101	10/96	H	07H-VS3	07H-VS3		00307	580HP	BW1+	1.75	1.03	0	<20	P 3	
140	101	10/96	H	07H-VS3	07H-VS3		00307	580HP	BW1-	1.98	0.64	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00307	580HP	BW1+	1.75	0.72	0	<20	P 3	
144	101	10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS1-	0.79	0.38	0	<20	P 2	
146	101	10/96	C	TEC-TEH	TEC-TEH		00052	610VS	09H+	0.92	0.40	0	<20	P 2	
150	101	10/96	H	07H-VS3	07H-VS3		00465	580HP	BW1+	1.90	0.74	0	<20	P 3	
152	101	10/96	H	05H-06H	05H-06H	1	00282	580HP	05H+	28.08	0.00	0	SVI	P 2	
		10/96	H	05H-06H	05H-06H	1	00282	580HP	05H+	28.08	0.45	.2	SVI	P 3	
		10/96	H	05H-06H	05H-06H	1	00282	580HP	05H+	28.08	0.00	35	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	1	00492	580HP	BW1+	2.00	0.94	0	<20	P 3	
156	101	10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS3-	0.82	0.35	0	<20	P 2	
158	101	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+	1.75	0.40	0	<20	P 2	
89	102	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	VS6-	0.75	0.15	0	<20	P 2	
101	102	10/96	C	TEC-TEH	TEC-TEH		00024	610VS	BW1+	2.06	0.89	0	29	P 2	
111	102	10/96	H	07H-VS3	07H-VS3		00214	580HP	VS2+	0.25	0.88	0	<20	P 3	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	+	CH	CHNG
115	102	10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS2+	0.96	2.03	0	35	P	2
		10/96	H	07H-VS3	07H-VS3		00216	580HP	VS2+	1.15	1.72	0	27	P	3
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS3-	0.70	1.49	0	29	P	2
		10/96	H	07H-VS3	07H-VS3		00216	580HP	VS3-	0.56	1.73	0	27	P	3
		10/96	H	07H-VS3	07H-VS3		00216	580HP	VS3+	0.29	0.80	0	<20	P	3
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS3+	1.11	1.09	0	24	P	2
		10/96	H	07H-VS3	07H-VS3		00216	580HP	VS3+	1.17	1.35	0	23	P	3
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS5-	0.76	0.85	0	20	P	2
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS5+	0.70	0.51	0	<20	P	2
127	102	10/96	H	07H-VS3	07H-VS3		00307	580HP	09H+	0.77	0.58	0	<20	P	3
133	102	10/96	H	07H-VS3	07H-VS3		00312	580HP	BW1+	1.79	0.52	0	<20	P	3
139	102	10/96	H	07H-VS3	07H-VS3		00314	580HP	BW1-	1.82	1.06	0	<20	P	3
143	102	10/96	H	07H-VS3	07H-VS3		00307	580HP	BW1-	2.01	0.66	0	<20	P	3
149	102	10/96	H	07H-VS3	07H-VS3		00312	580HP	BW1+	1.63	0.52	0	<20	P	3
151	102	10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS3-	0.85	0.31	0	<20	P	2
157	102	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	BW2+	1.80	0.51	0	<20	P	2
36	103	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW2-	2.08	0.20	0	<20	P	2
112	103	10/96	H	07H-VS3	07H-VS3		00215	580HP	07H+	0.82	0.67	0	<20	P	3
114	103	10/96	C	TEC-TEH	TEC-TEH		00024	610VS	08H+	0.92	0.33	0	<20	P	2
		10/96	H	07H-VS3	07H-VS3		00215	580HP	08H+	0.95	0.44	0	<20	P	3
118	103	10/96	C	TEC-TEH	TEC-TEH		00057	610VS	08H-	1.00	0.58	0	<20	P	2
		10/96	H	07H-VS3	07H-VS3		00319	580HP	08H+	0.91	0.84	0	<20	P	3
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	09H-	0.03	0.60	0	<20	P	2
		10/96	H	07H-VS3	07H-VS3		00319	580HP	09H+	0.20	1.25	0	<20	P	3
124	103	10/96	H	07H-VS2	07H-VS2		00319	580HP	BW1+	3.10	0.15	0.3	SAI	P	2
		10/96	H	07H-VS2	07H-VS2		00319	580HP	BW1+	3.10	0.34	0.4	SAI	P	3
		10/96	H	07H-VS2	07H-VS2		00319	580HP	BW1+	3.10	0.00	84	SAI	P	3
130	103	10/96	H	07H-VS3	07H-VS3		00312	580HP	BW1+	0.31	0.55	0	<20	P	3
132	103	10/96	H	07H-VS3	07H-VS3		00319	580HP	BW1-	1.76	0.53	0	<20	P	3
140	103	10/96	C	TEC-TEH	TEC-TEH		00057	610VS	BW1+	1.90	0.44	0	<20	P	2
		10/96	H	07H-VS3	08H-VS3		00319	580HP	BW1+	2.00	0.99	0	<20	P	3
142	103	10/96	H	07H-VS3	07H-VS3		00320	580HP	BW1+	1.98	0.83	0	<20	P	3
		10/96	H	07H-VS3	07H-VS3		00320	580HP	VS1+	0.22	1.13	0	20	P	3
		10/96	H	07H-VS3	07H-VS3		00320	580HP	VS3+	0.41	1.24	0	22	P	3
146	103	10/96	C	TEC-TEH	TEC-TEH		00058	610VS	VS1-	0.62	0.48	0	<20	P	2
		10/96	H	07H-VS3	07H-VS3		00465	580HP	VS1-	0.19	0.60	0	<20	P	3
		10/96	H	07H-VS3	07H-VS3		00465	580HP	VS3+	0.71	1.02	0	<20	P	3
		10/96	C	TEC-TEH	TEC-TEH		00058	610VS	VS3+	0.94	0.54	0	<20	P	2
148	103	10/96	H	07H-VS3	07H-VS3		00314	580HP	08H+	0.13	0.51	0	<20	P	3
		10/96	H	07H-VS3	07H-VS3		00314	580HP	BW1+	2.01	0.43	0	<20	P	3
150	103	10/96	H	07H-VS3	07H-VS3		00312	580HP	BW1+	1.85	0.87	0	<20	P	3
		10/96	C	TEC-TEH	TEC-TEH		00058	610VS	VS1-	0.83	1.56	0	31	P	2
		10/96	H	07H-VS3	07H-VS3		00312	580HP	VS1-	0.47	2.08	0	31	P	3
		10/96	H	07H-VS3	07H-VS3		00312	580HP	VS1+	0.20	0.63	0	<20	P	3
		10/96	H	07H-VS3	07H-VS3		00312	580HP	VS3-	0.30	0.71	0	<20	P	3



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	EXAM	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
152	103	10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS1-	0.17	0.45	0	<20	P 2
156	103	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	VS3+	0.98	0.72	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00087	610VS	BW2+	1.75	0.58	0	<20	P 2
35	104	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW1-	1.82	0.16	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW2-	2.11	0.16	0	<20	P 2
119	104	10/96	H	07H-VS3	07H-VS3		00319	580HP	09H-	0.10	0.95	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00319	580HP	09H+	0.85	1.15	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00319	580HP	BW1+	1.91	0.98	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00058	610VS	BW1+	2.12	0.33	0	<20	P 2
127	104	10/96	H	03H-04H	03H-04H	1	00481	580HP	03H+	32.00	0.00	0	SVI	P 2
		10/96	H	03H-04H	03H-04H	1	00481	580HP	03H+	32.00	0.19	0.2	SVI	P 3
		10/96	H	03H-04H	03H-04H	1	00481	580HP	03H+	32.00	0.00	125	SVI	P 3
147	104	10/96	H	07H-VS3	07H-VS3		00321	580HP	BW1+	2.10	0.82	0	<20	P 3
159	104	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2-	1.77	0.30	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+	1.93	0.33	0	<20	P 2
36	105	10/96	H	BW1-BW1	BW1-BW1		00019	580HP	BW1+	1.59	0.51	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW1+	1.85	0.34	0	<20	P 2
104	105	10/96	H	07H-VS3	07H-VS3		00136	580HP	BW1+	2.19	0.59	0	<20	P 3
110	105	10/96	H	07H-VS3	07H-VS3		00204	580HP	VS3+	0.78	0.51	0	<20	P 3
114	105	10/96	H	07H-VS3	07H-VS3		00206	580HP	BW1+	2.00	1.20	0	21	P 3
120	105	10/96	H	07H-VS3	07H-08H		00322	580HP	08H+	1.08	0.56	0	<20	P 3
122	105	10/96	H	07H-VS2	07H-VS2		00323	580HP	VS1+	0.82	0.79	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS1+	0.94	0.43	0	<20	P 2
126	105	10/96	H	07H-VS3	07H-VS3		00312	580HP	VS1-	0.87	0.78	0	<20	P 3
138	105	10/96	H	07H-VS3	07H-VS3		00323	580HP	VS3+	0.86	0.47	0	<20	P 3
140	105	10/96	H	07H-VS3	07H-VS3		00321	580HP	BW1+	2.03	0.69	0	<20	P 3
148	105	10/96	H	07H-VS3	07H-VS3		00321	580HP	BW1+	2.06	0.64	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS1-	0.41	0.49	0	<20	P 2
150	105	10/96	H	07H-VS3	07H-VS3		00312	580HP	BW1+	1.99	0.67	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00058	610VS	VS3-	0.83	0.49	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00312	580HP	VS3-	0.79	0.82	0	<20	P 3
156	105	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	BW1+	2.20	0.64	0	<20	P 2
158	105	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+	1.76	0.41	0	<20	P 2
35	106	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW2-	1.92	0.26	0	<20	P 2
37	106	10/96	C	TEC-TEH	TEC-TEH		00199	610VS	VS4-	0.77	0.65	0	<20	P 2
59	106	10/96	H	TSH-TSH	TSH-TSH		00007	600HP	TSH-	0.07	0.34	0.5	SCI	P 2
		10/96	H	TSH-TSH	TSH-TSH		00007	600HP	TSH-	0.07	0.59	0.2	SCI	P 4
		10/96	H	TSH-TSH	TSH-TSH		00007	600HP	TSH-	0.07	25.00	21	SCI	P 4
109	106	10/96	C	TEC-TEH	TEC-TEH		00024	610VS	VS2-	0.06	0.68	0	22	P 2
123	106	10/96	H	07H-VS2	07H-VS2		00321	580HP	VS2+	0.87	0.82	0	<20	P 3
127	106	10/96	H	07H-VS3	07H-VS3		00322	580HP	09H+	0.86	0.63	0	<20	P 3
143	106	10/96	H	07H-VS3	07H-VS3		00322	580HP	BW1+	1.79	0.62	0	<20	P 3
155	106	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	VS1-	0.83	0.55	0	<20	P 2
32	107	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	BW1+	1.78	0.14	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00198	610LF	VS4+	0.91	0.27	0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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DATE: 01/01/97

TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
40	107	10/96	H	TSH-TSH	TSH-TSH		00008	600HP	TSH- 0.18	0.70		0.2	SAI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00008	600HP	TSH- 0.18	1.90		0.2	SAI	P 3	
		10/96	H	TSH-TSH	TSH-TSH		00008	600HP	TSH- 0.18	8.00		27	SAI	P 3	
78	107	10/96	H	01H-01H	01H-01H	1	00487	580HP	01H- 1.35	0.00		0	SVI	P 2	
		10/96	H	01H-01H	01H-01H	1	00487	580HP	01H- 1.35	0.55		.2	SVI	P 3	
		10/96	H	01H-01H	01H-01H	1	00487	580HP	01H- 1.35	0.00		12	SVI	P 3	
110	107	10/96	H	07H-VS3	07H-08H		00201	580HP	08H+ 0.97	1.08		0	<20	P 3	
118	107	10/96	H	07H-VS3	07H-VS3		00323	580HP	08H- 0.06	0.73		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00323	580HP	08H+ 0.85	0.95		0	<20	P 3	
124	107	10/96	H	07H-VS2	07H-VS5		00324	580HP	09H- 0.89	0.79		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS5		00324	580HP	09H+ 0.90	0.53		0	<20	P 3	
		10/96	H	07H-VS2	07H-VS5		00324	580HP	VS1+ 0.64	0.62		0	<20	P 3	
126	107	10/96	C	TEC-TEH	TEC-TEH		00057	610VS	09H- 1.11	0.48		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00325	580HP	09H+ 0.82	0.57		0	<20	P 3	
130	107	10/96	H	07H-VS3	07H-09H		00463	580HP	08H+ 0.81	0.75		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	08H+ 0.92	0.65		0	<20	P 2	
		10/96	H	07H-VS3	07H-09H		00463	580HP	09H- 0.08	0.70		0	<20	P 3	
146	107	10/96	H	07H-VS3	07H-VS3		00323	580HP	BW1- 1.77	0.74		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS3- 0.84	1.23		0	27	P 2	
		10/96	H	07H-VS3	07H-VS3		00323	580HP	VS3- 0.74	1.58		0	26	P 3	
150	107	10/96	H	07H-VS3	07H-VS3		00325	580HP	BW1+ 1.87	0.68		0	<20	P 3	
156	107	10/96	C	TEC-TEH	TEC-TEH		00087	610VS	VS5+ 0.94	0.66		0	<20	P 2	
35	108	10/96	C	TEC-TEH	TEC-TEH		00201	610LF	VS4+ 0.71	0.29		0	<20	P 2	
61	108	10/96	C	TEC-TEH	TEC-TEH		00199	610VS	VS3+ 0.84	0.39		0	<20	P 2	
77	108	10/96	C	TEC-TEH	TEC-TEH		00199	610VS	07H+ 37.54	3.34		7	BLI	P 1	
83	108	10/96	C	TEC-TEH	TEC-TEH		00198	610LF	VS3- 0.86	0.31		0	<20	P 2	
111	108	10/96	H	07H-VS3	07H-VS3		00201	580HP	BW1+ 2.00	1.15		0	<20	P 3	
119	108	10/96	H	07H-VS3	07H-VS3		00322	580HP	09H+ 0.70	0.76		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	09H+ 0.95	0.77		0	<20	P 2	
133	108	10/96	H	07H-VS3	07H-VS3		00325	580HP	BW1+ 1.48	0.67		0	<20	P 3	
143	108	10/96	H	07H-VS3	BW1-VS3		00322	580HP	BW1- 1.76	0.52		0	<20	P 3	
157	108	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS1- 0.90	0.53		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	09C- 1.05	0.39		0	<20	P 2	
66	109	10/96	C	TEC-TEH	TEC-TEH		00201	610LF	VS5+ 0.87	0.33		0	<20	P 2	
120	109	10/96	H	07H-VS3	07H-VS3		00322	580HP	08H+ 0.89	0.88		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00055	610VS	08H+ 0.91	0.52		0	<20	P 2	
124	109	10/96	H	07H-VS2	07H-VS3		00324	580HP	08H+ 0.88	0.91		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00055	610VS	08H+ 0.94	0.52		0	<20	P 2	
		10/96	H	07H-VS2	07H-VS3		00324	580HP	BW1+ 1.90	0.49		0	<20	P 3	
128	109	10/96	H	07H-VS3	07H-VS3		00322	580HP	BW1- 2.10	0.72		0	<20	P 3	
142	109	10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS3+ 0.88	0.44		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00057	610VS	VS7+ 0.93	0.42		0	<20	P 2	
156	109	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS1- 0.75	0.58		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+ 1.80	0.27		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	04C- 1.08	0.41		0	<20	P 2	



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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 33 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
63	110/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00201	610LF	VS5-	0.60	0.40	0	<20	P 2	
111	110/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	VS3-	0.81	0.43	0	<20	P 2	
115	110/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	BW1-	1.99	0.49	0	<20	P 2	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00273	580HP	BW1-	1.65	0.90	0	<20	P 3	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	BW1+	1.91	0.60	0	<20	P 2	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00273	580HP	BW1+	2.11	1.55	0	<20	P 3	
119	110/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00322	580HP	BW1+	2.16	0.75	0	<20	P 3	
123	110/10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00324	580HP	VS2+	0.95	0.95	0	<20	P 3	
135	110/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00324	580HP	BW1+	1.99	0.57	0	<20	P 3	
137	110/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00325	580HP	BW1+	1.90	0.65	0	<20	P 3	
149	110/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00324	580HP	BW1+	1.84	0.52	0	<20	P 3	
155	110/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00087	610VS	BW2-	1.83	0.55	0	<20	P 2	
157	110/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00088	610VS	BW2+	1.86	0.47	0	<20	P 2	
108	111/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	08H+	0.94	0.60	0	<20	P 2	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	BW1+	2.18	0.28	0	<20	P 2	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	VS3-	0.79	0.48	0	<20	P 2	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	VS3+	0.29	0.53	0	<20	P 2	
112	111/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00025	610VS	VS6-	0.82	0.38	0	<20	P 2	
114	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00203	580HP	08H+	0.63	0.57	0	<20	P 3	
118	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	BW1+	1.98	0.53	0	<20	P 3	
122	111/10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00332	580HP	BW1-	1.89	0.39	0	<20	P 3	
	10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00332	580HP	BW1+	1.85	0.50	0	<20	P 3	
	10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00332	580HP	VS1-	0.90	0.57	0	<20	P 3	
130	111/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00055	610VS	VS7+	1.05	0.43	0	<20	P 2	
132	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	VS1-	0.97	0.76	0	<20	P 3	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	VS1+	0.31	0.53	0	<20	P 3	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	VS1+	0.96	0.52	0	<20	P 3	
134	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00331	580HP	BW1+	1.81	0.64	0	<20	P 3	
136	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	VS1-	0.89	0.62	0	<20	P 3	
138	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00331	580HP	BW1+	1.98	0.59	0	<20	P 3	
150	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00325	580HP	VS3+	0.74	0.69	0	<20	P 3	
154	111/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00087	610VS	VS7-	0.83	0.97	0	20	P 2	
156	111/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00481	580HP	BW1+	1.27	0.80	0	<20	P 3	
119	112/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00330	580HP	BW1+	1.86	1.11	0	<20	P 3	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00055	610VS	BW1+	1.89	0.58	0	<20	P 2	
123	112/10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00332	580HP	09H-	0.12	0.55	0	<20	P 3	
	10/96	H 07H-VS2 07H-VS2	H	07H-VS2	07H-VS2	00332	580HP	BW1+	2.04	0.79	0	<20	P 3	
143	112/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00334	580HP	BW1+	2.00	0.80	0.5	SVI	P 2	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00334	580HP	BW1+	2.00	0.65	0.6	SVI	P 3	
	10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00334	580HP	BW1+	2.00	117.0	77	SVI	P 3	
157	112/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00088	610VS	BW1+	2.01	0.52	0	<20	P 2	
90	113/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00027	610VS	VS3+	7.30	3.24	22	BLI	1	
108	113/10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00060	610VS	08H+	0.87	0.49	0	<20	P 2	
110	113/10/96	H 07H-VS3 07H-VS3	H	07H-VS3	07H-VS3	00201	580HP	VS2+	0.95	1.51	0	22	P 3	
	10/96	C TEC-TEH TEC-TEH	C	TEC-TEH	TEC-TEH	00059	610VS	VS2+	0.99	1.24	0	25	P 2	

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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 34 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
118	113	10/96	H	07H-VS3	08H-VS3	00334	580HP	BW1+	1.97	0.56	0	<20	P 3			
126	113	10/96	H	07H-VS3	07H-VS3	00463	580HP	BW1+	1.76	0.70	0	<20	P 3			
140	113	10/96	H	07H-VS3	08H-VS3	00332	580HP	BW1+	1.88	0.81	0	<20	P 3			
144	113	10/96	H	07H-VS3	07H-VS3	00334	580HP	BW1+	1.86	0.60	0	<20	P 3			
154	113	10/96	C	TEC-TEH	TEC-TEH	00087	610VS	VS7-	0.95	0.85	0	<20	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00087	610VS	08C+	0.86	0.61	0	<20	P 2			
105	114	10/96	H	08H-08H	07H-08H	5	00290	580HP	08H+	0.93	0.85	0.3	SVI	P 2		
		10/96	H	08H-08H	07H-08H	5	00290	580HP	08H+	0.93	1.92	0.4	SVI	P 3		
		10/96	H	08H-08H	07H-08H	5	00290	580HP	08H+	0.93	132.0	103	SVI	P 3		
		10/96	C	TEC-TEH	TEC-TEH	00021	610VS	08H+	0.94	1.30	95	36	P 1			
109	114	10/96	C	TEC-TEH	TEC-TEH	00021	610VS	08H+	0.95	0.59	0	<20	P 2			
111	114	10/96	H	07H-VS3	07H-VS3	00199	580HP	BW1+	1.86	0.50	0	<20	P 3			
115	114	10/96	H	07H-VS3	07H-VS3	00200	580HP	BW1+	1.87	1.33	0	23	P 3			
117	114	10/96	H	07H-VS3	07H-VS3	00200	580HP	09H+	0.00	1.16	0	21	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00054	610VS	09H+	0.29	0.64	0	<20	P 2			
119	114	10/96	H	07H-VS3	07H-VS3	00334	580HP	BW1+	1.83	0.89	0	<20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00054	610VS	BW1+	1.95	0.41	0	<20	P 2			
125	114	10/96	H	07H-VS2	07H-VS1	00333	580HP	09H-	0.33	0.57	0	<20	P 3			
		10/96	H	07H-VS2	07H-VS1	00333	580HP	BW1+	2.09	0.69	0	<20	P 3			
131	114	10/96	H	07H-VS3	07H-VS3	00334	580HP	BW1+	1.70	0.50	0	<20	P 3			
		10/96	H	07H-VS3	07H-VS3	00333	580HP	BW1+	1.74	0.56	0	<20	P 3			
155	114	10/96	C	TEC-TEH	TEC-TEH	00088	610VS	02C+	0.79	0.38	0	<20	P 2			
68	115	10/96	C	TEC-TEH	TEC-TEH	00202	610VS	BW2-	1.75	0.48	0	<20	P 2			
78	115	10/96	C	TEC-TEH	TEC-TEH	00203	610LF	02H+	29.92	1.73	6	BLI	1			
96	115	10/96	H	07H-VS3	07H-VS3	00136	580HP	BW1+	1.86	0.62	0	<20	P 3			
100	115	10/96	H	07H-VS3	07H-VS3	00136	580HP	BW1-	2.07	0.71	0	<20	P 3			
102	115	10/96	H	07H-VS3	07H-VS3	00133	580HP	08H+	0.95	0.43	0	<20	P 3			
108	115	10/96	H	07H-VS3	07H-VS2	00134	580HP	08H+	0.88	0.87	0	<20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00021	610VS	08H+	0.99	0.46	0	<20	P 2			
114	115	10/96	H	07H-VS3	07H-VS3	00199	580HP	BW1-	1.77	0.56	0	<20	P 3			
116	115	10/96	H	07H-VS3	09H-VS3	00200	580HP	09H-	1.11	1.65	0	27	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00021	610VS	09H-	0.94	1.08	0	24	P 2			
		10/96	H	07H-VS3	07H-BW1	00273	580HP	09H-	0.90	1.57	0	<20	P 3			
120	115	10/96	H	07H-VS3	07H-VS3	00348	580HP	08H+	0.85	0.51	0	<20	P 3			
		10/96	H	07H-VS3	07H-VS3	00348	580HP	BW1+	1.76	0.45	0	<20	P 3			
126	115	10/96	H	07H-VS3	07H-VS3	00349	580HP	BW1-	2.13	0.86	0	<20	P 3			
128	115	10/96	H	07H-VS3	07H-VS3	00334	580HP	09H-	0.12	0.52	0	<20	P 3			
132	115	10/96	H	07H-VS3	07H-VS3	00341	580HP	BW1+	1.75	0.64	0	<20	P 3			
		10/96	H	07H-VS3	07H-VS3	00334	580HP	BW1+	1.75	0.64	0	<20	P 3			
134	115	10/96	H	07H-VS3	07H-VS3	00342	580HP	VS1+	0.76	1.07	0	20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00081	610VS	VS1+	0.91	0.73	0	<20	P 2			
136	115	10/96	C	TEC-TEH	TEC-TEH	00053	610VS	VS1+	0.86	0.90	0	24	P 2			
		10/96	H	07H-VS3	07H-VS3	00334	580HP	VS1+	0.93	1.25	0	<20	P 3			
144	115	10/96	H	07H-VS3	07H-VS3	00334	580HP	VS1-	0.10	0.49	0	<20	P 3			
146	115	10/96	C	TEC-TEH	TEC-TEH	00081	610VS	VS1+	0.94	0.41	0	<20	P 2			



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CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+ 24.70	0.54		1.0	SVI	P 2	
		10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+ 24.70	0.85		.2	SVI	P 3	
		10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+ 24.70	28.00		48	SVI	P 3	
152	115	10/96	H	07H-VS3	07H-VS3	6		00490	580HP	BW1- 1.82	0.53		0	<20	P 3	
156	115	10/96	H	07H-VS3	07H-VS3	1		00481	580HP	BW1+ 1.11	0.44		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	1		00481	580HP	VS1+ 0.24	0.51		0	<20	P 3	
49	116	10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	0.20		0.7	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	1.16		0.3	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	49.00		71	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	0.15		0.5	MCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	0.65		0.4	MCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH			00008	600HP	TSH- 0.11	0.00		50	MCI	P 4	
107	116	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+ 1.02	0.41		0	<20	P 2	
109	116	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	BW1+ 2.00	0.82		0	<20	P 2	
113	116	10/96	H	07H-VS3	07H-VS3			00194	580HP	08H- 1.02	0.93		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00194	580HP	BW1+ 2.03	0.69		0	<20	P 3	
115	116	10/96	H	07H-VS3	07H-VS3			00193	580HP	08H+ 0.92	0.65		0	<20	P 3	
117	116	10/96	H	07H-VS3	07H-VS3			00194	580HP	09H- 1.20	1.62		0	24	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00054	610VS	09H- 0.96	1.47		0	30	P 2	
127	116	10/96	H	07H-VS3	07H-VS3			00352	580HP	BW1+ 1.58	0.78		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00053	610VS	BW1+ 1.77	0.38		0	<20	P 2	
143	116	10/96	H	07H-VS3	07H-VS3			00358	580HP	BW1+ 2.03	0.57		0	<20	P 3	
145	116	10/96	H	07H-VS3	07H-VS3			00464	580HP	BW1+ 1.94	0.61		0	<20	P 3	
147	116	10/96	H	07H-VS3	07H-VS3			00358	580HP	BW1+ 1.88	0.79		0	<20	P 3	
151	116	10/96	H	07H-VS3	07H-VS3	1		00481	580HP	BW1+ 1.95	0.35		0	<20	P 3	
		10/96	H	07H-VS3	VS1-VS1	1		00282	580HP	VS1- 0.16	0.82		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	1		00481	580HP	VS1- 0.07	0.73		0	<20	P 3	
50	117	10/96	H	TSH-TSH	TSH-TSH			00007	600HP	TSH- 0.25	0.26		0.2	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH			00007	600HP	TSH- 0.25	0.63		0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH			00007	600HP	TSH- 0.25	35.00		47	SCI	P 4	
60	117	10/96	H	07H-BW1	07H-BW1	1		00022	580HP	07H+ 24.32	0.21		0.2	SVI	P 2	
		10/96	H	07H-BW1	07H-BW1	1		00022	580HP	07H+ 24.32	0.36		0.1	SVI	P 3	
		10/96	H	07H-BW1	07H-BW1	1		00022	580HP	07H+ 24.32	137.0		44	SVI	P 3	
80	117	10/96	C	TEC-TEH	TEC-TEH			00202	610VS	VS5+ 2.27	1.41		10	BLI	P 1	
102	117	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H- 0.68	0.44		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+ 0.84	0.37		0	<20	P 2	
106	117	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+ 0.99	0.72		0	<20	P 2	
108	117	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	08H+ 0.96	0.42		0	<20	P 2	
112	117	10/96	H	07H-VS3	07H-VS3			00194	580HP	BW1+ 2.00	0.68		0	<20	P 3	
114	117	10/96	H	07H-VS3	07H-VS3			00189	580HP	BW1+ 1.76	1.90		0	27	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00022	610VS	BW1+ 2.00	0.43		0	<20	P 2	
118	117	10/96	H	07H-VS3	07H-VS3			00358	580HP	BW1+ 2.08	0.42		0	<20	P 3	
120	117	10/96	H	07H-VS3	07H-VS3			00352	580HP	BW1- 2.13	1.09		0	<20	P 3	
132	117	10/96	H	07H-VS3	07H-VS3			00358	580HP	BW1- 1.86	0.67		0	<20	P 3	
140	117	10/96	H	07H-VS3	07H-VS3			00358	580HP	BW1+ 2.04	0.64		0	<20	P 3	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS3	07H-VS3		00358	580HP	VS1+	0.68	0.70		0	<20	P 3
146	117	10/96	H	07H-VS3	07H-VS3		00463	580HP	BW1+	1.94	0.99		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00054	610VS	BW1+	1.95	0.24		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00054	610VS	VS1-	0.78	0.44		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00463	580HP	VS1-	0.65	0.51		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00463	580HP	VS1+	0.40	0.73		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00054	610VS	VS1+	0.78	0.59		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00463	580HP	VS3-	0.91	1.99		0	27	P 3
		10/96	C	TEC-TEH	TEC-TEH		00054	610VS	VS3-	0.73	1.30		0	28	P 2
148	117	10/96	H	07H-VS3	07H-VS3		00358	580HP	BW1+	1.86	0.61		0	<20	P 3
150	117	10/96	H	07H-VS3	07H-VS3		00359	580HP	BW1-	2.02	0.61		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00359	580HP	BW1+	1.86	0.85		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00053	610VS	BW1+	2.16	0.25		0	<20	P 2
117	118	10/96	H	07H-VS3	07H-VS3		00273	580HP	09H-	1.00	0.00		0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3		00273	580HP	09H-	1.00	0.70		1.7	SAI	P 3
		10/96	H	07H-VS3	07H-VS3		00273	580HP	09H-	1.00	0.00		32	SAI	P 3
123	118	10/96	H	07H-VS2	07H-VS2		00358	580HP	VS1+	1.02	0.71		0	<20	P 3
143	118	10/96	H	07H-VS3	07H-VS3		00464	580HP	BW1+	3.87	0.38		1.0	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00464	580HP	BW1+	3.87	0.55		1.0	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00464	580HP	BW1+	3.87	9.00		33	SVI	P 3
151	118	10/96	H	07H-VS3	07H-VS3	1	00481	580HP	BW1+	2.07	0.43		0	<20	P 3
14	119	10/96	C	TEC-TEH	TEC-TEC		00111	610VS						OBS	
70	119	10/96	C	TEC-TEH	TEC-TEH		00203	610LF	VS3-	0.89	0.64		0	<20	P 2
		10/96	H	VS3-VS3	VS3-VS3		00019	580HP	VS3-	0.75	0.66		0	<20	P 3
76	119	10/96	C	TEC-TEH	TEC-TEH		00204	610VS	VS3-	0.85	0.64		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00204	610VS	VS5-	0.83	1.18		0	26	P 2
		10/96	C	TEC-TEH	TEC-TEH		00204	610VS	VS5+	0.96	0.42		0	<20	P 2
88	119	10/96	C	TEC-TEH	TEC-TEH		00204	610VS	BW1+	2.07	0.27		0	<20	P 2
92	119	10/96	C	TEC-TEH	TEC-TEH		00021	610VS	08H+	0.91	0.64		0	<20	P 2
102	119	10/96	C	TEC-TEH	TEC-TEH		00022	610VS	BW1+	2.00	0.38		0	<20	P 2
108	119	10/96	C	TEC-TEH	TEC-TEH		00021	610VS	08H+	0.92	1.00		0	22	P 2
110	119	10/96	H	07H-VS3	07H-VS3		00193	580HP	08H+	1.04	0.61		0	<20	P 3
112	119	10/96	H	07H-VS3	07H-VS3		00194	580HP	VS2-	1.28	0.53		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	VS2-	0.83	0.64		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	TSC+	1.68	0.88		140	<20	1
114	119	10/96	C	TEC-TEH	TEC-TEH		00022	610VS	VS3+	0.91	0.39		0	<20	P 2
118	119	10/96	H	07H-VS3	07H-VS3		00371	580HP	BW1-	1.89	0.58		0	<20	P 3
122	119	10/96	H	07H-VS2	07H-VS2		00362	580HP	VS1+	1.00	0.49		0	<20	P 3
142	119	10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS1+	0.92	0.49		0	<20	P 2
144	119	10/96	H	07H-VS3	07H-VS3		00362	580HP	09H-	0.12	0.63		0	<20	P 3
146	119	10/96	H	07H-VS3	07H-VS3		00362	580HP	BW1+	1.89	0.87		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00053	610VS	BW1+	2.25	0.22		0	<20	P 2
150	119	10/96	H	07H-VS3	07H-VS3		00362	580HP	BW1+	1.92	0.74		0	<20	P 3
154	119	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	07C-	0.24	0.82		0	21	P 2
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	06C-	0.18	0.64		0	<20	P 2

4

100



4

100

2

1

3

3

## CUMULATIVE REPORT

'10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 37 OF 66  
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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	TEC-TEH	TEC-TEH			00088	610VS	05C+	0.77	0.38		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00088	610VS	05C-	0.97	1.87		0	34	P 2
		10/96	C	TEC-TEH	TEC-TEH			00088	610VS	03C-	0.96	1.07		0	25	P 2
99	120	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	BW1+	1.87	0.13		0	<20	P 2
101	120	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	VS2+	1.00	0.72		0	<20	P 2
103	120	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+	1.01	0.62		0	<20	P 2
107	120	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+	1.02	0.68		0	<20	P 2
113	120	10/96	H	07H-VS3	07H-VS3			00194	580HP	VS2-	0.98	0.48		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00194	580HP	VS2+	0.82	0.35		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00021	610VS	VS2+	0.90	0.59		0	<20	P 2
117	120	10/96	H	07H-VS3	07H-VS3			00190	580HP	BW1-	1.99	0.69		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00053	610VS	BW1+	1.89	0.32		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00190	580HP	BW1+	1.97	1.28		0	24	P 3
123	120	10/96	H	07H-VS2	07H-VS2			00362	580HP	09H-	0.07	0.92		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00054	610VS	09H-	0.03	0.45		0	<20	P 2
		10/96	H	07H-VS2	07H-VS2			00362	580HP	BW1+	1.81	0.78		0	<20	P 3
		10/96	H	07H-VS2	07H-VS2			00362	580HP	VS1+	0.87	0.57		0	<20	P 3
125	120	10/96	C	TEC-TEH	TEC-TEH			00053	610VS	BW1+	1.75	0.24		0	<20	P 2
		10/96	H	07H-VS2	07H-VS3			00372	580HP	BW1+	1.84	0.90		0	<20	P 3
141	120	10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+	29.86	0.00		0	SVI	P 2
		10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+	29.86	0.40		.2	SVI	P 3
		10/96	C	07C-08C	07C-08C	1		00243	580HP	07C+	29.86	0.00		25	SVI	P 3
151	120	10/96	C	TEC-TEH	TEC-TEH			00088	610VS	04C-	0.15	1.52		0	31	P 2
		10/96	C	TEC-TEH	TEC-TEH			00088	610VS	04C-	1.02	0.73		0	20	P 2
153	120	10/96	C	TEC-TEH	TEC-TEH			00088	610VS	03C-	0.96	0.41		0	<20	P 2
40	121	10/96	H	TEH-TSC	TEH-TSC			00011	610VS						OBS	
80	121	10/96	H	VS3-VS3	VS3-VS3			00278	580HP	VS3-	1.27	1.47		0	21	P 3
		10/96	C	TEC-TEH	TEC-TEH			00204	610VS	VS3-	0.77	1.00		0	23	P 2
		10/96	C	TEC-TEH	TEC-TEH			00204	610VS	VS5+	0.87	1.42		0	29	P 2
88	121	10/96	C	TEC-TEH	TEC-TEH			00204	610VS	BW1+	2.03	0.30		0	<20	P 2
96	121	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	08H+	1.03	0.80		120	<20	P 2
98	121	10/96	H	08H-08H	07H-08H	5		00290	580HP	08H+	1.00	0.45		0.3	SVI	P 2
		10/96	H	08H-08H	07H-08H	5		00290	580HP	08H+	1.00	0.34		0.3	SVI	P 3
		10/96	H	08H-08H	07H-08H	5		00290	580HP	08H+	1.00	177.0		67	SVI	P 3
102	121	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+	0.93	0.63		0	<20	P 2
104	121	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	07H+	0.78	0.62		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00021	610VS	08H+	1.07	0.75		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00021	610VS	VS2-	0.83	0.80		0	<20	P 2
106	121	10/96	C	TEC-TEH	TEC-TEH			00022	610VS	08H+	0.90	0.47		0	<20	P 2
108	121	10/96	C	TEC-TEH	TEC-TEH			00021	610VS	08H+	0.91	0.87		0	20	P 2
112	121	10/96	H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.51			0	SVI	P 2
		10/96	H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.51	0.79		0.9	SVI	P 3
		10/96	H	07H-VS3	07H-VS3			00194	580HP	BW1+	1.51			82	SVI	P 3
114	121	10/96	H	07H-VS3	07H-VS3			00189	580HP	BW1+	1.76	1.24		0	21	P 3
		10/96	C	TEC-TEH	TEC-TEH			00022	610VS	BW1+	1.97	0.38		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
130	121	10/96	H	07H-VS3	07H-VS3		00374	580HP	VS1+	0.31	1.36	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00054	610VS	VS1+	0.64	0.74	0	<20	P 2	
144	121	10/96	H	07H-VS3	07H-VS3		00373	580HP	BW1+	2.05	0.46	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS1+	0.95	0.44	0	<20	P 2	
152	121	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS1-	0.77	0.39	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS3-	0.74	0.26	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS5-	0.83	1.07	0	25	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+	1.75	0.48	0	<20	P 2	
81	122	10/96	C	TEC-TEH	TEC-TEH		00204	610VS	VS3+	0.96	1.09	0	24	P 2	
95	122	10/96	C	TEC-TEH	TEC-TEH		00022	610VS	07H+	0.97	0.27	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00022	610VS	08H-	0.03	0.32	0	<20	P 2	
97	122	10/96	C	TEC-TEH	TEC-TEH		00021	610VS	08H+	1.00	0.43	0	<20	P 2	
101	122	10/96	C	TEC-TEH	TEC-TEH		00021	610VS	08H+	0.91	0.60	0	<20	P 2	
107	122	10/96	H	07H-VS3	07H-08H	4	00275	580HP	08H+	0.81	0.91	0	<20	P 3	
		10/96	H	07H-VS3	08H-VS3	4	00180	580HP	08H+	0.97	0.68	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00022	610VS	08H+	1.00	0.35	0	<20	P 2	
115	122	10/96	H	07H-VS3	07H-VS3		00189	580HP	BW1+	1.77	1.59	0	26	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00022	610VS	BW1+	1.78	0.40	0	<20	P 2	
117	122	10/96	H	07H-VS3	07H-VS3		00190	580HP	09H-	1.91	0.45	1.6	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00190	580HP	09H-	1.91	0.54	2.7	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00190	580HP	09H-	1.91	10.00	18	SAI	P 3	
123	122	10/96	H	07H-VS2	07H-VS2		00375	580HP	BW1+	1.96	0.56	0	<20	P 3	
133	122	10/96	C	02C-03C	02C-03C	1	00243	580HP	02C+	7.46	0.56	.3	SVI	P 2	
		10/96	C	02C-03C	02C-03C	1	00243	580HP	02C+	7.46	0.72	.2	SVI	P 3	
		10/96	C	02C-03C	02C-03C	1	00243	580HP	02C+	7.46	34.00	23	SVI	P 3	
135	122	10/96	H	07H-VS3	07H-VS3		00373	580HP	BW1+	1.23	0.66	0	<20	P 3	
137	122	10/96	C	TEC-TEH	TEC-TEH		00054	610VS	VS1+	0.92	0.41	0	<20	P 2	
145	122	10/96	H	07H-VS3	07H-VS3		00374	580HP	BW1+	1.71	0.66	0	<20	P 3	
147	122	10/96	H	07H-VS3	07H-VS3		00376	580HP	BW1+	1.85	0.48	0	<20	P 3	
149	122	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	BW2+	1.97	0.31	0	<20	P 2	
151	122	10/96	C	TEC-TEH	TEC-TEH		00097	610VS	03C+	0.78	0.72	0	<20	P 2	
58	123	10/96	C	TEC-TEH	TEC-TEH		00005	610VS	VS3+	1.07	0.47	0	<20	P 2	
102	123	10/96	C	TEC-TEH	TEC-TEH		00022	610VS	08H+	1.05	0.63	0	<20	P 2	
108	123	10/96	H	07H-VS3	07H-VS3	4	00180	580HP	08H+	0.90	0.63	0	<20	P 3	
112	123	10/96	H	07H-VS3	07H-VS3		00194	580HP	08H+	0.82	0.67	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00021	610VS	08H+	0.87	0.70	0	<20	P 2	
122	123	10/96	H	07H-VS2	07H-VS2		00378	580HP	BW1-	2.38	0.37	0	<20	P 3	
130	123	10/96	H	07H-VS3	07H-VS3		00378	580HP	BW1+	2.12	0.50	0	<20	P 3	
132	123	10/96	H	07H-VS3	07H-VS3		00376	580HP	BW1-	1.40	0.66	0	<20	P 3	
136	123	10/96	C	TEC-TEH	TEC-TEH		00053	610VS	VS1+	0.83	0.38	0	<20	P 2	
144	123	10/96	H	07H-VS3	08H-VS3		00373	580HP	BW1+	1.84	0.78	0	<20	P 3	
152	123	10/96	C	TEC-TEH	TEC-TEH		00088	610VS	VS1+	0.97	0.45	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00088	610VS	03C+	0.84	0.27	0	<20	P 2	
15	124	10/96	C	TEC-TEH	TEC-TEH		00111	610VS	07H-	0.03	0.34	0	<20	P 2	
89	124	10/96	C	TEC-TEH	TEC-TEH		00206	610VS	08H+	0.97	0.35	0	<20	P 2	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
99	124	10/96	C	TEC-TEH	TEC-TEH	00022	610VS	08H+	1.05		0.51		0	<20	P 2	
101	124	10/96	C	TEC-TEH	TEC-TEH	00021	610VS	BW1+	1.82		1.40		0	<20	P 2	
103	124	10/96	C	TEC-TEH	TEC-TEH	00022	610VS	08H+	0.96		0.57		0	<20	P 2	
105	124	10/96	H	07H-VS3	07H-VS3	00133	580HP	08H+	0.80		0.71		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00021	610VS	08H+	0.99		0.57		0	<20	P 2	
109	124	10/96	C	TEC-TEH	TEC-TEH	00021	610VS	VS2+	0.90		1.12		0	24	P 2	
		10/96	H	07H-VS3	07H-VS3	00134	580HP	VS2+	0.98		1.39		0	22	P 3	
115	124	10/96	H	07H-VS3	07H-VS3	00189	580HP	BW1+	1.85		0.92		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00022	610VS	BW1+	2.05		0.28		0	<20	P 2	
117	124	10/96	H	07H-VS3	07H-VS3	00190	580HP	BW1-	1.92		0.92		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00190	580HP	BW1+	1.95		1.06		0	20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00053	610VS	BW1+	1.98		0.29		0	<20	P 2	
121	124	10/96	H	TSH-TSH	TSH-01H	00497	580HP	TSH+	10.85		2.16		.5	SVI	P 2	
		10/96	H	TSH-TSH	TSH-01H	00497	580HP	TSH+	10.85		0.51		.6	SVI	P 3	
		10/96	H	TSH-TSH	TSH-01H	00497	580HP	TSH+	10.85		18.00		2	SVI	P 3	
127	124	10/96	C	TEC-TEH	TEC-TEH	00053	610VS	BW1+	1.94		0.32		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00373	580HP	BW1+	2.00		1.04		0	<20	P 3	
129	124	10/96	C	TEC-TEH	TEC-TEH	00053	610VS	VS1+	0.91		0.36		0	<20	P 2	
133	124	10/96	C	TEC-TEH	TEC-TEH	00053	610VS	VS1-	0.68		0.42		0	<20	P 2	
135	124	10/96	H	07H-VS3	08H-VS3	00373	580HP	BW1-	1.75		0.55		0	<20	P 3	
		10/96	H	07H-VS3	08H-VS3	00373	580HP	BW1+	1.80		0.65		0	<20	P 3	
143	124	10/96	H	07H-VS3	07H-VS3	00373	580HP	BW1+	1.84		0.41		0	<20	P 3	
151	124	10/96	C	TEC-TEH	TEC-TEH	00088	610VS	04C-	0.17		0.75		0	<20	P 2	
82	125	10/96	C	TEC-TEH	TEC-TSH	00157	610VS	VS3-	0.71		0.41		0	<20	P 2	
84	125	10/96	C	TEC-TEH	TEC-TEH	00156	610LF	VS5-	0.77		0.60		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00156	610LF	VS5+	0.89		0.66		0	<20	P 2	
88	125	10/96	C	TEC-TEH	TEC-TEH	00180	610LF	BW1+	2.02		0.27		0	<20	P 2	
92	125	10/96	C	TEC-TEH	TEC-TEH	00016	610VS	08H+	0.91		0.53		0	<20	P 2	
94	125	10/96	C	TEC-TEH	TEC-TEH	00017	610VS	08H+	0.84		0.40		0	<20	P 2	
96	125	10/96	C	TEC-TEH	TEC-TEH	00016	610VS	08H+	1.00		0.42		0	<20	P 2	
100	125	10/96	C	TEC-TEH	TEC-TEH	00017	610VS	BW1+	1.97		0.71		0	<20	P 2	
102	125	10/96	C	TEC-TEH	TEC-TEH	00016	610VS	08H+	0.97		0.48		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00016	610VS	BW1+	1.82		0.41		0	<20	P 2	
104	125	10/96	C	TEC-TEH	TEC-TEH	00017	610VS	07H+	1.06		0.43		0	<20	P 2	
112	125	10/96	H	07H-VS3	07H-VS3	00194	580HP	VS2-	0.81		0.71		0	<20	P 3	
114	125	10/96	H	07H-VS3	07H-VS3	00189	580HP	BW1+	1.10		0.84		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00016	610VS	BW1+	2.00		1.13		0	26	P 2	
		10/96	H	07H-VS3	07H-VS3	00189	580HP	BW1+	2.09		1.42		.2	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3	00189	580HP	BW1+	2.09		1.26		.2	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	00189	580HP	BW1+	2.09		47.00		63	SVI	P 3	
116	125	10/96	C	TEC-TEH	TEC-TEH	00016	610VS	VS2+	0.86		0.49		0	<20	P 2	
126	125	10/96	H	07H-VS3	08H-VS3	00385	580HP	09H+	0.70		0.60		0	<20	P 3	
140	125	10/96	H	07H-VS3	07H-VS3	00384	580HP	BW1+	1.57		0.95		0	<20	P 3	
144	125	10/96	H	07H-VS3	07H-VS3	00373	580HP	BW1+	1.85		0.68		0	<20	P 3	
148	125	10/96	H	07H-VS3	07H-VS3	00378	580HP	BW1-	2.48		0.32		0	<20	P 3	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STREAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
79	126	10/96	C	TEC-TEH	TEC-TEH		00157	610VS	VS3-	0.80	0.31	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00157	610VS	VS3+	0.95	0.48	0	<20	P 2	
87	126	10/96	C	TEC-TEH	TEC-TSH		00157	610VS	VS2-	0.75	0.36	0	<20	P 2	
95	126	10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.69	1.00	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	08H+	0.97	0.69	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.27	0.78	0	<20	P 3	
97	126	10/96	C	TEC-TEH	TEC-TEH		00017	610VS	08H-	1.03	1.02	0	27	P 2	
		10/96	H	07H-VS3	07H-VS3		00134	580HP	08H+	0.98	1.16	0	21	P 3	
99	126	10/96	H	07H-VS3	07H-VS3		00133	580HP	07H+	0.95	0.61	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	07H+	0.97	0.37	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	08H-	0.95	0.53	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	08H-	0.80	0.57	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	08H-	0.10	0.91	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	08H-	0.06	0.88	0	21	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.66	1.04	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	08H+	0.86	0.50	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.78	0.46	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	4.00	0.86	0.9	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	4.00	0.64	0.9	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	4.00	50.00	61	SVI	P 3	
101	126	10/96	C	TEC-TEH	TEC-TEH		00017	610VS	08H-	0.94	0.94	117	23	P 2	
		10/96	H	07H-VS3	07H-VS3		00134	580HP	08H+	0.94	1.08	0	20	P 3	
		10/96	H	07H-VS3	07H-VS3		00134	580HP	BW1+	1.94	0.86	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00017	610VS	03C+	10.64	1.13	11	BLI	1	
		10/96	C	01C-02C	01C-02C	1	00243	580HP	01C+	24.08	0.00	0	SVI	P 2	
		10/96	C	01C-02C	01C-02C	1	00243	580HP	01C+	24.08	0.50	.3	SVI	P 3	
		10/96	C	01C-02C	01C-02C	1	00243	580HP	01C+	24.08	0.00	14	SVI	P 3	
103	126	10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.48	1.30	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	BW1+	1.97	0.29	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	01C+	18.28	8.50	14	BLI	P 1	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	01C+	15.66	6.81	17	BLI	P 1	
107	126	10/96	H	07H-VS3	07H-VS3		00133	580HP	VS2+	0.85	0.69	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	VS2+	0.93	0.44	0	<20	P 2	
111	126	10/96	H	07H-VS3	07H-VS3		00137	580HP	BW1-	1.79	0.86	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	VS2-	0.82	0.32	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	VS3+	1.02	0.46	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00137	580HP	VS3+	1.20	0.62	0	<20	P 3	
113	126	10/96	H	07H-VS3	07H-VS3		00138	580HP	08H+	0.96	0.28	0	<20	P 3	
117	126	10/96	H	07H-VS3	07H-VS3		00138	580HP	VS2-	0.82	0.63	0	<20	P 3	
123	126	10/96	H	07H-VS2	07H-VS3		00227	580HP	BW1+	1.90	0.81	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	1.97	0.27	0	<20	P 2	
125	126	10/96	H	07H-VS2	07H-VS3		00228	580HP	BW1+	1.79	0.66	0	<20	P 3	
133	126	10/96	H	07H-VS3	07H-VS3		00228	580HP	BW1+	1.75	0.53	0	<20	P 3	
66	127	10/96	C	TEC-TEH	TEC-TSH		00157	610VS	08H-	0.99	0.25	0	<20	P 2	
84	127	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS3+	1.01	0.78	0	<20	P 2	



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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
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ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	t	CH	CHNG
90	127	10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.77	0.73	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.94	0.38	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.33	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1-	1.46	0.91	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.18	0.84	0	<20	P 3	
92	127	10/96	H	07H-VS3	07H-VS3		00134	580HP	BW1-	0.80	0.59	0	<20	P 3	
94	127	10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.94	0.63	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.78	0.66	0	<20	P 3	
98	127	10/96	H	07H-VS3	07H-VS3		00133	580HP	07H+	0.80	0.40	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	07H+	0.82	0.32	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	08H-	0.08	0.81	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.06	0.38	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.85	0.53	0	<20	P 3	
100	127	10/96	H	07H-VS3	07H-VS3		00134	580HP	08H+	0.82	0.63	0	<20	P 3	
102	127	10/96	H	07H-VS3	07H-VS3		00133	580HP	08H-	0.38	0.44	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.73	0.37	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00133	580HP	BW1+	1.62	1.42	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.03	0.42	0	<20	P 2	
104	127	10/96	H	07H-VS3	07H-VS3		00134	580HP	BW1-	2.00	0.81	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00134	580HP	BW1+	1.76	1.29	0	21	P 3	
106	127	10/96	H	07H-VS3	07H-VS3		00133	580HP	08H+	0.83	0.65	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.90	0.39	0	<20	P 2	
108	127	10/96	H	07H-VS3	07H-VS3		00134	580HP	08H+	0.92	0.49	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00134	580HP	VS3+	0.89	0.60	0	<20	P 3	
110	127	10/96	H	07H-VS3	07H-VS3		00137	580HP	VS2-	0.91	0.54	0	<20	P 3	
112	127	10/96	H	07H-VS3	07H-VS3		00138	580HP	08H+	36.73	0.21	8.8	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3		00138	580HP	08H+	36.73	0.57	8.6	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3		00138	580HP	08H+	36.73	0.00	44	SAI	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	VS2-	0.92	0.57	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS2-	0.81	0.56	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00138	580HP	VS2-	0.76	0.91	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00016	610VS	05C+	13.03	4.27	19	BLI	P 1	
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	05C+	12.61	6.71	16	BLI	P 1	
116	127	10/96	H	07H-VS3	07H-VS3		00138	580HP	09H+	1.15	0.70	0	<20	P 3	
118	127	10/96	H	07H-VS3	08H-VS3		00225	580HP	BW1+	1.78	0.30	0	<20	P 3	
120	127	10/96	H	07H-VS3	07H-VS3		00225	580HP	BW1+	1.79	1.08	0	<20	P 3	
130	127	10/96	H	07H-VS3	07H-VS3		00226	580HP	BW1+	1.80	0.63	0	<20	P 3	
134	127	10/96	H	07H-VS3	07H-VS3		00228	580HP	BW1+	1.96	1.14	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.13	0.28	0	<20	P 2	
138	127	10/96	H	07H-VS3	07H-VS3		00226	580HP	BW1+	1.80	0.48	0	<20	P 3	
142	127	10/96	H	07H-VS3	07H-VS3		00228	580HP	BW1+	1.36	0.67	0	<20	P 3	
144	127	10/96	H	07H-VS3	07H-VS3		00225	580HP	BW1+	1.75	0.62	0	<20	P 3	
146	127	10/96	H	07H-VS3	07H-VS3		00226	580HP	BW1+	1.84	0.46	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00089	610VS	VS5-	0.77	0.64	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00089	610VS	BW2+	1.86	0.43	0	<20	P 2	

ROCKRIDGE TECHNOLOGIES



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 42 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
79	128	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	VS3+	1.01	0.87		0	21	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	VS5-	0.67	1.17		0	26	P 2
87	128	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	08H+	1.00	0.27		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	BW1-	1.75	0.20		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	VS2-	0.80	0.56		0	<20	P 2
89	128	10/96	C	TEC-TEH	TEC-TEH			00156	610LF	08H-	0.91	0.51		0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1	5		00496	580HP	BW1-	1.87	0.97		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00156	610LF	BW1-	1.75	0.28		0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1	5		00496	580HP	BW1+	0.96	0.94		0	<20	P 3
91	128	10/96	H	07H-VS3	07H-VS3			00126	580HP	08H+	0.72	0.61		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	0.93	0.41		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00126	580HP	BW1-	0.34	1.21		0	<20	P 3
93	128	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1-	2.06	0.48		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00127	580HP	BW1-	2.05	1.39		0	22	P 3
		10/96	H	07H-VS3	07H-VS3			00127	580HP	BW1+	2.01	0.82		0	<20	P 3
95	128	10/96	H	07H-VS3	07H-VS3			00126	580HP	08H+	0.89	1.19		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00014	610VS	08H+	0.93	0.65		0	<20	P 2
101	128	10/96	H	07H-VS3	07H-VS3			00134	580HP	08H-	0.04	0.87		0	<20	P 3
105	128	10/96	H	07H-VS3	07H-VS3			00134	580HP	07H+	0.76	0.52		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1-	2.00	0.26		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00134	580HP	BW1-	1.96	1.12		0	<20	P 3
109	128	10/96	H	07H-VS3	07H-VS3			00134	580HP	08H-	0.10	0.52		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00134	580HP	08H+	0.95	0.89		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1+	1.84	0.49		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00134	580HP	BW1+	1.85	1.56		0	26	P 3
111	128	10/96	H	07H-VS3	07H-VS3			00137	580HP	VS2-	0.98	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00014	610VS	VS2-	0.86	0.47		0	<20	P 2
113	128	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	VS2-	0.79	0.45		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00138	580HP	VS2-	0.77	1.41		0	21	P 3
117	128	10/96	H	07H-VS3	07H-VS3			00138	580HP	08H+	0.90	0.37		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00138	580HP	09H+	0.88	0.72		0	<20	P 3
123	128	10/96	H	07H-VS2	07H-VS2			00225	580HP	BW1+	1.90	1.60		0	20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00018	610VS	BW1+	1.99	0.57		0	<20	P 2
133	128	10/96	H	07H-VS3	08H-VS3			00228	580HP	BW1+	2.04	0.60		0	<20	P 3
70	129	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	VS3+	0.65	0.29		0	<20	P 2
74	129	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	VS3-	0.90	0.36		0	<20	P 2
104	129	10/96	H	07H-VS3	07H-VS3	4		00181	580HP	08H+	0.86	0.79		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	4		00181	580HP	BW1+	1.75	1.03		0	<20	P 3
116	129	10/96	H	07H-VS3	07H-VS3			00138	580HP	08H-	0.03	0.65		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00138	580HP	BW1-	1.75	0.35		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00138	580HP	BW1+	1.78	0.52		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00138	580HP	VS3+	0.69	0.32		0	<20	P 3
118	129	10/96	H	07H-VS3	07H-VS3			00229	580HP	BW1-	2.15	0.63		0	<20	P 3
122	129	10/96	C	TEC-TEH	TEC-TEH			00019	610VS	BW1+	2.18	0.42		0	<20	P 2
		10/96	H	07H-VS2	07H-VS3			00229	580HP	BW1+	2.20	0.98		0	<20	P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 43 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
126	129	10/96	H	07H-VS3	08H-VS3		00227	580HP	BW1-	1.66	0.86	0	<20	P 3
134	129	10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.06	0.26	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00227	580HP	BW1+	2.08	1.10	0	<20	P 3
138	129	10/96	H	07H-VS3	07H-VS3		00227	580HP	09H-	0.02	0.53	0	<20	P 3
144	129	10/96	H	07H-VS3	07H-VS3		00226	580HP	BW1+	1.96	0.79	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00228	580HP	BW1+	2.08	0.61	0	<20	P 3
69	130	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	08H+	0.89	0.64	0	<20	P 2
75	130	10/96	C	TEC-TEH	TEC-TEH		00157	610VS	VS3-	0.93	0.44	0	<20	P 2
81	130	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS3-	0.76	1.38	0	27	P 2
		10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS3+	1.15	0.40	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS5-	0.76	0.56	0	<20	P 2
85	130	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	08H-	0.84	0.81	0	<20	P 2
89	130	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	08H+	0.98	0.94	0	20	P 2
		10/96	H	08H-08H	08H-08H		00278	580HP	08H+	1.10	0.98	0	<20	P 3
91	130	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.15	0.33	0	<20	P 2
93	130	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H+	0.90	0.75	0	<20	P 2
97	130	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H+	0.96	0.60	0	<20	P 2
105	130	10/96	H	07H-VS3	07H-VS3	4	00182	580HP	VS2+	0.87	0.56	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS2+	0.92	0.55	131	<20	P 2
113	130	10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	39.77	0.48	0.8	MAX	P 2
		10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	39.77	0.53	1.0	MAX	P 3
		10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	39.77	77.00	35	MAX	P 3
		10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	42.36	0.39	1.1	MAX	P 2
		10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	42.36	0.74	3.3	MAX	P 3
		10/96	H	07H-VS3	07H-VS3		00137	580HP	08H+	42.36	106.0	41	MAX	P 3
		10/96	H	07H-VS3	07H-VS3		00137	580HP	BW1+	1.62	0.86	0	<20	P 3
115	130	10/96	H	07H-VS3	07H-VS3		00138	580HP	BW1+	1.88	1.30	0	<20	P 3
117	130	10/96	H	07H-VS3	07H-VS3		00137	580HP	BW1+	1.35	0.45	0	<20	P 3
127	130	10/96	H	07H-VS3	07H-VS3		00229	580HP	BW1+	1.93	0.93	0	<20	P 3
135	130	10/96	H	07H-VS3	07H-VS3		00229	580HP	BW1-	2.25	0.60	0	<20	P 3
141	130	10/96	H	07H-VS3	07H-VS3		00234	580HP	BW1+	2.15	0.54	0	<20	P 3
78	131	10/96	C	TEC-TEH	TEC-TEH		00157	610VS	BW1-	1.86	0.21	0	<20	P 2
80	131	10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS3+	1.15	0.83	0	<20	P 2
84	131	10/96	H	VS3-VS3	VS3-VS3		00278	580HP	VS3-	0.71	3.00	0	36	P 3
		10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS3-	0.60	1.85	0	32	P 2
		10/96	H	VS3-VS3	VS3-VS3		00278	580HP	VS3-	0.25	1.14	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00156	610LF	VS5-	0.74	0.89	0	20	P 2
86	131	10/96	C	TEC-TEH	TEC-TEH		00157	610VS	08H-	0.95	0.47	0	<20	P 2
94	131	10/96	H	07H-VS3	07H-VS3		00127	580HP	VS2+	0.68	0.52	0	<20	P 3
98	131	10/96	H	07H-VS3	07H-VS3		00127	580HP	BW1+	1.72	1.68	0	24	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.00	0.52	0	<20	P 2
110	131	10/96	H	07H-VS3	07H-VS3		00138	580HP	08H+	0.00	0.43	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00138	580HP	VS2-	0.75	1.63	0	23	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	VS2-	0.67	0.82	0	20	P 2
		10/96	H	07H-VS3	07H-VS3		00138	580HP	VS2+	0.89	1.62	0	23	P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 44 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	VS2+	0.96	0.72		0	<20	P 2
118	131	10/96	H	07H-VS3	07H-VS3			00229	580HP	BW1+	1.78	0.73		0	<20	P 3
130	131	10/96	H	07H-VS3	09H-VS3			00234	580HP	BW1+	1.77	0.89		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00019	610VS	BW1+	1.93	0.26		0	<20	P 2
132	131	10/96	C	TEC-TEH	TEC-TEH			00018	610VS	BW1+	1.78	0.29		0	<20	P 2
		10/96	H	07H-VS3	08H-VS3			00229	580HP	BW1+	1.95	0.65		0	<20	P 3
142	131	10/96	H	07H-VS3	07H-VS3			00230	580HP	BW1+	1.84	0.72		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00230	580HP	VS3+	0.91	0.92		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00018	610VS	03C-	1.07	0.47		0	<20	P 2
144	131	10/96	C	TEC-TEH	TEC-TEH			00089	610VS	04C+	0.78	0.42		0	<20	P 2
146	131	10/96	H	07H-VS3	07H-08H			00234	580HP	07H+	0.00	0.50		0	<20	P 3
75	132	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	08H+	1.02	1.76		0	33	P 2
		10/96	H	08H-08H	08H-08H			00278	580HP	08H+	1.12	1.99		0	27	P 3
83	132	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	07H+	0.89	0.41		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	08H+	0.00	0.41		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	BW1+	2.15	0.28		0	<20	P 2
87	132	10/96	C	TEC-TEH	TEC-TEH			00157	610VS	08H+	1.07	0.42		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00157	610VS	BW1+	1.91	0.34		0	<20	P 2
91	132	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	07H+	0.98	0.31		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00126	580HP	08H-	0.80	0.64		0	<20	P 3
97	132	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08C+	0.86	0.47		0	<20	P 2
99	132	10/96	H	07H-VS3	07H-VS3			00126	580HP	BW1+	1.99	1.44		0	20	P 3
107	132	10/96	C	TEC-TEH	TEC-TEH			00014	610VS	VS3+	0.87	0.51		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00137	580HP	VS3+	0.92	0.92		0	<20	P 3
117	132	10/96	H	07H-VS3	07H-VS3			00138	580HP	08H-	0.02	0.79		0	<20	P 3
119	132	10/96	H	07H-VS3	07H-VS3			00229	580HP	BW1-	1.50	0.72		0	<20	P 3
125	132	10/96	H	07H-VS2	07H-VS3			00234	580HP	BW1+	2.06	0.53		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00018	610VS	BW1+	2.19	0.32		0	<20	P 2
127	132	10/96	H	07H-VS3	06H-VS3			00229	580HP	BW1+	1.91	0.62		0	<20	P 3
131	132	10/96	H	07H-VS3	09H-VS3			00233	580HP	09H+	0.87	0.48		0	<20	P 3
137	132	10/96	H	07H-VS3	07H-VS3			00230	580HP	BW1+	1.97	0.71		0	<20	P 3
139	132	10/96	H	07H-VS3	07H-VS3			00233	580HP	BW1+	1.91	0.64		0	<20	P 3
141	132	10/96	H	07H-VS3	07H-VS3			00234	580HP	BW1+	1.94	0.56		0	<20	P 3
143	132	10/96	C	TEC-TEH	TEC-TEH			00089	610VS	03C-	0.99	0.38		0	<20	P 2
145	132	10/96	C	TEC-TEH	TEC-TEH			00090	610VS	05C-	1.00	0.36		0	<20	P 2
70	133	10/96	H	VS3-VS3	VS3-VS3			00019	580HP	VS3+	0.81	1.00		0	20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS3+	0.82	1.03		0	23	P 2
72	133	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	0.96	0.81		0	<20	P 2
74	133	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS3-	0.53	1.33		0	27	P 2
76	133	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	1.08	0.74		0	<20	P 2
80	133	10/96	H	VS3-VS3	VS3-VS3			00278	580HP	VS3-	0.89	2.58		0	33	P 3
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS3-	0.74	1.62		0	30	P 2
		10/96	H	VS3-VS3	VS3-VS3			00278	580HP	VS3-	0.24	2.45		0	32	P 3
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS3-	0.12	1.18		0	25	P 2
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS5-	0.62	0.73		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
84	133	10/96	C	TEC-TEH	TEC-TEH	00156	610LF	08H+	0.98		0.41		0	<20	P 2	
		10/96	H	VS3-VS3	VS3-VS3	00278	580HP	VS3+	1.07		3.29		0	38	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00156	610LF	VS3-	0.60		2.21		0	35	P 2	
		10/96	H	VS3-VS3	VS3-VS3	00278	580HP	VS3-	0.16		3.10		0	37	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00156	610LF	VS3+	0.10		1.41		0	27	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00156	610LF	VS3+	0.93		0.67		0	<20	P 2	
		10/96	H	VS3-VS3	VS3-VS3	00278	580HP	VS3+	0.98		1.20		0	<20	P 3	
86	133	10/96	C	TEC-TEH	TEC-TEH	00157	610VS	07H+	1.00		0.37		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00157	610VS	08H+	0.97		1.23		0	26	P 2	
		10/96	H	08H-08H	08H-08H	00278	580HP	08H+	1.20		1.75		0	25	P 3	
94	133	10/96	H	07H-VS3	07H-VS3	00126	580HP	07H+	0.82		0.49		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00015	610VS	07H+	0.98		0.32		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00126	580HP	08H-	0.13		0.63		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00015	610VS	08H-	0.11		0.40		0	<20	P 2	
100	133	10/96	H	07H-VS3	07H-VS3	00127	580HP	BW1+	1.85		0.91		0	<20	P 3	
102	133	10/96	C	TEC-TEH	TEC-TEH	00015	610VS	08H-	0.71		0.38		0	<20	P 2	
106	133	10/96	H	07H-VS3	07H-VS3	00137	580HP	BW1-	1.56		0.82		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00137	580HP	BW1+	1.94		0.28		1.2	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3	00137	580HP	BW1+	1.94		0.56		1.9	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3	00137	580HP	BW1+	1.94		0.00		28	SAI	P 3	
108	133	10/96	H	07H-VS3	07H-VS3	00138	580HP	08H+	0.98		0.53		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00138	580HP	BW1-	1.97		0.38		0	<20	P 3	
116	133	10/96	H	07H-VS3	07H-VS3	00140	580HP	VS2-	0.65		0.41		0	<20	P 3	
134	133	10/96	H	07H-VS3	VS1-VS3	00233	580HP	VS1-	0.09		0.64		0	<20	P 3	
		10/96	H	07H-VS3	BW1-VS1	00387	580HP	VS1+	0.12		0.67		0	<20	P 3	
136	133	10/96	H	07H-VS3	07H-VS3	00234	580HP	BW1+	2.11		0.69		0	<20	P 3	
138	133	10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	2.00		0.38		0.8	SVI	P 2	
		10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	2.00		0.66		1.0	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	2.00		0.00		104	SVI	P 3	
		10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	2.10		0.63		0	<20	P 3	
142	133	10/96	H	07H-VS3	07H-VS3	00233	580HP	BW1+	2.19		0.60		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00089	610VS	VS1-	0.94		0.93		0	24	P 2	
		10/96	H	07H-VS3	07H-VS3	00233	580HP	VS1-	0.53		0.74		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00089	610VS	VS3-	0.65		0.36		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00233	580HP	VS3-	0.58		1.00		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00233	580HP	VS3-	0.00		0.76		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00089	610VS	VS5+	0.83		0.44		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00089	610VS	VS7-	0.88		0.96		0	24	P 2	
144	133	10/96	C	TEC-TEH	TEC-TEH	00090	610VS	03C-	1.03		0.60		0	<20	P 2	
79	134	10/96	C	TEC-TEH	TEC-TSH	00154	610LF	VS3+	1.03		0.72		0	<20	P 2	
81	134	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	08H+	1.10		0.35		0	<20	P 2	
83	134	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	08H-	0.91		0.38		0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00154	610LF	VS3+	1.01		1.68		0	31	P 2	
85	134	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	08H+	0.84		0.48		0	<20	P 2	
89	134	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	VS2-	0.84		0.47		0	<20	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
93	134	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H-	0.78	0.29		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	0.90	0.57		0	<20	P 2
97	134	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	07H-	0.97	0.52		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H-	0.98	0.42		0	<20	P 2
99	134	10/96	H	07H-VS3	07H-VS3	4		00180	580HP	BW1+	2.09	0.77		0	<20	P 3
101	134	10/96	H	07H-VS3	07H-VS3	4		00181	580HP	BW1+	1.38	1.13		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1+	2.00	0.45		0	<20	P 2
103	134	10/96	H	07H-VS3	07H-BW1	4		00275	580HP	08H-	0.14	1.01		0	<20	P 3
		10/96	H	07H-VS3	07H-BW1	4		00275	580HP	08H+	0.81	0.79		0	<20	P 3
105	134	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	0.60	0.34		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00137	580HP	08H+	0.81	0.48		0	<20	P 3
107	134	10/96	H	07H-VS3	07H-VS3			00138	580HP	08H-	0.03	0.88		0	<20	P 3
113	134	10/96	H	07H-VS3	07H-VS3			00137	580HP	BW1+	1.75	0.78		0	<20	P 3
115	134	10/96	H	07H-VS3	07H-VS3			00138	580HP	BW1+	1.78	0.82		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00014	610VS	BW1+	1.82	0.46		0	<20	P 2
125	134	10/96	H	07H-VS2	07H-VS3			00234	580HP	BW1+	1.77	0.54		0	<20	P 3
		10/96	H	07H-VS2	07H-VS3			00234	580HP	VS2-	0.53	0.48		0	<20	P 3
133	134	10/96	H	07H-VS3	07H-VS3			00234	580HP	BW1+	1.75	0.33		0	<20	P 3
135	134	10/96	H	07H-VS3	07H-VS3			00229	580HP	BW1+	1.71	0.65		0	<20	P 3
139	134	10/96	H	07H-VS3	07H-VS3			00233	580HP	09H-	0.69	0.57		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00233	580HP	BW1+	1.75	1.28		0	20	P 3
143	134	10/96	H	07H-VS3	07H-VS3			00234	580HP	BW1+	1.70	0.49		0	<20	P 3
66	135	10/96	C	TEC-TEH	TEC-TEH			00155	610VS	08H+	1.13	0.60		0	<20	P 2
72	135	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	0.91	0.44		0	<20	P 2
76	135	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	0.94	0.63		0	<20	P 2
78	135	10/96	C	TEC-TEH	TEC-TEH			00155	610VS	08H+	1.10	0.56		0	<20	P 2
80	135	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	1.00	0.40		0	<20	P 2
84	135	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	BW1+	1.76	0.45		0	<20	P 2
88	135	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	BW1+	1.87	0.66		0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1			00278	580HP	BW1+	2.13	1.93		0	27	P 3
92	135	10/96	C	TEC-TEH	TEC-TEH			00014	610VS	08H+	0.90	0.61		0	<20	P 2
94	135	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H-	0.03	0.43		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	1.10	0.69		0	<20	P 2
100	135	10/96	H	07H-VS3	07H-VS3	4		00181	580HP	08H+	0.84	0.79		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	4		00181	580HP	BW1+	1.99	0.84		0	<20	P 3
102	135	10/96	H	07H-VS3	07H-08H	4		00275	580HP	07H+	0.93	0.33		0	<20	P 3
		10/96	H	07H-VS3	08H-VS3	4		00182	580HP	08H-	0.05	0.42		0	<20	P 3
		10/96	H	07H-VS3	08H-VS3	4		00182	580HP	VS2-	1.00	0.68		0	<20	P 3
106	135	10/96	H	07H-VS3	07H-VS3			00137	580HP	BW1-	1.86	0.55		0	<20	P 3
116	135	10/96	H	07H-VS3	07H-VS3			00139	580HP	BW1+	1.81	0.72		0	<20	P 3
122	135	10/96	H	07H-VS2	07H-VS2			00229	580HP	BW1+	1.82	1.26		0	21	P 3
132	135	10/96	H	07H-VS3	07H-VS3			00230	580HP	09H+	0.94	0.75		0	<20	P 3
134	135	10/96	H	07H-VS3	07H-VS3			00233	580HP	08H+	0.76	0.54		0	<20	P 3
136	135	10/96	C	TEC-TEH	TEC-TEH			00019	610VS	BW1+	1.77	0.26		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00234	580HP	BW1+	1.99	1.16		0	21	P 3



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 47 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
138	135	10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	2.13	0.73	0	<20	P 3	
140	135	10/96	H	07H-VS3	07H-VS3	00230	580HP	BW1+	1.95	1.04	0	<20	P 3	
144	135	10/96	H	07H-VS3	07H-VS3	00234	580HP	BW1+	1.65	0.57	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00090	610VS	03C+	0.73	1.44	0	30	P 2	
77	136	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	06H+	0.98	0.67	0	<20	P 2	
79	136	10/96	H	VS3-VS3	VS3-VS3	00278	580HP	VS3-	1.30	2.03	0	28	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS3-	0.89	0.91	0	24	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS3+	0.99	1.30	0	30	P 2	
		10/96	H	VS3-VS3	VS3-VS3	00278	580HP	VS3+	1.13	2.14	0	29	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS5-	0.96	0.45	0	<20	P 2	
81	136	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.87	0.30	0	<20	P 2	
83	136	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	08H-	0.90	0.59	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS3+	0.20	0.68	0	20	P 2	
87	136	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	08H+	0.99	0.34	0	<20	P 2	
91	136	10/96	H	07H-VS3	07H-VS3	00114	580HP	08H+	0.93	0.69	0	<20	P 3	
95	136	10/96	H	07H-VS3	07H-VS3	00180	580HP	08H+	1.04	0.70	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00014	610VS	VS2+	0.87	0.41	0	<20	P 2	
101	136	10/96	H	07H-VS3	07H-VS3	00121	580HP	08H+	0.99	0.59	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3	00121	580HP	BW1+	1.97	0.86	0	<20	P 3	
103	136	10/96	H	07H-VS3	07H-VS3	00137	580HP	08H+	34.69	0.50	16.	SAI	P 2	
		10/96	H	07H-VS3	07H-VS3	00137	580HP	08H+	34.69	0.71	16.	SAI	P 3	
		10/96	H	07H-VS3	07H-VS3	00137	580HP	08H+	34.69	38.00	40	SAI	P 3	
		10/96	H	07H-VS3	06H-VS3	00137	580HP	VS2+	0.72	0.52	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00014	610VS	VS2+	0.87	0.42	0	<20	P 2	
105	136	10/96	C	TEC-TEH	TEC-TEH	00015	610VS	07H+	1.07	0.22	0	<20	P 2	
107	136	10/96	H	07H-VS3	07H-VS3	00139	580HP	VS2+	0.77	0.65	0	<20	P 3	
113	136	10/96	H	07H-VS3	07H-VS3	00270	580HP	BW1+	1.81	0.56	0	<20	P 3	
117	136	10/96	H	07H-VS3	07H-VS3	00139	580HP	09H+	1.29	0.75	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00018	610VS	VS2+	0.87	0.41	0	<20	P 2	
123	136	10/96	H	07H-VS2	07H-VS2	00233	580HP	09H-	0.06	0.64	0	<20	P 3	
129	136	10/96	H	07H-VS3	08H-VS3	00230	580HP	09H+	0.95	0.77	0	<20	P 3	
131	136	10/96	H	07H-VS3	07H-VS3	00233	580HP	BW1+	1.54	0.56	0	<20	P 3	
133	136	10/96	C	TEC-TEH	TEC-TEH	00018	610VS	BW1+	1.83	0.32	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3	00234	580HP	BW1+	2.11	0.59	0	<20	P 3	
135	136	10/96	H	07H-VS3	07H-VS3	00229	580HP	BW1+	1.75	0.76	0	<20	P 3	
141	136	10/96	H	07H-VS3	07H-VS3	00234	580HP	BW1+	1.85	0.69	0	<20	P 3	
143	136	10/96	C	TEC-TEH	TEC-TEH	00090	610VS	03C+	0.73	0.88	0	22	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00090	610VS	02C+	0.82	0.41	0	<20	P 2	
66	137	10/96	H	08H-08H	08H-08H	00001	600HP	08H+	0.48	1.19	0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	08H+	1.05	0.66	0	20	P 2	
76	137	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	08H+	0.89	1.04	0	23	P 2	
		10/96	H	08H-08H	08H-08H	00278	580HP	08H+	1.08	1.41	0	21	P 3	
		10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1-	2.11	0.21	0	<20	P 2	
78	137	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	BW1+	2.21	0.34	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS5-	0.81	1.15	0	28	P 2	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 48 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
80	137	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	1.08	0.46		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	VS3-	0.77	0.36		0	<20	P 2
84	137	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	BW1+	1.75	0.37		0	<20	P 2
86	137	10/96	C	TEC-TEH	TEC-TEH			00155	610VS	08H+	0.87	0.60		0	<20	P 2
90	137	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	0.92	0.43		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00114	580HP	08H+	0.95	0.70		0	<20	P 3
92	137	10/96	H	07H-VS3	07H-VS3			00115	580HP	08H+	0.80	0.67		0	<20	P 3
94	137	10/96	H	07H-VS3	07H-VS3			00114	580HP	BW1+	1.98	0.71		0	<20	P 3
96	137	10/96	H	07H-VS3	07H-VS3			00115	580HP	08H+	0.81	0.79		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00014	610VS	08H+	0.98	0.52		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00115	580HP	BW1+	1.95	1.12		0	<20	P 3
98	137	10/96	H	07H-VS3	07H-VS3			00115	580HP	VS2-	0.90	1.07		0	<20	P 3
100	137	10/96	H	07H-VS3	07H-VS3			00115	580HP	BW1-	1.76	0.61		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00115	580HP	BW1+	1.78	0.88		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00115	580HP	VS2-	0.81	0.71		0	<20	P 3
104	137	10/96	H	07H-VS3	07H-VS3			00139	580HP	08H-	0.40	0.73		0	<20	P 3
108	137	10/96	H	07H-VS3	07H-VS3			00144	580HP	08H+	1.04	0.69		0	<20	P 3
114	137	10/96	H	07H-VS3	07H-VS3			00139	580HP	BW1+	1.45	0.59		0	<20	P 3
122	137	10/96	H	07H-VS2	07H-VS3			00241	580HP	BW1+	1.60	0.50		0	<20	P 3
126	137	10/96	C	TEC-TEH	TEC-TEH			00019	610VS	06H+	0.88	0.39		0	<20	P 2
134	137	10/96	H	07H-VS3	07H-VS3			00234	580HP	09H-	0.70	0.65		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00234	580HP	BW1+	1.82	1.11		0	20	P 3
136	137	10/96	H	07H-VS3	09H-VS3			00239	580HP	BW1+	1.96	0.72		0	<20	P 3
138	137	10/96	H	07H-VS3	09H-VS3			00240	580HP	BW1+	1.62	0.70		0	<20	P 3
67	138	10/96	C	TEC-TEH	TEC-TEH			00155	610VS	08H-	0.83	0.45		0	<20	P 2
73	138	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	0.75	0.67		0	<20	P 2
81	138	10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H-	0.99	0.26		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH			00154	610LF	08H+	0.96	1.67		0	31	P 2
		10/96	H	08H-08H	08H-08H			00278	580HP	08H+	1.16	1.32		0	20	P 3
87	138	10/96	C	TEC-TEH	TEC-TEH			00155	610VS	BW1+	1.88	0.33		0	<20	P 2
93	138	10/96	H	07H-VS3	07H-VS3			00180	580HP	08H+	1.00	0.54		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H+	1.03	0.32		0	<20	P 2
101	138	10/96	H	07H-VS3	07H-VS3			00143	580HP	08H+	0.90	0.48		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3			00143	580HP	BW1+	2.12	0.65		0	<20	P 3
103	138	10/96	C	TEC-TEH	TEC-TEH			00014	610VS	VS2+	0.91	0.39		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00144	580HP	VS2+	0.94	0.48		0	<20	P 3
107	138	10/96	H	07H-VS3	07H-VS3			00144	580HP	VS2+	0.92	0.43		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH			00014	610VS	VS2+	1.02	0.43		0	<20	P 2
113	138	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	VS2+	0.80	0.40		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3			00270	580HP	VS2+	0.85	0.55		0	<20	P 3
117	138	10/96	H	07H-VS3	07H-VS3			00139	580HP	BW1+	0.73	0.76		0	<20	P 3
121	138	10/96	H	07H-VS3	07H-VS3			00240	580HP	BW1+	1.82	0.61		0	<20	P 3
123	138	10/96	H	07H-VS2	07H-VS2			00241	580HP	VS1-	0.72	0.60		0	<20	P 3
		10/96	H	07H-VS2	07H-VS2			00241	580HP	VS2+	0.91	0.46		0	<20	P 3
127	138	10/96	H	07H-VS3	09H-VS3			00239	580HP	BW1+	2.00	1.15		0	<20	P 3

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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 49 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
131	138	10/96	H	07H-VS3	07H-VS3		00241	580HP	BW1+	1.75	0.65		0	<20	P 3
133	138	10/96	H	07H-VS3	07H-VS3		00242	580HP	BW1-	1.44	0.82		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00242	580HP	BW1+	1.89	1.60		0	26	P 3
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.02	0.59		0	<20	P 2
139	138	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	BW1-	1.89	0.34		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00241	580HP	BW1-	1.85	0.85		0	<20	P 3
141	138	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	04H+	0.06	0.53		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00242	580HP	07H+	0.02	2.80		0	37	P 3
		10/96	C	TEC-TEH	TEC-TEH		00090	610VS	07H+	0.11	1.80		0	34	P 2
		10/96	H	07H-VS3	07H-VS3		00242	580HP	08H+	0.71	0.59		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00242	580HP	09H+	0.13	0.88		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00242	580HP	09H+	0.92	0.52		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00090	610VS	VS1+	0.77	0.70		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00242	580HP	VS1+	0.81	1.36		0	23	P 3
76	139	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	08H+	1.01	0.64		0	<20	P 2
78	139	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	VS3-	0.82	1.08		0	27	P 2
88	139	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	2.01	0.92		0	21	P 2
		10/96	H	BW1-BW1	BW1-BW1		00278	580HP	BW1+	2.02	2.04		0	28	P 3
98	139	10/96	H	07H-VS3	07H-VS3	4	00180	580HP	08H-	0.21	0.40		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3	4	00180	580HP	08H+	1.11	0.54		0	<20	P 3
100	139	10/96	H	07H-VS3	07H-VS3		00145	580HP	BW1+	1.68	0.92		0	<20	P 3
102	139	10/96	H	07H-VS3	07H-VS3		00144	580HP	08H-	0.15	0.57		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.11	0.34		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1+	1.70	0.79		0	<20	P 3
106	139	10/96	H	07H-VS3	07H-VS3		00145	580HP	08H+	0.87	0.43		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00145	580HP	BW1-	1.38	0.56		0	<20	P 3
110	139	10/96	H	07H-VS3	07H-VS3		00270	580HP	08H+	0.94	0.61		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00270	580HP	VS2-	0.94	0.53		0	<20	P 3
112	139	10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1+	0.59	0.52		0	<20	P 3
118	139	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.52	0.62		0	<20	P 3
122	139	10/96	H	07H-VS2	06H-VS2		00239	580HP	09H+	0.09	0.39		0	<20	P 3
		10/96	H	07H-VS2	06H-VS2		00239	580HP	BW1+	1.75	1.23		0	20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	1.89	0.30		0	<20	P 2
		10/96	H	07H-VS2	06H-VS2		00239	580HP	VS1+	0.81	0.54		0	<20	P 3
124	139	10/96	H	07H-VS2	VS1-VS2		00239	580HP	VS1+	0.74	0.67		0	<20	P 3
126	139	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1-	1.79	0.57		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.69	0.57		0	<20	P 3
128	139	10/96	H	07H-VS3	07H-VS3		00240	580HP	VS1+	0.89	0.56		.5	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00240	580HP	VS1+	0.89	1.24		.4	SVI	P 4
		10/96	H	07H-VS3	07H-VS3		00240	580HP	VS1+	0.89	24.00		41	SVI	P 4
132	139	10/96	H	07H-VS3	07H-VS3		00240	580HP	09H-	0.93	0.50		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	2.36	0.38		.3	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	2.36	0.91		.7	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	2.36	33.00		57	SVI	P 3
134	139	10/96	C	TEC-TEH	TEC-TEH		00018	610VS	BW1+	1.86	0.45		0	<20	P 2



Handwritten text, possibly a list or notes, located on the left side of the page. The text is faint and difficult to read, but appears to be organized in a structured manner, possibly as a list or a series of notes.

CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 50 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
	10/96		H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.97	1.11	0	<20	P 3	
136	139	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1-	1.90	0.39	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00240	580HP	BW1+	1.91	0.89	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00089	610VS	BW1+	2.04	0.32	0	<20	P 2	
140	139	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	03C+	0.79	0.51	0	<20	P 2	
69	140	10/96	H	08H-08H	08H-08H		00001	600HP	08H-	1.04	1.30	0	24	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	08H-	1.04	0.47	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.79	0.24	0	<20	P 2	
79	140	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	0.98	0.42	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00155	610VS	BW1+	2.06	0.31	0	<20	P 2	
81	140	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.82	0.36	0	<20	P 2	
87	140	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	0.94	0.40	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00155	610VS	BW1+	2.13	0.52	0	<20	P 2	
107	140	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS2+	0.93	0.43	0	<20	P 2	
109	140	10/96	H	07H-VS3	VS2-VS3		00147	580HP	VS2-	0.86	0.51	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00270	580HP	VS2-	0.86	0.53	0	<20	P 3	
117	140	10/96	H	07H-VS3	07H-VS3		00147	580HP	09H-	0.70	0.64	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00019	610VS	09H-	0.40	0.45	127	<20	P 2	
119	140	10/96	H	07H-VS3	07H-VS3		00239	580HP	09H+	0.68	0.52	0	<20	P 3	
121	140	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	1.79	0.53	0	<20	P 3	
127	140	10/96	H	07H-VS3	08H-VS3		00239	580HP	BW1+	1.75	0.60	0	<20	P 3	
129	140	10/96	H	07H-VS3	08H-VS3		00240	580HP	BW1+	1.70	0.75	0	<20	P 3	
131	140	10/96	H	07H-VS3	07H-VS3		00245	580HP	BW1-	1.73	0.58	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00245	580HP	BW1+	1.85	0.63	0	<20	P 3	
133	140	10/96	H	07H-VS3	07H-VS3		00246	580HP	BW1-	1.59	0.93	0	<20	P 3	
	10/96		H	07H-VS3	07H-VS3		00246	580HP	BW1+	1.68	1.35	0	22	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00018	610VS	BW1+	2.02	0.49	0	<20	P 2	
135	140	10/96	H	07H-VS3	06H-VS3		00240	580HP	BW1-	1.71	0.39	0	<20	P 3	
139	140	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	02C-	0.21	0.33	0	<20	P 2	
64	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.87	0.15	0	<20	P 2	
66	141	10/96	H	08H-08H	08H-08H		00001	600HP	08H+	0.81	1.06	0	21	P 3	
68	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.97	0.30	0	<20	P 2	
	10/96		H	BW1-BW1	BW1-BW1		00019	580HP	BW1-	1.80	0.58	0	<20	P 3	
	10/96		H	BW1-BW1	BW1-BW1		00019	580HP	BW1+	1.37	0.54	0	<20	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.78	0.19	0	<20	P 2	
72	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.82	0.44	0	<20	P 2	
74	141	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	1.05	0.42	0	<20	P 2	
76	141	10/96	H	VS3-VS3	VS3-VS3		00278	580HP	VS3-	1.08	2.73	0	34	P 3	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	VS3-	0.86	1.99	0	34	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	VS3+	1.03	0.33	0	<20	P 2	
	10/96		H	VS3-VS3	VS3-VS3		00278	580HP	VS3+	1.09	0.78	0	<20	P 3	
78	141	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	VS3-	0.92	0.51	0	<20	P 2	
80	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.83	0.28	0	<20	P 2	
	10/96		C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.80	0.15	0	<20	P 2	
84	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.83	0.34	0	<20	P 2	

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## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 51 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
LIN	DATE													
88	141	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.98	0.75	0	<20	P 2
100	141	10/96	H	07H-VS3	07H-VS3		00144	580HP	08H-	0.38	0.67	0	<20	P 3
104	141	10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1+	1.94	0.81	0	<20	P 3
106	141	10/96	H	07H-VS3	07H-VS3		00146	580HP	08H-	0.00	0.50	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	39.44	0.00	0	SAI	P 2
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	39.44	0.31	.9	SAI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	39.44		53	SAI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.69	0.45	.4	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.69	0.58	.6	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.70	75.00	40	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.75	0.62	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	1.76	0.21	0	<20	P 2
108	141	10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1-	1.59	0.97	0	<20	P 3
112	141	10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1-	1.77	0.81	0	<20	P 3
118	141	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1-	1.80	0.65	0	<20	P 3
122	141	10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	1.94	0.38	0	<20	P 2
		10/96	H	07H-VS2	07H-VS3		00245	580HP	BW1+	1.96	1.38	0	24	P 3
124	141	10/96	H	07H-VS2	06H-VS2		00239	580HP	09H+	0.00	0.40	0	<20	P 3
		10/96	H	07H-VS2	06H-VS2		00239	580HP	BW1-	1.63	0.74	0	<20	P 3
130	141	10/96	H	07H-VS3	07H-VS3		00246	580HP	09H+	0.77	0.43	0	<20	P 3
132	141	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.98	1.08	0	<20	P 3
134	141	10/96	C	TEC-TEH	TEC-TEH		00089	610VS	BW1+	1.78	0.65	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	1.81	1.41	0	22	P 3
138	141	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	03C-	0.97	0.93	0	23	P 2
91	142	10/96	H	07H-VS3	07H-VS3		00108	580HP	08H+	0.84	0.91	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.97	0.44	0	<20	P 2
101	142	10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	0.91	0.51	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1-	1.83	0.61	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.80	0.62	0	<20	P 3
103	142	10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1+	1.97	0.77	0	<20	P 3
105	142	10/96	H	07H-VS3	07H-VS3		00145	580HP	BW1+	1.86	0.96	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.00	0.16	0	<20	P 2
107	142	10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1+	1.84	0.97	0	<20	P 3
111	142	10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1+	1.83	0.68	0	<20	P 3
115	142	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	BW1+	2.00	0.40	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1+	2.07	1.08	0	<20	P 3
117	142	10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	8.69	0.61	.7	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	8.72	0.02	.4	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	8.72	5.00	1	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	13.75	0.84	.4	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	13.75	0.70	.5	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	13.75	5.00	3	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	15.06	1.01	.4	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	15.06	0.72	.4	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00146	580HP	08H+	15.06	5.00	4	SVI	P 3

[illegible]

CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 52 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
119	142	10/96	H	07H-VS3	07H-VS3		00239	580HP	09H+	0.67	0.48	0	<20	P 3	
121	142	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	1.90	1.22	0	<20	P 3	
123	142	10/96	H	07H-VS2	07H-VS3		00245	580HP	BW1+	1.83	0.92	0	<20	P 3	
127	142	10/96	H	07H-VS3	07H-VS3		00239	580HP	BW1+	1.75	0.72	0	<20	P 3	
129	142	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	2.04	0.54	0	<20	P 3	
131	142	10/96	H	07H-VS3	07H-VS3		00245	580HP	BW1-	2.00	0.65	0	<20	P 3	
133	142	10/96	H	07H-VS3	07H-VS3		00246	580HP	BW1+	1.82	0.84	0	<20	P 3	
12	143	10/96	H	04H-04H	04H-04H		00002	600HP	04H+	0.92	0.81	0	<20	P 3	
68	143	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	08H-	0.94	0.51	0	<20	P 2	
		10/96	H	08H-08H	08H-08H		00002	600HP	08H+	0.84	1.03	0	<20	P 3	
70	143	10/96	H	08H-BW1	08H-BW1		00019	580HP	08H-	0.80	0.50	0	<20	P 3	
		10/96	H	08H-BW1	08H-BW1		00019	580HP	08H+	0.74	0.91	0	<20	P 3	
		10/96	H	08H-BW1	08H-BW1		00019	580HP	BW1+	1.58	0.95	0	<20	P 3	
80	143	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.85	0.21	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	VS3-	1.03	0.85	0	20	P 2	
		10/96	C	VS5-VS3	VS5-VS3	1	00240	580HP	VS3-	0.94	1.07	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	VS5+	0.91	0.56	0	<20	P 2	
		10/96	C	VS5-VS3	VS5-VS3	1	00240	580HP	VS5+	1.02	0.96	0	<20	P 3	
84	143	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.90	0.18	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.83	0.55	0	<20	P 2	
88	143	10/96	H	BW1-VS2	BW1-VS2	1	00487	580HP	BW1-	2.04	0.90	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.97	0.36	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.92	0.26	0	<20	P 2	
		10/96	H	BW1-VS2	BW1-VS2	1	00487	580HP	BW1+	1.95	1.19	0	<20	P 3	
98	143	10/96	H	07H-VS3	07H-VS3		00144	580HP	08H-	0.09	0.59	0	<20	P 3	
100	143	10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1+	1.86	1.22	0	21	P 3	
102	143	10/96	H	07H-VS3	07H-VS3		00145	580HP	08H-	0.09	0.57	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.05	0.22	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00145	580HP	08H+	0.81	0.79	0	<20	P 3	
104	143	10/96	H	07H-VS3	07H-VS3		00144	580HP	BW1+	1.91	1.53	0	23	P 3	
108	143	10/96	H	07H-VS3	07H-VS3		00147	580HP	08H+	0.81	0.65	0	<20	P 3	
110	143	10/96	H	07H-VS3	07H-VS3		00145	580HP	08H-	0.06	0.75	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.05	0.38	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00145	580HP	08H+	0.98	0.55	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00145	580HP	VS2-	0.94	0.70	0	<20	P 3	
112	143	10/96	H	07H-VS3	07H-VS3		00144	580HP	08H+	0.90	0.89	0	<20	P 3	
114	143	10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1-	1.95	0.47	0	<20	P 3	
116	143	10/96	H	07H-VS3	07H-VS3		00147	580HP	09H-	0.13	0.67	0	<20	P 3	
120	143	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1-	1.91	1.12	0	<20	P 3	
122	143	10/96	H	07H-VS2	07H-VS3		00239	580HP	BW1-	1.92	1.05	0	<20	P 3	
		10/96	H	07H-VS2	07H-VS3		00239	580HP	BW1+	1.90	0.98	0	<20	P 3	
124	143	10/96	H	07H-VS2	07H-VS2		00240	580HP	BW1+	1.85	0.45	0	<20	P 3	
126	143	10/96	H	07H-VS3	07H-VS3		00245	580HP	BW1+	1.89	1.32	0	23	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.09	0.45	0	<20	P 2	
132	143	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1-	1.80	0.58	0	<20	P 3	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 53 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
75	144	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	1.00	0.87		0	24	P 2
77	144	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	VS3+	0.91	2.82		0	40	P 2
		10/96	H	VS3-VS3	VS3-VS3		00278	580HP	VS3+	1.06	2.56		0	33	P 3
81	144	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.89	0.32		0	<20	P 2
89	144	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.94	0.33		0	<20	P 2
103	144	10/96	H	07H-VS3	07H-VS3		00148	580HP	08H+	0.97	0.74		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H+	1.09	0.63		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00148	580HP	VS2+	0.70	0.64		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS2+	0.88	0.55		0	<20	P 2
105	144	10/96	H	07H-VS3	07H-VS3		00149	580HP	BW1-	1.71	0.66		0	<20	P 3
109	144	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.17		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1-	1.89	0.65		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00147	580HP	VS2+	0.88	0.54		0	<20	P 3
117	144	10/96	H	07H-VS3	07H-VS3		00147	580HP	09H+	0.20	0.63		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00059	610VS	09H+	1.49	0.86		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1+	1.00	0.63		0	<20	P 3
119	144	10/96	H	07H-VS3	09H-VS3		00239	580HP	09H+	0.70	0.67		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	09H+	0.90	0.52		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00245	580HP	09H+	0.90	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00018	610VS	09H+	0.97	0.62		0	<20	P 2
121	144	10/96	H	07H-VS3	07H-VS3		00240	580HP	BW1+	1.93	0.94		0	<20	P 3
123	144	10/96	H	BW1-VS3	BW1-VS3		00245	580HP	BW1+	1.95	1.24		0	22	P 3
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.03	0.37		0	<20	P 2
129	144	10/96	H	07H-VS3	07H-VS3		00251	580HP	BW1+	1.96	0.49		0	<20	P 3
131	144	10/96	H	07H-VS3	07H-VS3		00245	580HP	BW1+	1.90	0.80		0	<20	P 3
60	145	10/96	H	BW1-BW1	BW1-BW1		00019	580HP	BW1+	1.64	0.51		0	<20	P 3
66	145	10/96	H	08H-08H	08H-08H		00001	600HP	08H+	1.37	0.74		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	08H+	1.83	0.47		0	<20	P 2
70	145	10/96	H	BW1-BW1	BW1-BW1		00019	580HP	BW1+	1.54	0.70		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.88	0.36		0	<20	P 2
80	145	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	0.91	0.43		0	<20	P 2
88	145	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.92	0.82		0	<20	P 2
90	145	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H-	0.81	0.45		0	<20	P 2
		10/96	H	08H-BW1	08H-BW1	1	00481	580HP	BW1+	3.90	0.80	0.4	SVI	P 2	
		10/96	H	08H-BW1	08H-BW1	1	00481	580HP	BW1+	3.90	1.21	0.4	SVI	P 3	
		10/96	H	08H-BW1	08H-BW1	1	00481	580HP	BW1+	3.90	140.0	92	SVI	P 3	
94	145	10/96	H	07H-VS3	06H-VS3		00148	580HP	BW1-	1.99	0.74		0	<20	P 3
		10/96	H	07H-VS3	06H-VS3		00148	580HP	BW1+	1.75	0.41		0	<20	P 3
98	145	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.34		0	<20	P 2
		10/96	H	07H-VS3	BW1-VS3		00146	580HP	BW1-	2.00	1.15		0	20	P 3
100	145	10/96	H	07H-VS3	07H-VS3		00147	580HP	BW1+	1.98	1.30		0	21	P 3
104	145	10/96	H	07H-VS3	07H-VS3		00149	580HP	BW1-	2.15	1.03		0	<20	P 3
106	145	10/96	H	07H-VS3	07H-VS3		00146	580HP	BW1-	2.15	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.22		0	<20	P 2
108	145	10/96	H	07H-VS3	07H-VS3		00147	580HP	08H-	0.25	0.75		0	<20	P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 54 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

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CUMULATIVE REPORT  
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OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	t	CH	CHNG
60	147	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.85	0.32	0	<20	P 2			
66	147	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	08H-	1.25	0.56	0	<20	P 2			
70	147	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	08H+	1.08	0.35	0	<20	P 2			
78	147	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS3-	0.69	0.42	0	<20	P 2			
80	147	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.78	0.27	0	<20	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00154	610LF	VS3+	0.99	0.54	0	<20	P 2			
84	147	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1-	1.80	0.23	0	<20	P 2			
90	147	10/96	C	TEC-TEH	TEC-TEH	00015	610VS	BW1-	2.00	0.31	0	<20	P 2			
94	147	10/96	H	07H-VS3	07H-VS3	00151	580HP	BW1+	1.61	0.85	0	<20	P 3			
96	147	10/96	H	07H-VS3	07H-VS3	00152	580HP	08H+	0.77	0.40	0	<20	P 3			
98	147	10/96	H	07H-VS3	07H-VS3	00148	580HP	BW1+	1.75	0.64	0	<20	P 3			
100	147	10/96	H	07H-VS3	07H-VS3	00150	580HP	BW1-	1.77	0.65	0	<20	P 3			
		10/96	H	07H-VS3	07H-VS3	00150	580HP	BW1+	1.96	1.62	0	26	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00014	610VS	BW1+	2.00	0.52	0	<20	P 2			
102	147	10/96	C	TEC-TEH	TEC-TEH	00015	610VS	BW1-	2.03	0.31	0	<20	P 2			
		10/96	H	07H-VS3	07H-VS3	00150	580HP	BW1-	2.03	1.04	0	<20	P 3			
104	147	10/96	H	07H-VS3	07H-VS3	00151	580HP	BW1-	1.63	0.75	0	<20	P 3			
106	147	10/96	H	07H-VS3	07H-VS3	00148	580HP	08H+	0.82	0.62	0	<20	P 3			
		10/96	H	07H-VS3	07H-VS3	00148	580HP	BW1-	1.92	0.62	0	<20	P 3			
108	147	10/96	H	07H-VS3	07H-VS3	00265	580HP	BW1+	2.14	0.84	0	<20	P 3			
110	147	10/96	H	07H-VS3	08H-VS3	00148	580HP	08H-	0.13	0.60	0	<20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00015	610VS	08H-	0.08	0.33	0	<20	P 2			
		10/96	H	07H-VS3	08H-VS3	00148	580HP	08H+	0.89	0.49	0	<20	P 3			
114	147	10/96	H	07H-VS3	07H-VS3	00148	580HP	08H-	0.19	0.66	0	<20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00015	610VS	08H+	0.00	0.31	0	<20	P 2			
118	147	10/96	H	07H-VS3	07H-BW1	00249	580HP	BW1-	1.71	0.70	0	<20	P 3			
		10/96	H	07H-VS3	07H-BW1	00249	580HP	BW1+	1.54	0.37	0	<20	P 3			
122	147	10/96	C	TEC-TEH	TEC-TEH	00019	610VS	BW1-	1.98	0.37	0	<20	P 2			
		10/96	H	07H-VS2	07H-VS3	00249	580HP	BW1-	1.81	1.33	0	<20	P 3			
		10/96	H	07H-VS2	07H-VS3	00249	580HP	BW1+	1.77	0.68	0	<20	P 3			
		10/96	C	TEC-TEH	TEC-TEH	00019	610VS	BW1+	2.00	0.25	0	<20	P 2			
132	147	10/96	C	TEC-TEH	TEC-TEH	00090	610VS	03C-	0.15	0.54	0	<20	P 2			
75	148	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	05C+	4.88	3.73	6	BLI	1			
77	148	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.85	0.31	0	<20	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00154	610LF	VS3+	0.91	0.76	0	<20	P 2			
79	148	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	BW1+	2.25	0.57	0	<20	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS3+	0.94	0.96	0	25	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VSS+	1.09	1.92	0	36	P 2			
81	148	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1-	2.04	0.24	0	<20	P 2			
		10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.82	0.49	0	<20	P 2			
87	148	10/96	C	TEC-TEH	TEC-TEH	00155	610VS	VS2-	0.88	0.82	0	23	P 2			
89	148	10/96	C	TEC-TEH	TEC-TEH	00154	610LF	BW1+	1.87	0.24	0	<20	P 2			
93	148	10/96	H	07H-VS3	07H-VS3	00150	580HP	07H+	15.20	0.19	0.3	SVI	P 2			
		10/96	H	07H-VS3	07H-VS3	00150	580HP	07H+	15.20	0.58	0.3	SVI	P 3			
		10/96	H	07H-VS3	07H-VS3	00150	580HP	07H+	15.20	139.0	42	SVI	P 3			



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ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
99	148	10/96	H	07H-VS3	07H-VS3		00150	580HP	BW1+	2.18	1.28	0	20	P 3	
101	148	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	1.77	0.29	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	1.77	1.03	0	<20	P 3	
105	148	10/96	H	07H-VS3	07H-VS3		00150	580HP	BW1-	1.46	1.02	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	1.83	0.28	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00150	580HP	BW1+	2.04	1.28	0	20	P 3	
113	148	10/96	H	07H-VS3	07H-VS5		00156	580HP	08H+	0.77	0.64	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.82	0.27	0	<20	P 2	
115	148	10/96	H	07H-VS3	07H-VS3		00153	580HP	BW1-	1.93	0.36	0	<20	P 3	
119	148	10/96	H	07H-VS3	06H-VS3		00249	580HP	BW1+	1.83	0.68	0	<20	P 3	
121	148	10/96	H	07H-VS3	06H-VS3		00251	580HP	09H+	1.16	0.57	0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	2.00	0.25	0	<20	P 2	
		10/96	H	07H-VS3	06H-VS3		00251	580HP	BW1+	2.22	1.13	0	<20	P 3	
123	148	10/96	H	07H-VS2	07H-VS2		00249	580HP	BW1+	1.65	-0.94	0	<20	P 3	
131	148	10/96	H	07H-VS3	07H-VS3		00251	580HP	BW1+	1.75	0.92	0	<20	P 3	
42	149	10/96	C	TEC-TEH	TEC-TEH		00109	610VS	03C+	13.11	0.16	139	20	1	
62	149	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	BW1+	2.25	0.30	0	<20	P 2	
64	149	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.90	0.25	0	<20	P 2	
78	149	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	1.00	0.36	0	<20	P 2	
80	149	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.75	0.32	0	<20	P 2	
82	149	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	0.96	0.38	0	<20	P 2	
84	149	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	08H+	0.02	0.36	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	08H+	0.91	0.37	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.75	0.34	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.84	0.25	0	<20	P 2	
86	149	10/96	C	TEC-TEH	TEC-TEH		00155	610VS	08H+	0.95	0.34	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00155	610VS	BW1-	1.96	0.41	0	<20	P 2	
88	149	10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1-	1.75	0.28	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00154	610LF	BW1+	1.80	0.34	0	<20	P 2	
96	149	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS2+	0.88	0.40	0	<20	P 2	
98	149	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.06	0.31	0	<20	P 2	
		10/96	H	07H-VS3	BW1-VS3		00157	580HP	BW1+	2.17	0.95	0	<20	P 3	
100	149	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H-	0.03	0.81	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00158	580HP	08H-	-0.02	1.07	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00158	580HP	08H+	0.86	0.61	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1-	2.07	0.52	0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1+	1.79	1.41	0	24	P 3	
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	BW1+	2.00	0.46	0	<20	P 2	
102	149	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.11	0.35	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00156	580HP	BW1-	2.05	1.15	0	<20	P 3	
104	149	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	BW1-	2.16	0.60	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00153	580HP	BW1-	2.03	1.44	0	25	P 3	
106	149	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.56	0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1-	2.00	1.55	0	25	P 3	
108	149	10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H-	0.06	0.49	0	<20	P 2	



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ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
		10/96	H	07H-VS3	07H-VS3		00158	580HP	08H-	0.04	0.75	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00158	580HP	08H+	0.94	0.64	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1+	1.75	0.83	0	<20	P 3
112	149	10/96	H	07H-VS3	07H-VS3		00153	580HP	08H-	0.11	1.11	0	21	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H-	0.08	0.49	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	08H+	0.94	0.34	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00153	580HP	08H+	0.97	0.78	0	<20	P 3
118	149	10/96	H	07H-VS3	07H-VS3		00249	580HP	09H+	0.88	1.07	0	<20	P 3
120	149	10/96	H	07H-VS3	06H-VS3		00249	580HP	BW1+	1.36	0.42	0	<20	P 3
122	149	10/96	H	07H-VS2	06H-VS2		00251	580HP	BW1+	2.17	0.98	0	<20	P 3
124	149	10/96	H	07H-VS2	07H-VS2		00387	580HP	BW1-	1.70	0.61	0	<20	P 3
		10/96	H	07H-VS2	07H-VS2		00387	580HP	BW1+	1.75	1.12	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00089	610VS	BW1+	1.96	0.36	0	<20	P 2
128	149	10/96	H	07H-VS3	08H-VS3		00249	580HP	BW1+	1.84	0.43	0	<20	P 3
67	150	10/96	H	07H-07H	07H-07H	5	00487	580HP	07H-	0.95	0.58	.3	SVI	P 2
		10/96	H	07H-07H	07H-07H	5	00487	580HP	07H-	0.95	0.95	.3	SVI	P 3
		10/96	H	07H-07H	07H-07H	5	00487	580HP	07H-	0.95	93.00	46	SVI	P 3
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	07H-	0.83	0.56	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1-	1.87	0.43	0	<20	P 2
71	150	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	VS3+	0.99	0.67	0	<20	P 2
73	150	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	0.91	1.23	0	26	P 2
77	150	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	1.06	0.47	0	<20	P 2
85	150	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	1.01	1.18	0	25	P 2
		10/96	H	08H-08H	08H-08H		00278	580HP	08H+	1.04	0.97	0	<20	P 3
87	150	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	2.08	0.31	0	<20	P 2
93	150	10/96	H	07H-VS3	07H-VS3		00153	580HP	08H+	0.87	0.48	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	1.05	0.25	0	<20	P 2
97	150	10/96	H	07H-VS3	07H-VS3		00158	580HP	VS2+	1.00	0.61	0	<20	P 3
99	150	10/96	H	07H-VS3	07H-VS3		00156	580HP	BW1-	1.80	0.87	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	BW1+	2.00	0.43	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00156	580HP	BW1+	2.03	1.60	0	22	P 3
103	150	10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1-	1.94	1.15	0	20	P 3
		10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1+	1.99	1.21	0	21	P 3
107	150	10/96	H	07H-VS3	07H-VS3		00156	580HP	08H-	0.17	0.76	0	<20	P 3
111	150	10/96	H	07H-VS3	07H-VS3		00157	580HP	08H+	42.31	0.92	0.4	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00157	580HP	08H+	42.31	0.71	0.4	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00157	580HP	08H+	42.31	34.00	39	SVI	P 3
113	150	10/96	H	07H-VS3	07H-VS3		00158	580HP	08H+	0.72	0.45	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.86	0.35	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1+	1.90	0.69	0	<20	P 3
115	150	10/96	H	07H-VS3	07H-VS3		00265	580HP	08H+	0.84	0.93	0	<20	P 3
		10/96	H	BW1-VS2	BW1-VS2		00157	580HP	BW1+	1.78	0.47	0	<20	P 3
117	150	10/96	H	07H-VS3	09H-VS3		00158	580HP	BW1-	1.00	0.68	0	<20	P 3
119	150	10/96	H	07H-VS3	07H-VS3		00249	580HP	09H-	0.20	0.96	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00249	580HP	09H+	0.62	0.47	0	<20	P 3



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		10/96	H	07H-VS3	07H-VS3		00249	580HP	BW1-	1.68	0.82		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00249	580HP	BW1+	1.55	1.22		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00019	610VS	BW1+	1.82	0.58		0	20	P 2
123	150	10/96	H	07H-VS2	07H-VS2		00249	580HP	BW1+	1.56	0.66		0	<20	P 3
127	150	10/96	H	07H-VS3	07H-VS3		00249	580HP	VS1-	0.87	0.76		0	<20	P 3
62	151	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	1.78	0.42		0	<20	P 2
68	151	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	07H+	0.98	0.71		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	0.89	0.44		0	<20	P 2
74	151	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	1.05	0.43		0	<20	P 2
82	151	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	2.16	0.36		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	VS3-	0.74	0.92		0	22	P 2
86	151	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	1.93	0.38		0	<20	P 2
90	151	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.16	0.32		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00163	580HP	BW1-	1.90	0.95		0	<20	P 3
96	151	10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1+	1.98	0.72		0	<20	P 3
98	151	10/96	H	07H-VS3	07H-VS3		00163	580HP	08H-	0.05	0.70		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00163	580HP	BW1-	1.90	0.49		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00163	580HP	BW1+	1.97	1.67		0	25	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.15	0.51		0	<20	P 2
100	151	10/96	H	07H-VS3	07H-VS3		00164	580HP	08H+	0.75	0.45		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00164	580HP	BW1-	1.75	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS3-	0.86	0.90		106	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00164	580HP	VS3-	0.85	1.79		0	26	P 3
		10/96	C	TEC-TEH	TEC-TEH		00014	610VS	VS3-	0.71	1.38		132	22	P 2
		10/96	H	07H-VS3	07H-VS3		00164	580HP	VS3+	0.79	1.79		0	<20	P 3
102	151	10/96	H	07H-VS3	07H-VS3		00157	580HP	08H-	0.01	0.77		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00157	580HP	08H+	0.90	0.63		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1-	1.76	0.61		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1+	2.05	0.71		0	<20	P 3
104	151	10/96	H	07H-VS3	07H-VS3		00158	580HP	BW1-	1.75	1.08		0	<20	P 3
		10/96	H	07H-VS3	VS2-VS3		00158	580HP	VS2-	0.81	0.71		0	<20	P 3
110	151	10/96	H	07H-VS3	07H-VS3		00157	580HP	VS2+	0.62	0.53		0	<20	P 3
112	151	10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	0.61	0.00		0	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	0.61	0.82		.7	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	0.61	0.00		60	SVI	P 3
114	151	10/96	H	07H-VS3	07H-VS3		00157	580HP	BW1-	1.90	0.37		0	<20	P 3
118	151	10/96	H	07H-VS3	07H-VS3		00249	580HP	BW1-	0.13	0.34		0	<20	P 3
122	151	10/96	H	07H-VS2	07H-VS2		00251	580HP	BW1-	2.00	0.56		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00089	610VS	BW1+	1.96	0.37		0	<20	P 2
		10/96	H	07H-VS2	07H-VS2		00251	580HP	BW1+	2.00	1.16		0	<20	P 3
124	151	10/96	H	07H-VS2	07H-VS2		00249	580HP	BW1-	1.56	0.66		0	<20	P 3
79	152	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	0.99	0.43		0	<20	P 2
81	152	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H-	0.07	0.45		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	0.94	0.89		0	20	P 2
87	152	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	0.83	0.39		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

PAGE: 59 OF 66  
 DATE: 01/01/97  
 TIME: 09:42:37

		EXAM			EXAM EXTENT												
ROW	LIN	DATE		LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG	
		10/96		C	TEC-TEH	TEC-TEH		00153	610VS	BW1- 1.97	0.26		0	<20	P 2		
		10/96		C	TEC-TEH	TEC-TEH		00153	610VS	BW1+ 2.17	0.46		0	<20	P 2		
91	152	10/96		H	07H-VS3	07H-VS3		00163	580HP	BW1- 2.05	0.64		0	<20	P 3		
97	152	10/96		H	07H-VS3	07H-VS3		00158	580HP	BW1+ 2.05	1.63		0	25	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00015	610VS	BW1+ 2.12	0.63		0	<20	P 2		
99	152	10/96		H	07H-VS3	07H-VS3		00163	580HP	08H+ 0.88	0.39		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00163	580HP	BW1+ 1.89	1.59		0	24	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00014	610VS	BW1+ 2.00	0.49		0	<20	P 2		
101	152	10/96		H	07H-VS3	07H-VS3		00265	580HP	BW1- 1.54	0.77		0	<20	P 3		
103	152	10/96		H	07H-VS3	07H-VS3		00163	580HP	VS2+ 0.85	0.83		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00014	610VS	VS2+ 0.92	0.49		0	<20	P 2		
107	152	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+ 1.68	0.99		0	<20	P 3		
111	152	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+ 1.89	0.69		0	<20	P 3		
113	152	10/96		C	TEC-TEH	TEC-TEH		00015	610VS	BW1- 2.21	0.26		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	BW1- 1.82	0.52		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00015	610VS	BW1+ 1.96	0.26		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	BW1+ 1.96	0.62		0	<20	P 3		
115	152	10/96		C	TEC-TEH	TEC-TEH		00014	610VS	BW1- 1.82	0.37		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00265	580HP	BW1- 1.82	1.02		0	<20	P 3		
125	152	10/96		C	TEC-TEH	TEC-VS2		00090	610VS					OBS			
66	153	10/96		C	TEC-TEH	TEC-TEH		00153	610VS	08H- 0.97	0.43		0	<20	P 2		
70	153	10/96		C	TEC-TEH	TEC-TEH		00153	610VS	08H+ 1.05	0.35		0	<20	P 2		
76	153	10/96		C	TEC-TEH	TEC-TEH		00152	610LP	08H+ 0.93	0.35		0	<20	P 2		
78	153	10/96		C	TEC-TEH	TEC-TEH		00153	610VS	08H+ 0.91	0.48		0	<20	P 2		
82	153	10/96		C	TEC-TEH	TEC-TEH		00153	610VS	08H+ 1.08	0.49		0	<20	P 2		
90	153	10/96		C	TEC-TEH	TEC-TEH		00015	610VS	BW1- 2.10	0.25		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1- 1.95	0.87		0	<20	P 3		
92	153	10/96		C	TEC-TEH	TEC-TEH		00014	610VS	BW1+ 2.00	0.67		0	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	BW1+ 2.00	1.23		0	<20	P 3		
94	153	10/96		H	07H-VS3	07H-VS3		00169	580HP	BW1- 1.89	0.44		0	<20	P 3		
96	153	10/96		H	07H-VS3	07H-VS3		00171	580HP	BW1- 2.07	0.47		0	<20	P 3		
98	153	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+ 1.89	0.58		0	<20	P 3		
100	153	10/96		H	07H-VS3	07H-VS3		00168	580HP	09H+ 0.00	0.80		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	BW1- 1.26	0.91		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	BW1+ 1.50	0.69		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00168	580HP	VS2- 0.59	0.67		0	<20	P 3		
102	153	10/96		H	07H-VS3	07H-VS3		00169	580HP	BW1+ 1.99	0.86		0	<20	P 3		
104	153	10/96		C	TEC-TEH	TEC-TEH		00014	610VS	07H+ 0.03	0.45		87	<20	P 2		
		10/96		H	07H-VS3	07H-VS3		00171	580HP	08H- 0.07	0.57		0	<20	P 3		
106	153	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1+ 1.97	0.65		0	<20	P 3		
108	153	10/96		H	07H-VS3	07H-VS3		00168	580HP	08H- 0.17	0.68		0	<20	P 3		
112	153	10/96		H	07H-VS3	07H-VS3		00171	580HP	BW1- 1.80	0.46		0	<20	P 3		
		10/96		H	07H-VS3	07H-VS3		00171	580HP	BW1+ 1.84	0.57		0	<20	P 3		
114	153	10/96		H	07H-VS3	07H-VS3		00167	580HP	BW1- 2.01	0.58		0	<20	P 3		
		10/96		C	TEC-TEH	TEC-TEH		00015	610VS	BW1- 1.87	0.26		0	<20	P 2		



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 60 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	1	CH	CHNG
118	153	10/96	C	TEC-TEH	TEC-TEH			00019	610VS	TSC+ 6.05	0.37		140	<20	1	
25	154	10/96	C	TEC-TEH	TEC-BW2			00158	610LF					OBS		
55	154	10/96	C	TEC-TEH	TEC-TEH			00153	610VS	VS5- 0.78	0.44		0	<20	P 2	
67	154	10/96	H	08H-08H	08H-BW1	1		00496	580HP	08H+ 0.83	0.80		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00153	610VS	08H+ 1.26	0.48		0	<20	P 2	
71	154	10/96	C	TEC-TEH	TEC-TEH			00153	610VS	08H- 0.95	2.77		0	41	P 2	
		10/96	H	08H-08H	08H-08H			00469	580HP	08H- 0.95	3.19		0	40	P 3	
93	154	10/96	H	07H-VS3	07H-VS3			00171	580HP	BW1+ 1.95	0.67		0	<20	P 3	
95	154	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1- 1.73	0.94		0	<20	P 3	
97	154	10/96	H	07H-VS3	07H-VS3			00168	580HP	BW1- 1.85	0.85		0	<20	P 3	
99	154	10/96	H	07H-VS3	07H-VS3			00169	580HP	BW1+ 1.89	0.88		0	<20	P 3	
103	154	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1- 1.87	0.78		0	<20	P 3	
107	154	10/96	H	07H-VS3	07H-BW1			00169	580HP	08H- 0.28	0.56		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00265	580HP	08H- 0.15	0.65		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00265	580HP	08H+ 0.78	0.64		0	<20	P 3	
109	154	10/96	H	07H-VS3	07H-VS3			00171	580HP	BW1+ 1.81	0.70		0	<20	P 3	
111	154	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1+ 1.57	0.58		0	<20	P 3	
113	154	10/96	H	07H-VS3	07H-VS3			00168	580HP	VS2- 0.98	0.55		0	<20	P 3	
115	154	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1- 1.77	0.86		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00167	580HP	VS2- 0.86	0.47		0	<20	P 3	
117	154	10/96	H	07H-VS3	07H-VS3			00168	580HP	09H+ 1.00	0.55		0	<20	P 3	
50	155	10/96	C	TEC-TEH	TEC-TEH			00153	610VS	VS4+ 0.94	1.03		0	24	P 2	
66	155	10/96	C	TEC-TEH	TEC-TEH			00153	610VS	08H+ 1.03	0.55		0	<20	P 2	
72	155	10/96	C	TEC-TEH	TEC-TEH			00152	610LF	VS3- 0.79	0.60		0	<20	P 2	
80	155	10/96	C	TEC-TEH	TEC-TEH			00152	610LF	08H+ 1.01	0.31		0	<20	P 2	
84	155	10/96	H	VS3-VS3	VS3-VS3			00278	580HP	VS3- 1.10	2.56		0	33	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00152	610LF	VS3- 0.82	2.14		0	35	P 2	
		10/96	C	TEC-TEH	TEC-TEH			00152	610LF	VS5+ 0.65	1.54		0	29	P 2	
88	155	10/96	C	TEC-TEH	TEC-TEH			00180	610LF	BW1+ 1.85	0.63		0	<20	P 2	
		10/96	H	BW1-BW1	BW1-BW1			00278	580HP	BW1+ 1.93	1.51		0	22	P 3	
92	155	10/96	H	07H-VS3	07H-VS3			00169	580HP	BW1+ 1.88	0.71		0	<20	P 3	
96	155	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1- 1.88	0.45		0	<20	P 3	
100	155	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	08H- 0.93	0.36		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3			00168	580HP	08H+ 0.95	0.81		0	<20	P 3	
		10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1- 2.15	0.20		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3			00168	580HP	BW1- 2.02	0.76		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00168	580HP	BW1+ 1.24	0.66		0	<20	P 3	
102	155	10/96	H	07H-VS3	07H-VS3			00169	580HP	08H- 0.07	0.64		0	<20	P 3	
106	155	10/96	H	07H-VS3	07H-VS3			00167	580HP	08H- 0.13	0.70		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00167	580HP	08H+ 0.84	0.57		0	<20	P 3	
		10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1+ 1.88	0.64		0	<20	P 3	
108	155	10/96	H	07H-VS3	07H-VS3			00168	580HP	BW1+ 1.93	0.79		0	<20	P 3	
112	155	10/96	C	TEC-TEH	TEC-TEH			00015	610VS	BW1- 2.03	0.29		0	<20	P 2	
		10/96	H	07H-VS3	07H-VS3			00171	580HP	BW1- 1.78	0.96		0	<20	P 3	
114	155	10/96	H	07H-VS3	07H-VS3			00167	580HP	BW1- 1.75	0.63		0	<20	P 3	



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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DATE: 01/01/97

TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	+	CH	CHNG
71	156	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	1.05	0.37		0	<20	P 2
75	156	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	0.97	0.34		0	<20	P 2
79	156	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	0.93	0.37		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	2.16	0.36		0	<20	P 2
83	156	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	0.93	0.54		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	2.25	0.27		0	<20	P 2
91	156	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	1.89	0.30		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00169	580HP	BW1+	1.90	1.01		0	<20	P 3
97	156	10/96	H	07H-VS3	07H-VS3		00168	580HP	BW1-	1.75	0.51		0	<20	P 3
103	156	10/96	H	07H-VS3	07H-VS3		00167	580HP	08H+	0.80	0.68		0	<20	P 3
107	156	10/96	H	07H-VS3	07H-VS3		00169	580HP	08H+	0.68	0.52		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	0.93	0.37		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00169	580HP	BW1+	1.98	1.09		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.00	0.39		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00169	580HP	VS2-	0.80	0.47		0	<20	P 3
111	156	10/96	H	07H-VS3	07H-VS3		00167	580HP	08H+	0.85	1.47		0	<24	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	1.01	0.51		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.00	0.37		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00167	580HP	BW1-	1.90	1.35		0	<23	P 3
		10/96	H	07H-VS3	07H-VS3		00167	580HP	BW1+	1.98	1.00		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1+	2.00	0.31		0	<20	P 2
113	156	10/96	H	07H-VS3	07H-VS3		00168	580HP	BW1-	2.15	0.61		0	<20	P 3
117	156	10/96	H	07H-VS3	07H-VS3		00168	580HP	08H+	0.62	0.76		0	<20	P 3
66	157	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	0.91	0.66		0	<20	P 2
76	157	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	1.04	0.33		0	<20	P 2
82	157	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	VS5+	0.91	0.61		0	<20	P 2
90	157	10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1+	1.43	0.74		0	<20	P 3
92	157	10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	1.77	0.44		0	<20	P 3
94	157	10/96	H	07H-VS3	08H-VS3		00173	580HP	08H+	0.65	0.65		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00015	610VS	08H+	1.00	0.30		0	<20	P 2
96	157	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.93	0.48		0	<20	P 3
100	157	10/96	H	07H-VS3	08H-VS3		00176	580HP	08H-	0.08	0.58		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	2.51	0.98		0.4	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	2.51	1.10		0.4	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	2.51	140.0		83	SVI	P 3
102	157	10/96	H	07H-VS3	07H-VS3		00265	580HP	08H+	0.91	0.71		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	1.30	0.23		0	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	1.30	0.73		.8	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00265	580HP	BW1+	1.30	159.0		46	SVI	P 3
108	157	10/96	H	07H-VS3	07H-VS3		00171	580HP	BW1+	1.77	0.87		0	<20	P 3
110	157	10/96	H	07H-VS3	07H-VS3		00169	580HP	BW1+	2.00	0.57		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00169	580HP	VS2-	0.77	0.60		0	<20	P 3
116	157	10/96	H	07H-VS3	07H-VS3		00168	580HP	09H-	1.06	0.59		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00168	580HP	BW1-	1.88	0.41		0	<20	P 3
118	157	10/96	C	TEC-TEH	TEC-TEH		00090	610VS	04C-	1.02	0.52		0	<20	P 2



## CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
 OUTAGE DATA SET : CURRENT  
 SELECTION VARIABLES: Percent

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 DATE: 01/01/97  
 TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
87	158	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	BW1+	1.86	0.43	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00153	610VS	VS2-	0.71	0.34	0	<20	P 2
91	158	10/96	C	TEC-TEH	TEC-TEH		00015	610VS	BW1-	2.16	0.20	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1+	0.38	0.71	0	<20	P 3
93	158	10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	1.94	0.54	0	<20	P 3
97	158	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.92	0.42	0	<20	P 3
99	158	10/96	H	07H-VS3	07H-VS3		00175	580HP	VS2-	0.96	0.48	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	VS2-	0.92	0.47	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00060	610VS	VS2+	0.83	0.33	0	<20	P 2
101	158	10/96	H	07H-VS3	07H-VS3		00176	580HP	08H+	0.90	0.50	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00059	610VS	08H+	1.06	0.50	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1-	1.78	0.55	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	1.82	0.42	0	<20	P 3
105	158	10/96	H	07H-VS3	07H-VS3		00174	580HP	08H+	0.99	0.74	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1+	0.67	1.19	0	21	P 3
107	158	10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1+	2.07	0.77	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00175	580HP	VS2+	0.00	0.52	0	<20	P 3
113	158	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.75	0.50	0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1+	1.75	0.72	0	<20	P 3
117	158	10/96	H	07H-VS3	07H-08H		00174	580HP	08H+	0.65	0.63	0	<20	P 3
		10/96	H	07H-VS3	08H-VS3		00174	580HP	08H+	0.74	0.59	0	<20	P 3
		10/96	H	07H-VS3	08H-VS3		00174	580HP	BW1+	1.75	0.58	0	<20	P 3
36	159	10/96	C	TEC-TEH	TEC-TEH		00107	610VS	TSC+	5.98	3.64	5	BLI	1
40	159	10/96	C	TEC-TEH	TEC-TEH		00158	610LF	VS4+	0.91	0.51	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TSH		00107	610VS	VS4+	0.98	0.52	0	<20	P 2
66	159	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	08H+	1.17	0.75	0	<20	P 2
70	159	10/96	C	TEC-TEH	TEC-TEH		00153	610VS	VS5+	0.93	0.44	0	<20	P 2
80	159	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	VS5+	0.86	0.66	0	<20	P 2
88	159	10/96	C	TEC-TEH	TEC-TEH		00152	610LF	08H+	1.01	0.57	0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00152	610LF	BW1+	1.92	0.58	0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1		00278	580HP	BW1+	2.02	1.52	0	22	P 3
90	159	10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1-	2.00	0.57	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00013	610VS	BW1-	1.97	0.24	0	<20	P 2
92	159	10/96	H	07H-VS3	07H-VS3		00176	580HP	08H+	0.94	0.58	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00012	610VS	08H+	1.02	0.59	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1+	1.81	0.83	0	<20	P 3
96	159	10/96	H	07H-VS3	07H-VS3		00176	580HP	08H+	0.97	0.56	0	<20	P 3
98	159	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H+	0.00	0.24	0	<20	P 2
102	159	10/96	H	07H-VS3	07H-VS3		00175	580HP	08H-	0.25	0.77	0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H-	0.11	0.25	0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1-	1.99	0.75	0	<20	P 3
106	159	10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.00	0.48	0.6	SVI	P 2
		10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.00	0.87	0.8	SVI	P 3
		10/96	H	07H-VS3	07H-VS3		00173	580HP	BW1+	2.00	88.00	93	SVI	P 3
108	159	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1+	1.75	0.79	0	<20	P 3



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 63 OF 66  
DATE: 01/01/97  
TIME: 09:42:37

ROW	EXAM LIN	DATE	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	†	CH	CHNG
110	159	10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1+	1.78	0.53		0	<20	P 3
112	159	10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1-	1.79	0.77		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00092	610VS	VS3-	0.84	0.57		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00176	580HP	VS3-	0.81	0.62		0	<20	P 3
116	159	10/96	H	07H-VS3	08H-VS3		00174	580HP	BW1-	1.75	0.58		0	<20	P 3
		10/96	H	07H-VS3	08H-VS3		00174	580HP	BW1+	1.75	1.05		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00092	610VS	BW1+	1.93	0.38		0	<20	P 2
97	160	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.89	0.66		0	<20	P 3
99	160	10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1+	1.97	1.21		0	21	P 3
		10/96	C	TEC-TEH	TEC-TEH		00013	610VS	BW1+	2.09	0.40		0	<20	P 2
101	160	10/96	H	07H-VS3	07H-VS3		00176	580HP	08H-	0.09	0.63		0	<20	P 3
		10/96	H	07H-VS3	07H-VS3		00176	580HP	BW1-	1.89	0.48		0	<20	P 3
105	160	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1-	1.79	0.92		0	<20	P 3
107	160	10/96	C	TEC-TEH	TEC-TEH		00091	610VS	BW1-	2.24	0.50		0	<20	P 2
		10/96	H	07H-VS3	07H-VS3		00175	580HP	BW1-	1.91	0.92		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00091	610VS	VS2-	0.87	0.46		0	<20	P 2
113	160	10/96	H	07H-VS3	07H-VS3		00174	580HP	BW1+	1.99	0.71		0	<20	P 3
64	161	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.80	0.38		0	<20	P 2
88	161	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	0.94	0.58		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.75	0.41		0	<20	P 2
		10/96	H	BW1-BW1	BW1-BW1		00278	580HP	BW1+	2.12	1.40		0	21	P 3
94	161	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H+	0.97	0.32		0	<20	P 2
98	161	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H+	0.94	0.41		0	<20	P 2
102	161	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H+	0.99	0.37		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00013	610VS	BW1+	1.93	0.38		0	<20	P 2
112	161	10/96	C	TEC-TEH	TEC-TEH		00092	610VS	VS2-	0.83	0.35		0	<20	P 2
73	162	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	0.86	0.44		0	<20	P 2
81	162	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1-	1.87	0.17		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.81	0.30		0	<20	P 2
85	162	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	1.01	0.72		0	<20	P 2
89	162	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	1.08	0.36		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1-	1.77	0.33		0	<20	P 2
91	162	10/96	H	BW1-BW1	BW1-BW1	5	00290	580HP	BW1+	1.72	1.14		0.4	SVI	P 2
		10/96	H	BW1-BW1	BW1-BW1	5	00290	580HP	BW1+	1.72	1.66		0.4	SVI	P 3
		10/96	H	BW1-BW1	BW1-BW1	5	00290	580HP	BW1+	1.72	71.00		75	SVI	P 3
		10/96	H	BW1-BW1	BW1-BW1	5	00290	580HP	BW1+	1.83	0.32		0	<20	P 3
		10/96	C	TEC-TEH	TEC-TEH		00013	610VS	BW1+	1.92	0.81		0	22	P 2
70	163	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	VS5+	0.90	0.69		0	<20	P 2
76	163	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	0.98	0.44		0	<20	P 2
84	163	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	VS3-	0.84	0.52		0	<20	P 2
		10/96	C	TEC-TEH	TEC-TEH		00150	610LF	VS5+	0.95	0.44		0	<20	P 2
88	163	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	1.03	0.49		0	<20	P 2
90	163	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	08H+	0.91	0.94		0	24	P 2
92	163	10/96	H	08H-08H	08H-08H		00175	580HP	08H+	0.84	1.10		0	20	P 3
17	164	10/96	C	TEC-TEH	TEC-TEH		00103	610VS	VS4-	0.83	0.37		0	<20	P 2



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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ROW	EXAM	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
91	164	10/96	C	TEC-TEH	TEC-TEH		00012	610VS	08H+	0.94	0.41	0	<20	P 2	
44	165	10/96	C	TEC-TEH	TEC-TEH		00102	610VS	VS4-	0.82	0.48	0	<20	P 2	
66	165	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	08H+	0.94	0.74	0	<20	P 2	
72	165	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	VS3-	0.84	0.77	0	<20	P 2	
86	165	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	08H+	1.02	0.55	0	<20	P 2	
88	165	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.77	0.58	0	<20	P 2	
106	165	10/96	H	TSH-TSH	TSH-TSH		00031	610HP	TSH+	0.02	0.13	0.3	SCI	P 2	
		10/96	H	TSH-TSH	TSH-TSH		00031	610HP	TSH+	0.02	0.51	0.2	SCI	P 4	
		10/96	H	TSH-TSH	TSH-TSH		00031	610HP	TSH+	0.02	6.00	25	SCI	P 4	
71	166	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	08H+	1.02	0.35	0	<20	P 2	
87	166	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	BW1+	2.23	0.32	0	<20	P 2	
44	167	10/96	C	TEC-TEH	TEC-TEH		00102	610VS	07H+	0.97	0.52	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00102	610VS	VS4-	0.79	0.49	0	<20	P 2	
76	167	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	VS3+	0.86	1.02	0	23	P 2	
80	167	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	08H+	0.90	0.46	0	<20	P 2	
88	167	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.78	0.36	0	<20	P 2	
90	167	10/96	C	TEC-TEH	TEC-TEH		00013	610VS	04H+	0.48	0.26	0	<20	P 2	
77	168	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	VS3-	0.93	0.62	0	<20	P 2	
89	168	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.79	0.29	0	<20	P 2	
8	169	10/96	C	TEC-TEH	TEC-TEH		00100	610VS	BW1-	1.75	0.68	0	<20	P 2	
36	169	10/96	C	TEC-TEH	TEC-TEH		00101	610VS	06H+	1.00	0.30	0	<20	P 2	
66	169	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	08H+	0.86	1.29	0	28	P 2	
		10/96	H	08H-08H	08H-08H		00278	580HP	08H+	0.97	1.59	0	23	P 3	
82	169	10/96	C	TEC-TEH	TEC-TEH		00151	610VS	08H+	0.95	0.39	0	<20	P 2	
88	169	10/96	C	TEC-TEH	TEC-TEH		00150	610LF	BW1+	1.75	0.39	0	<20	P 2	
25	170	10/96	C	TEC-TEH	TEC-BW2		00158	610LF					OBS		
		10/96	C	TEC-TEH	TEC-BW2		00181	580VS					OBS		
81	170	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	1.86	0.27	0	<20	P 2	
66	171	10/96	C	TEC-TEH	TEC-TEH		00149	610VS	08H-	1.06	0.80	0	<20	P 2	
72	171	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	2.00	0.16	0	<20	P 2	
86	171	10/96	C	TEC-TEH	TEC-TEH		00177	610VS	VS5-	0.87	0.79	0	20	P 2	
11	172	10/96	H	06H-07H	06H-07H	1	00487	580HP	06H+	0.99	0.60	.4	SVI	P 2	
		10/96	H	06H-07H	06H-07H	1	00487	580HP	06H+	0.99	1.29	.3	SVI	P 3	
		10/96	H	06H-07H	06H-07H	1	00487	580HP	06H+	0.99	79.00	58	SVI	P 3	
51	172	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	1.77	0.22	0	<20	P 2	
63	172	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	VS5-	0.74	0.37	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00148	610LF	VS5+	0.80	0.69	0	<20	P 2	
65	172	10/96	C	TEC-TEH	TEC-TEH		00149	610VS	08H-	0.09	0.48	0	<20	P 2	
71	172	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	1.82	0.12	0	<20	P 2	
75	172	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1-	1.93	0.23	0	<20	P 2	
		10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	1.79	0.26	0	<20	P 2	
81	172	10/96	C	TEC-TEH	TEC-TEH		00177	610VS	VS3+	0.27	0.37	0	<20	P 2	
52	173	10/96	C	TEC-TEH	TEC-TEH		00148	610LF	BW1+	1.79	0.24	0	<20	P 2	
62	173	10/96	H	04H-05H	04H-05H	1	00487	580HP	04H+	12.69	0.00	0	SVI	P 2	
		10/96	H	04H-05H	04H-05H	1	00487	580HP	04H+	12.69	0.35	.4	SVI	P 3	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
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ROW	EXAM	LEG	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
	10/96	H	04H-05H	04H-05H	1	00487	580HP	04H+ 12.69	0.00		43	SVI	P 3	
70	173	10/96	H	BW1-VS3	BW1-VS3	5	00487	580HP BW1- 1.79	0.54		0	<20	P 3	
	10/96	H	BW1-VS3	BW1-VS3	5	00487	580HP BW1+ 1.81	1.23			0	<20	P 3	
	10/96	C	TEC-TEH	TEC-TEH		00149	610VS BW1+ 2.25	0.40			0	<20	P 2	
78	173	10/96	C	TEC-TEH	TEC-TEH		00177	610VS BW1- 1.79	0.23		0	<20	P 2	
80	173	10/96	C	TEC-TEH	TEC-TEH		00176	610LF VS5+ 0.86	0.82		0	20	P 2	
13	174	10/96	C	TEC-TEH	TEC-TEH		00101	610VS BW1- 1.95	0.16		0	<20	P 2	
68	175	10/96	C	TEC-TEH	TEC-TEH		00148	610LF VS3+ 0.98	0.52		0	<20	P 2	
70	175	10/96	C	TEC-TEH	TEC-TEH		00148	610LF BW1+ 1.79	0.16		0	<20	P 2	
72	175	10/96	C	TEC-TEH	TEC-TEH		00177	610VS BW1+ 1.91	0.25		0	<20	P 2	
77	176	10/96	C	TEC-TEH	TEC-TEH		00177	610VS 02C+ 11.37	0.58		23	BLI	P 1	
	10/96	C	TEC-TEH	TEC-TEH		00177	610VS 01C+ 24.52	2.47			9	BLI	P 1	
8	177	10/96	C	TEC-TEH	TEC-BW2		00158	610LF				OBS		
76	177	10/96	C	TEC-TEH	TEC-TEH		00176	610LF 05C+ 0.00	0.80		0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00176	610LF 03C- 0.96	0.64			0	<20	P 2	
4	179	10/96	C	TEC-TEH	TEC-07C		00175	610LF				OBS		
8	179	10/96	C	TEC-TEH	TEC-BW2		00158	610LF				OBS		
48	179	10/96	C	TEC-TEH	TEC-TEH		00148	610LF BW2+ 1.91	0.30		0	<20	P 2	
56	179	10/96	C	TEC-TEH	TEC-TEH		00148	610LF BW1+ 1.82	0.21		0	<20	P 2	
62	181	10/96	C	TEC-TEH	TEC-TEH		00177	610VS BW1+ 2.07	0.14		0	<20	P 2	
64	181	10/96	C	TEC-TEH	TEC-TEH		00176	610LF BW2+ 2.00	0.28		0	<20	P 2	
49	182	10/96	C	TEC-TEH	TEC-TEH		00177	610VS BW1+ 1.98	0.15		0	<20	P 2	
8	183	10/96	C	TEC-TEH	TEC-TEH		00096	610VS 03C+ 0.92	0.38		0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00095	610VS 03C+ 0.92	0.38			0	<20	P 2	
36	185	10/96	H	06H-07H	06H-07H	1	00487	580HP 06H+ 17.04	0.33		.3	SVI	P 2	
	10/96	H	06H-07H	06H-07H	1	00487	580HP 06H+ 17.04	0.54			.3	SVI	P 3	
	10/96	H	06H-07H	06H-07H	1	00487	580HP 06H+ 17.04	54.00			105	SVI	P 3	
6	187	10/96	C	TEC-TEH	TEC-TEH		00160	610VS 05C- 1.03	0.57		0	<20	P 2	
8	187	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 04C+ 0.02	0.41		0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 03C- 0.98	0.88			0	<20	P 2	
10	187	10/96	C	TEC-TEH	TEC-TEH		00160	610VS 02C- 0.91	0.67		0	<20	P 2	
8	189	10/96	H	TSH-TSH	TSH-TSH		00076	600HP TSH- 0.04	0.26		0.4	SCI	P 2	
	10/96	H	TSH-TSH	TSH-TSH		00076	600HP TSH- 0.04	0.80			0.3	SCI	P 4	
	10/96	H	TSH-TSH	TSH-TSH		00076	600HP TSH- 0.04	0.90			23	SCI	P 4	
10	189	10/96	C	TEC-TEH	TEC-TEH		00160	610VS BW2+ 1.75	0.23		0	<20	P 2	
12	189	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 05H- 0.99	0.41		0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 05C+ 0.07	1.95			0	31	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 03C+ 0.80	0.50			0	<20	P 2	
	10/96	C	TEC-TEH	TEC-TEH		00159	610VS 03C- 0.14	0.84			0	<20	P 2	



CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
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SELECTION VARIABLES: Percent

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NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 1575  
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 2919

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: MAI,MCI,MMI,SAI,SCI,BLI,MVI,SVI,OBS, 0 to 100%

REPORT OPTIONS:

Only examination results matching criteria are included



APPENDIX D

SUMMARY DATA SHEETS PLP



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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TIME: 09:34:50

ROW	EXAM	DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
12	1	10/96		C	01C-01C	01C-01C	1	00195	580HP	01C+	0.99	1.27		.5	PLI	P 2	
		10/96		C	01C-01C	01C-01C	1	00195	580HP	01C+	0.99	0.66		.6	PLI	P 3	
		10/96		C	01C-01C	01C-01C	1	00195	580HP	01C+	0.99	152.0		131	PLI	P 3	
		10/96		C	01C-01C	01C-01C	1	00195	580HP	01C+	0.71	0.22		0	PLP	8	
147	128	10/96		H	01H-02H	01H-02H	1	00117	600HP	01H+	1.78	0.83		0	PLP	8	
		10/96		C	TEC-TEH	TEC-TEH		00077	610VS	01H+	2.03	1.05		183	PLP	8	

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 2  
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 6

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:  
Percent: PLI, PLP

REPORT OPTIONS:  
Only examination results matching criteria are included



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

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DATE: 01/01/97  
TIME: 09:52:32

ROW	LIN	EXAM DATE	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
129	136	10/96	C	TSC-01C	TSC-01C	1		00249	600HP	TSC+	0.43	1.16		0	PLP	8
128	137	10/96	C	TSC-01C	TSC-01C	1		00249	600HP	TSC+	0.90	1.91		0	PLP	8
130	137	10/96	C	TEC-01C	TEC-01C	1		00248	600HP	TSC+	1.04	0.75		0	PLP	8
129	138	10/96	C	TEC-01C	TEC-01C	1		00248	600HP	TSC+	1.17	1.98		0	PLP	8
131	138	10/96	C	TEC-01C	TEC-01C	1		00248	600HP	TSC+	1.37	1.05		0	PLP	8
132	139	10/96	C	TEC-01C	TEC-01C	1		00248	600HP	TSC+	1.61	1.45		0	PLP	8
131	140	10/96	C	TEC-01C	TEC-01C	1		00248	600HP	TSC+	1.73	2.11		0	PLP	8
133	140	10/96	C	TSC-01C	TSC-01C	1		00238	600HP	TSC+	1.56	8.27		0	PLP	7
132	141	10/96	C	TSC-01C	TSC-01C	1		00238	600HP	TSC+	1.78	8.58		0	PLP	7
134	141	10/96	C	TSC-01C	TSC-01C	1		00227	600HP	TSC+	1.92	6.29		0	PLP	7
133	142	10/96	C	TSC-01C	TSC-01C	1		00227	600HP	TSC+	1.93	12.63		0	PLP	7
135	142	10/96	C	TEC-TEH	TEC-TEH			00090	610VS	TSC+	2.32	3.52	116	PLP	8	
		10/96	C	TSC-01C	TSC-01C	1		00227	600HP	TSC+	1.91	0.38		0	PLI	P 4
134	143	10/96	C	TSC-01C	TSC-01C	1		00227	600HP	TSC+	2.19	10.48		0	PLP	7
136	143	10/96	C	TSC-01C	TSC-01C	1		00226	600HP	TSC+	2.23	0.51		22	PLI	P 3
		10/96	C	TSC-01C	TSC-01C	1		00226	600HP	TSC+	0.03	6.18		0	PLP	7
135	144	10/96	C	TEC-TEH	TEC-TEH			00090	610VS	TSC+	2.75	2.11	124	PLP	8	
		10/96	C	TSC-01C	TSC-01C	1		00226	600HP	TSC+	2.39	5.94		0	PLP	7
		10/96	C	TSC-01C	TSC-01C			00226	600HP	TSC+	0.01	0.63		0	PLI	P 3
		10/96	C	TSC-01C	TSC-01C	1		00226	600HP	TSC+	0.00	11.56		0	PLP	7
117	156	10/96	C	TEC-TEH	TEC-TEH			00090	610VS	TSC+	12.96	1.78		85	PLP	8
119	156	10/96	C	TEC-TEH	TEC-TEH			00090	610VS	TSC+	12.99	0.79		168	PLP	8

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 17  
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 22

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: PLI, PLP

REPORT OPTIONS:

Only examination results matching criteria are included



APPENDIX E

TUBE PLUG MAP



OUTAGE/YEAR	STEAM GENERATOR 11		STEAM GENERATOR 12	
	NUMBER OF PLUGS	%BOBBIN EXAMINED	NUMBER OF PLUGS	%BOBBIN EXAMINED
FACTORY 6/78	4	NA	20	NA
BASELINE 8/81	4	NA	6	NA
1987 (CORNERS)	20	32	14	31
U1R1	11	21	1	34
U1R2	12	100	8	100
U1R3	23	37	18	100
U1R4	56	100	126	100
U1R5	39	100	109	100
U1R6	52	100	104	100
TOTAL	221		406	



# 10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR: 11  
OUTAGE DATA SET : CURRENT  
Percent: TBP

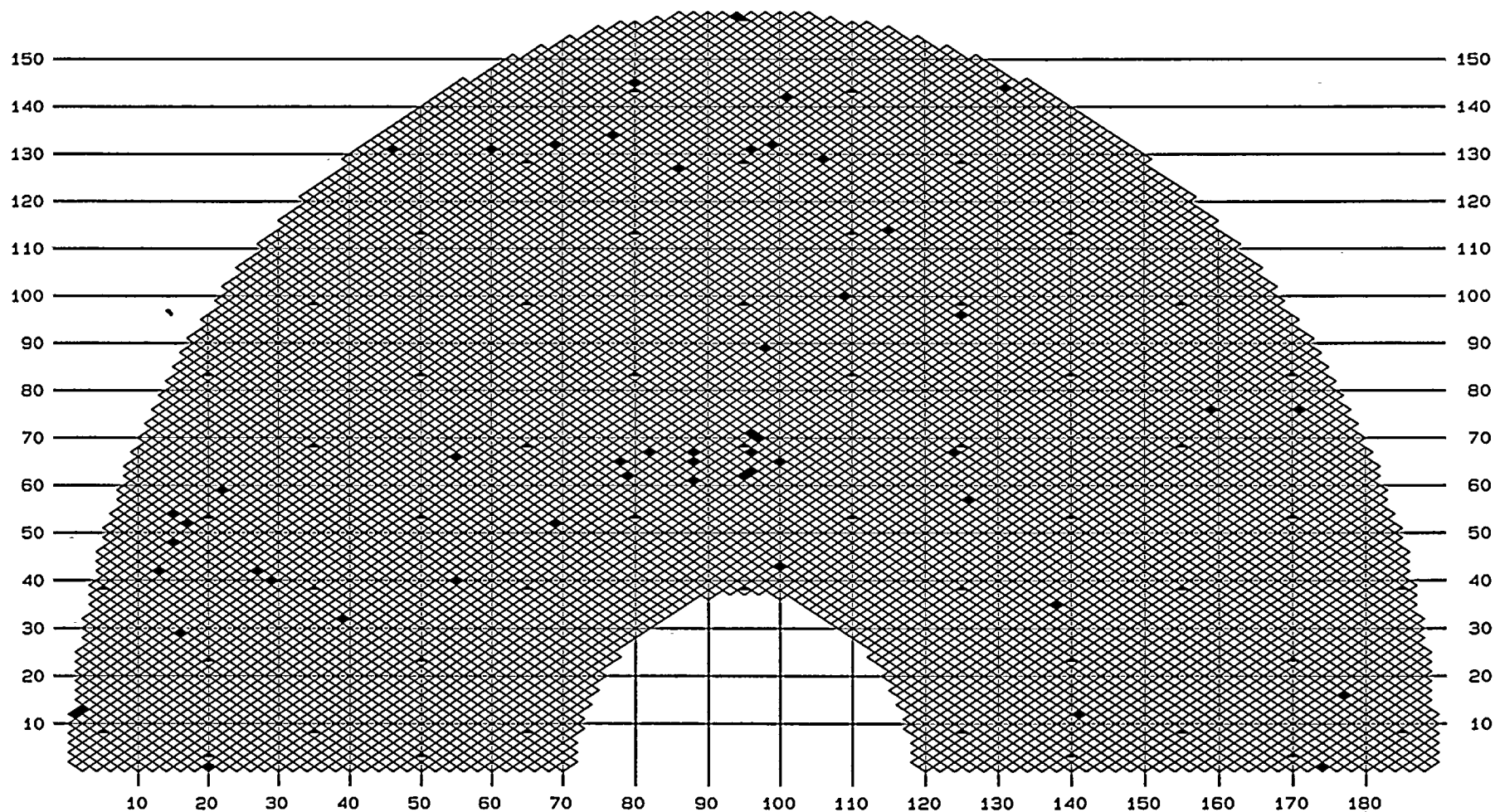
DATE: 01/01/97  
TIME: 09: 37: 24

STAYS

PLUGGED

0 x TBP

52 ♦



ROCKRIDGE TECHNOLOGIES



10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

```
STEAM GENERATOR: 12
OUTAGE DATA SET   : CURRENT
Percent: TBP
```

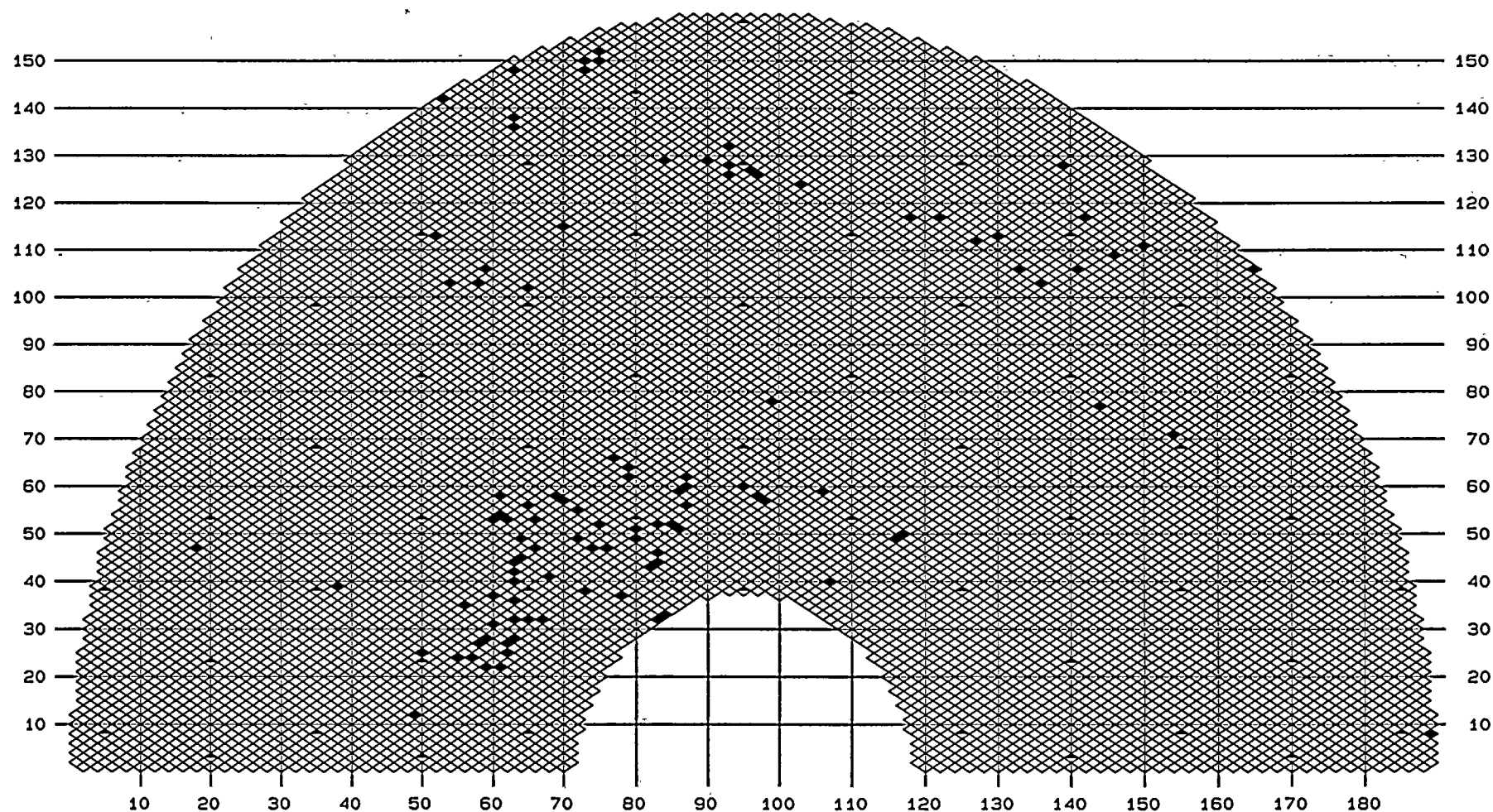
DATE: 01/01/97  
TIME: 09:55:23

## STAYS

**PLUGGED**

0 X TBP

104 ◆



**ROCKRIDGE TECHNOLOGIES**



APPENDIX F

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 85072
2. PLANT PALO VERDE NUCLEAR GENERATING STATION  
ADDRESS 5801 SOUTH WINTERSBURG ROAD, TONOPAH, ARIZONA 85354
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



# APS

## NIS-1 BACK

### OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 10/3/96 TO 10/20/96
8. INSPECTION INTERVAL FROM 1/28/86 TO 3/17/97
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL

In Steam Generator 11 100% of the tubes were examined full length with the bobbin coil. 100% of the tubing was examined at the top of the hot leg tubesheet using RC. Approximately 1000 tubes were examined at the top of the cold leg tubesheet using RC. Approximately 2500 tubes were examined 07H-2nd VS using RC. Four expansions were performed. The number of tubes and description of expansions are located in Table 1 of this report.

In Steam Generator 12 100% of the tubes were examined full length with the bobbin coil. 100% of the tubing was examined at the top of the hot leg tubesheet using RC. Approximately 1000 tubes were examined at the top of the cold leg tubesheet using RC. Approximately 2500 tubes were examined 07H-2nd VS using RC. Six expansions were performed. The number of tubes and description of expansions are located in Table 1 of this report.

Several degraded/defective tubes were observed during testing and they are documented in Appendix C and D of this report. The tubes identified on the following pages were plugged as a result of this examination.

# OF TUBES PLUGGED - SG 11 = 52, SG 12 = 104

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 5-8-97 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Alan Morrow

### 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 HSB & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 10-3-96 TO 10-20-96, 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 Paul A. Byrd

COMMISSIONS NB 9685 "N" "I" Az. 264

DATE 5-8-97

NATL' BOARD, STATE, PROVINCE



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 1 OF 2  
DATE: 01/01/97  
TIME: 09:37:24

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
12	1	10/96		H	-	-	-	-	00000							TBP	
13	2	10/96		H	-	-	-	-	00000							TBP	
42	13	10/96		H	-	-	-	-	00000							TBP	
48	15	10/96		H	-	-	-	-	00000							TBP	
54	15	10/96		H	-	-	-	-	00000							TBP	
29	16	10/96		H	-	-	-	-	00000							TBP	
52	17	10/96		H	-	-	-	-	00000							TBP	
1	20	10/96		H	-	-	-	-	00000							TBP	
59	22	10/96		H	-	-	-	-	00000							TBP	
42	27	10/96		H	-	-	-	-	00000							TBP	
40	29	10/96		H	-	-	-	-	00000							TBP	
32	39	10/96		H	-	-	-	-	00000							TBP	
131	46	10/96		H	-	-	-	-	00000							TBP	
40	55	10/96		H	-	-	-	-	00000							TBP	
66	55	10/96		H	-	-	-	-	00000							TBP	
131	60	10/96		H	-	-	-	-	00000							TBP	
52	69	10/96		H	-	-	-	-	00000							TBP	
132	69	10/96		H	-	-	-	-	00000							TBP	
134	77	10/96		H	-	-	-	-	00000							TBP	
65	78	10/96		H	-	-	-	-	00000							TBP	
62	79	10/96		H	-	-	-	-	00000							TBP	
145	80	10/96		H	-	-	-	-	00000							TBP	
67	82	10/96		H	-	-	-	-	00000							TBP	
127	86	10/96		H	-	-	-	-	00000							TBP	
61	88	10/96		H	-	-	-	-	00000							TBP	
65	88	10/96		H	-	-	-	-	00000							TBP	
67	88	10/96		H	-	-	-	-	00000							TBP	
159	94	10/96		H	-	-	-	-	00000							TBP	
62	95	10/96		H	-	-	-	-	00000							TBP	
63	96	10/96		H	-	-	-	-	00000							TBP	
67	96	10/96		H	-	-	-	-	00000							TBP	
71	96	10/96		H	-	-	-	-	00000							TBP	
131	96	10/96		H	-	-	-	-	00000							TBP	
70	97	10/96		H	-	-	-	-	00000							TBP	
89	98	10/96		H	-	-	-	-	00000							TBP	
132	99	10/96		H	-	-	-	-	00000							TBP	
43	100	10/96		H	-	-	-	-	00000							TBP	
65	100	10/96		H	-	-	-	-	00000							TBP	
142	101	10/96		H	-	-	-	-	00000							TBP	
129	106	10/96		H	-	-	-	-	00000							TBP	
100	109	10/96		H	-	-	-	-	00000							TBP	
114	115	10/96		H	-	-	-	-	00000							TBP	
67	124	10/96		H	-	-	-	-	00000							TBP	
96	125	10/96		H	-	-	-	-	00000							TBP	
57	126	10/96		H	-	-	-	-	00000							TBP	



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 11  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 2 OF 2  
DATE: 01/01/97  
TIME: 09:37:24

ROW	LIN	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
144	131	10/96		H	-	-	-	-	00000							TBP	
35	138	10/96		H	-	-	-	-	00000							TBP	
12	141	10/96		H	-	-	-	-	00000							TBP	
76	159	10/96		H	-	-	-	-	00000							TBP	
76	171	10/96		H	-	-	-	-	00000							TBP	
1	174	10/96		H	-	-	-	-	00000							TBP	
16	177	10/96		H	-	-	-	-	00000							TBP	

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 52  
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 52

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:  
Percent: TBP

REPORT OPTIONS:  
Only examination results matching criteria are included

MAP OPTIONS:  
Plot Variable = Indication Codes  
Plot data from current examination only



CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 1 OF 3  
DATE: 01/01/97  
TIME: 09:55:23

		EXAM	EXAM EXTENT				CAL	PROBE	LOCATION	VOLTS	MIL	DEG	t	CH	CHNG
ROW	LIN	DATE	LEG	PROGRAM	ACTUAL	EXP									
47	18	10/96	H	-	-	-	00000							TBP	
39	38	10/96	H	-	-	-	00000							TBP	
12	49	10/96	H	-	-	-	00000							TBP	
25	50	10/96	H	-	-	-	00000							TBP	
113	52	10/96	H	-	-	-	00000							TBP	
142	53	10/96	H	-	-	-	00000							TBP	
103	54	10/96	H	-	-	-	00000							TBP	
24	55	10/96	H	-	-	-	00000							TBP	
35	56	10/96	H	-	-	-	00000							TBP	
24	57	10/96	H	-	-	-	00000							TBP	
27	58	10/96	H	-	-	-	00000							TBP	
103	58	10/96	H	-	-	-	00000							TBP	
22	59	10/96	H	-	-	-	00000							TBP	
28	59	10/96	H	-	-	-	00000							TBP	
106	59	10/96	H	-	-	-	00000							TBP	
31	60	10/96	H	-	-	-	00000							TBP	
37	60	10/96	H	-	-	-	00000							TBP	
53	60	10/96	H	-	-	-	00000							TBP	
22	61	10/96	H	-	-	-	00000							TBP	
54	61	10/96	H	-	-	-	00000							TBP	
58	61	10/96	H	-	-	-	00000							TBP	
25	62	10/96	H	-	-	-	00000							TBP	
27	62	10/96	H	-	-	-	00000							TBP	
53	62	10/96	H	-	-	-	00000							TBP	
28	63	10/96	H	-	-	-	00000							TBP	
32	63	10/96	H	-	-	-	00000							TBP	
36	63	10/96	H	-	-	-	00000							TBP	
40	63	10/96	H	-	-	-	00000							TBP	
42	63	10/96	H	-	-	-	00000							TBP	
44	63	10/96	H	-	-	-	00000							TBP	
136	63	10/96	H	-	-	-	00000							TBP	
138	63	10/96	H	-	-	-	00000							TBP	
148	63	10/96	H	-	-	-	00000							TBP	
45	64	10/96	H	-	-	-	00000							TBP	
49	64	10/96	H	-	-	-	00000							TBP	
32	65	10/96	H	-	-	-	00000							TBP	
56	65	10/96	H	-	-	-	00000							TBP	
102	65	10/96	H	-	-	-	00000							TBP	
47	66	10/96	H	-	-	-	00000							TBP	
53	66	10/96	H	-	-	-	00000							TBP	
32	67	10/96	H	-	-	-	00000							TBP	
41	68	10/96	H	-	-	-	00000							TBP	
58	69	10/96	H	-	-	-	00000							TBP	
57	70	10/96	H	-	-	-	00000							TBP	
115	70	10/96	H	-	-	-	00000							TBP	



1

2

3

4

5

6

7

8

CUMULATIVE REPORT  
10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 2 OF 3  
DATE: 01/01/97  
TIME: 09:55:23

ROW	EXAM	EXAM EXTENT	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	CH	CHNG
49	72 10/96	H	-	-	-	-	00000						TBP	
55	72 10/96	H	-	-	-	-	00000						TBP	
38	73 10/96	H	-	-	-	-	00000						TBP	
148	73 10/96	H	-	-	-	-	00000						TBP	
150	73 10/96	H	-	-	-	-	00000						TBP	
47	74 10/96	H	-	-	-	-	00000						TBP	
52	75 10/96	H	-	-	-	-	00000						TBP	
150	75 10/96	H	-	-	-	-	00000						TBP	
152	75 10/96	H	-	-	-	-	00000						TBP	
47	76 10/96	H	-	-	-	-	00000						TBP	
66	77 10/96	H	-	-	-	-	00000						TBP	
37	78 10/96	H	-	-	-	-	00000						TBP	
62	79 10/96	H	-	-	-	-	00000						TBP	
64	79 10/96	H	-	-	-	-	00000						TBP	
49	80 10/96	H	-	-	-	-	00000						TBP	
51	80 10/96	H	-	-	-	-	00000						TBP	
43	82 10/96	H	-	-	-	-	00000						TBP	
32	83 10/96	H	-	-	-	-	00000						TBP	
44	83 10/96	H	-	-	-	-	00000						TBP	
46	83 10/96	H	-	-	-	-	00000						TBP	
52	83 10/96	H	-	-	-	-	00000						TBP	
33	84 10/96	H	-	-	-	-	00000						TBP	
129	84 10/96	H	-	-	-	-	00000						TBP	
52	85 10/96	H	-	-	-	-	00000						TBP	
51	86 10/96	H	-	-	-	-	00000						TBP	
59	86 10/96	H	-	-	-	-	00000						TBP	
56	87 10/96	H	-	-	-	-	00000						TBP	
60	87 10/96	H	-	-	-	-	00000						TBP	
62	87 10/96	H	-	-	-	-	00000						TBP	
129	90 10/96	H	-	-	-	-	00000						TBP	
126	93 10/96	H	-	-	-	-	00000						TBP	
128	93 10/96	H	-	-	-	-	00000						TBP	
132	93 10/96	H	-	-	-	-	00000						TBP	
60	95 10/96	H	-	-	-	-	00000						TBP	
127	96 10/96	H	-	-	-	-	00000						TBP	
58	97 10/96	H	-	-	-	-	00000						TBP	
126	97 10/96	H	-	-	-	-	00000						TBP	
57	98 10/96	H	-	-	-	-	00000						TBP	
78	99 10/96	H	-	-	-	-	00000						TBP	
124	103 10/96	H	-	-	-	-	00000						TBP	
59	106 10/96	H	-	-	-	-	00000						TBP	
40	107 10/96	H	-	-	-	-	00000						TBP	
49	116 10/96	H	-	-	-	-	00000						TBP	
50	117 10/96	H	-	-	-	-	00000						TBP	
117	118 10/96	H	-	-	-	-	00000						TBP	



CUMULATIVE REPORT

10/96, ARIZONA PUBLIC SERVICE CO., PALO VERDE, UNIT 1

STEAM GENERATOR : 12  
OUTAGE DATA SET : CURRENT  
SELECTION VARIABLES: Percent

PAGE: 3 OF 3  
DATE: 01/01/97  
TIME: 09:55:23

EXAM			EXAM EXTENT								LOCATION				CH	CHNG
ROW	LIN	DATE	LEG	PROGRAM	ACTUAL	EXP	CAL	PROBE	VOLTS	MIL		DEG	%			
117	122	10/96	H	-	-		00000							TBP		
112	127	10/96	H	-	-		00000							TBP		
113	130	10/96	H	-	-		00000							TBP		
106	133	10/96	H	-	-		00000							TBP		
103	136	10/96	H	-	-		00000							TBP		
128	139	10/96	H	-	-		00000							TBP		
106	141	10/96	H	-	-		00000							TBP		
117	142	10/96	H	-	-		00000							TBP		
77	144	10/96	H	-	-		00000							TBP		
109	146	10/96	H	-	-		00000							TBP		
111	150	10/96	H	-	-		00000							TBP		
71	154	10/96	H	-	-		00000							TBP		
106	165	10/96	H	-	-		00000							TBP		
8	189	10/96	H	-	-		00000							TBP		

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 104

NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 104

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: TBP

REPORT OPTIONS:

Only examination results matching criteria are included

MAP OPTIONS:

Plot Variable = Indication Codes

Plot data from current examination only

