



Tennessee Valley Authority, Post Office Box 2000, Soddy Daisy, Tennessee 37384-2000

November 21, 2008

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of )  
Tennessee Valley Authority (TVA) )

Docket No. 50-328

**SEQUOYAH NUCLEAR PLANT (SQN) - UNIT 2 CYCLE 15 (U2C15) - 180-DAY -  
STEAM GENERATOR (SG) INSPECTION REPORT**

In accordance with the requirements of SQN Unit 2 Technical Specification 6.8.4.k, Steam Generator Program and Technical Specification 6.9.1.16, Steam Generator (SG) Tube Inspection report, TVA is submitting the 180-day report that includes the results of inservice inspections performed on Unit 2 SGs during the U2C15 refueling outage.

There are no commitments contained in this letter.

Please direct questions concerning this issue to me at (423) 843-7170.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.D. Smith', written over a horizontal line.

James D. Smith  
Manager, Site Licensing and  
Industry Affairs

Enclosure  
cc: See page 2

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cc (Enclosure):

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**Tennessee Valley Authority**

**Sequoyah Nuclear Plant**

**Unit 2 Cycle 15  
Refueling Outage  
May 2008**

**180 Day Steam Generator Inspection Report**

Prepared by: *Ernest A. Coyle* 11/12/08

Verified by: *William David Jones* 11/12/08

Approved by: *James M. Coyle* 11/14/08

**Sequoyah Nuclear Plant (SQN)  
Unit 2 Cycle 15  
180- Day Report**

In accordance with Technical Specification 6.8.4.k "Steam Generator (SG) Program," and Technical Specification 6.9.1.16, "Steam Generator Tube Inspection Report," this report documents the results of the SQN Unit 2 Cycle 15 (U2C15) SG tubing inservice inspection. The following is the required scope of the 180-day report.

1. The scope of the inspection performed on each SG

<u>EDDY CURRENT EXAM TYPE</u>	<u>SG 1</u>	<u>SG 2</u>	<u>SG 3</u>	<u>SG 4</u>	<u>Total</u>
Full Length Bobbin Coil	2505	2458	2451	2485	9899
Straight Leg Bobbin (H/L & C/L)	1596	1496	1592	1536	6220
Partial Bobbin U-Bend (R5 thru R9)	459	430	455	421	1765
Low Row U-Bend Plus Point (R1 thru R4)	339	323	341	347	1350
High Row U-Bend MHI (R5 thru R8)	75	75	75	75	300
High Row U-Bend Expansion (R5 thru R17)	0	1004	0	0	1004
Hot Leg Top of Tubesheet Plus Point	3303	3206	3247	3253	13009
U-Bend Dented Plus Point	56	24	11	70	161
Hot Leg Dented Plus Point	302	174	243	126	845
Cold Leg Dented Plus Point	116	30	89	136	371
Diagnostic/PID Plus Point	133	183	250	259	825
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Total Exams Completed	8884	9403	8754	8708	35749
Total Tubes Examined	3303	3206	3247	3253	13009

2. Active degradation mechanisms found

<u>INDICATIONS (Tubes)</u>	<u>SG 1</u>	<u>SG 2</u>	<u>SG 3</u>	<u>SG 4</u>	<u>Total</u>
AVB WEAR	6	23	10	8	47
COLD LEG THINNING	41	75	48	40	204
ODSCC HTS AXIAL	0	1	2	1	4
ODSCC HTS CIRC	1	5	7	2	15
ODSCC TSP AXIAL	421	481	559	966	2427
FREESPAN ODSCC AXIAL	0	2	1	0	3
PWSCC HTS AXIAL	0	0	1	1	2
PWSCC HTS CIRC	0	0	0	1	1
PWSCC U-BEND AXIAL	0	1	0	0	1
PWSCC U-BEND CIRC	0	4	0	0	4
OTHER/PREVENTIVE	2	0	1	8	11
<hr/>					
Total	471	592	629	1027	2719

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3. Nondestructive examination Techniques utilized for each degradation mechanism.

**Table 1**

Degradation Mechanism	Detection Technique
AVB Wear	Bobbin Coil Exams
Cold Leg Thinning	Bobbin Coil Exams
Loose Parts Wear	Bobbin and +Point Exams
ODSCC Axial Freespan	Bobbin Coil Exams
ODSCC Axial hot leg top-of-tubesheet	+Point Exams
ODSCC Circ hot leg top-of-tubesheet	+Point Exams
ODSCC Axial in Sludge Pile	+Point Exams
ODSCC Axial Tube Support Plate (TSP)	Bobbin Coil Exams
ODSCC Circ dented TSPs	+Point Exams
Pitting / Volumetric	Bobbin Coil and +Point Exams
PWSCC Axial at Freespan dings	+Point Exams
PWSCC Circ at Freespan dings	+Point Exams
PWSCC Axial hot leg top-of-tubesheet	+Point Exams
PWSCC Circ hot leg top-of-tubesheet	+Point Exams
PWSCC Axial U-bend R1-4	+Point Exams
PWSCC Circ U-bend R1-4	+Point Exams
PWSCC Axial U-bend R5-10	+Point or Array Probe Exams
PWSCC Circ U-bend R5-10	+Point or Array Probe Exams
PWSCC Axial at dented TSPs	+Point Exams
PWSCC Circ at dented TSPs	+Point Exams

4. Location, orientation (if linear), and measured sizes (if available) of service induced indications.

Refer to Tables 2 and 4.

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5. Number of tubes plugged during the inspection outage for each active degradation mechanism.

<u>PLUGGING STATUS</u>	<u>SG 1</u>	<u>SG 2</u>	<u>SG 3</u>	<u>SG 4</u>	<u>Total</u>
Previously Plugged Tubes	85	182	141	135	543
<b>Damage Mechanism</b>					
COLD LEG THINNING	0	1	3	0	4
ODSCC HTS AXIAL	0	1	2	1	4
ODSCC HTS CIRC	1	5	7	2	15
ODSCC TSP AXIAL	4	1	6	5	16
FREESPAN ODSCC AXIAL	0	2	1	0	3
<b>PREVENTATIVE</b>					
PWSCC HTS AXIAL	0	0	1	1	2
PWSCC HTS CIRC	0	0	0	1	1
PWSCC U-BEND AXIAL	0	1	0	0	1
PWSCC U-BEND CIRC	0	4	0	0	4
Plugged Cycle 15	7	15	21	18	61
<b>TOTAL TUBES PLUGGED</b>	<b>92</b>	<b>197</b>	<b>162</b>	<b>153</b>	<b>604</b>
<b>TOTAL PERCENTAGE</b>	<b>2.7</b>	<b>5.8</b>	<b>4.8</b>	<b>4.5</b>	<b>4.5</b>

6. Total number and percentage of tubes plugged to date.

Refer to the response to number 5 above.

7. The results of condition monitoring, including the results of tube pulls and in-situ testing.

**Anti-Vibration Bar (AVB) WEAR**

The SQN U2C15 Degradation Assessment predicted based on past indications and growth rate data, that two tubes would exceed the plugging limit for AVB wear. A total of 87 indications (in 47 tubes) were detected. None exceeded the plugging limit of 40 percent. The 40 percent plugging limit is conservative for SQN Unit 2 SGs for both structural integrity and accident induced leakage performance criteria. Condition Monitoring assumed the axial length of the AVB Wear indication to be greater than the width of the AVB (i.e., 0.53-inch). The limiting indication of 37 percent measured maximum depth was in SG2 Row 27 Col 65 at AV3. The corrected Max Depth would be 39.47 percent [i.e.,  $(0.94 \times 37) + 4.69 = 39.47$  percent]. The examination technique specification sheet (ETSS) nondestructive examination (NDE) technique measurement uncertainty is 3.74 percent. In accordance with EPRI Steam Generator Integrity Assessment Guidelines Rev 2, the analyst uncertainty is assumed to be half of the NDE

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technique uncertainty. The square root of the sum of the squares was used to determine the total NDE uncertainty of 4.18 percent [i.e.,  $(3.74^2 + (3.74/2)^2)^{0.5} = 4.18$ ]. TubeWorks <135 Degrees Circumferential Extent, Structural Limit Calculator was utilized to calculate the 95th percentile lower limit burst pressure of 6251 psig. No AVB Wear indication exceeded the structural or leakage screening criteria for In-Situ pressure testing. All AVB wear indications met condition monitoring performance criteria of 4185.0 psig.

The U2C14 Operational Assessment assumed a 40 percent through wall AVB wear was left in service which grew at 11.56 percent/EFY into a 64.39 percent through wall indication. The largest indications discovered this outage was 37 percent through wall. The 95th percentile growth rate for the U2C15 inspection was 3.75 percent/EFY. The U2C14 Operational Assessment predicted zero leakage for AVB Wear and the largest AVB Wear indication of 37 percent through wall is expected to not leak during a postulated main steam line break (MSLB) accident.

#### Cold Leg Thinning

The SQN U2C14 Degradation Assessment predicted four tubes to exceed the repair limit of 40 percent through wall for Cold Leg Thinning. A total of 215 indications (in 204 tubes) of Cold Leg Thinning were detected. Four indications exceeded the repair limit of 40 percent through wall and were plugged. The 40 percent repair limit is conservative for SQN Unit 2 SGs for structural and leakage performance criteria. Condition Monitoring assumed the axial length of Cold Leg Thinning to be the tube support plate thickness (0.75-inch). The most limiting indication with an NDE indicated value of 51% max depth was in SG 3 Row 43 Col 30 at C01 -0.12. The corrected depth is 42.86 percent (i.e.,  $0.97 \times 51 - 6.61 = 42.86$ ). The ETSS NDE technique measurement uncertainty is 13.20. In accordance with EPRI Steam Generator Integrity Assessment Guidelines Rev 2, the analyst uncertainty is assumed to be half of the NDE technique uncertainty. The square root of the sum of the squares was used to determine the total NDE uncertainty of 14.75 percent [i.e.,  $(13.2^2 + (13.2/2)^2)^{0.5} = 14.75$ ]. TubeWorks <135 Degrees circumferential Extent, Structural Limit Calculator was utilized to calculate the 95th percentile lower limit burst pressure of 4444 psig. All Cold Leg Thinning indications met Condition Monitoring performance criteria of 3439 psig. The four indications which exceeded the plugging limit were plugged.

The U2C14 Operational Assessment assumed a 40 percent through wall indication at the beginning of cycle (BOC) with an average depth growth rate of 5.9 percent/EFY with a standard deviation of 6.9 percent/EFY. Utilizing a Monte Carlo methodology, the end of cycle (EOC) burst pressure was 4299 psig. The U2C15 examinations discovered a 52 percent through wall indication with a burst pressure of 4444 psig. Therefore, the U2C14 Operational Assessment bounds the U2C15 finding.

#### Loose Part Wear

The SQN U2C15 Degradation Assessment predicted two tubes to be plugged for Loose Part Wear. Zero indications of Loose Part Wear were detected during the U2C15 inspection.

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Outer Diameter Stress Corrosion Cracking (ODSCC) Axial Freespan

The SQN U2C15 Degradation Assessment predicted three tubes to be plugged for ODSCC Axial Freespan. Eight indications (in four tubes) of ODSCC Axial Freespan were identified during the U2C15 inspection. All but two indications were below the 0.4 volt quick screen for structural or leakage evaluation. The two indications greater than the 0.4 volt quick screen criteria were also greater than the EPRI SG In-Situ Pressure Test Guidelines, Rev3,  $L_{Str-L}$  length of 0.44 inches. Less than fifteen ODSCC axial freespan indications have been In-Situ Pressure Tested at SQN and therefore both indications required an In-Situ Pressure Test which was performed. The indications withstood a pressure three times the normal operating pressure differential with leakage below detection. Therefore, all ODSCC axial freespan met Condition Monitoring structural and leakage performance criteria. All indications of ODSCC axial freespan were plugged.

The U2C14 Operational Assessment assumed a 46 percent through wall ODSCC axial freespan was left in service. The Operational Assessment utilized a Monte Carlo methodology to determine structural integrity. A lognormal average depth growth rate of 1.946 percent/ effective full power years (EFPY) with a lognormal standard deviation of 0.650 percent /EFPY and a length average lognormal growth rate of -2.526 inches/Effective Full Power Year (EFPY) with a lognormal standard deviation of 0.670 inches/EFPY was used. The largest indication of ODSCC axial freespan U2C15 was in the eddy current data the previous outage but was not called by the analyst. Growth information is not available because +Point was not performed U2C14. The largest two indications were in the same tube near each other and therefore one In-Situ Pressure test was performed which tested both indications. Both indications withstood greater than three times normal operating pressure differential with zero leakage. The largest bobbin coil indication voltage grew from 0.4 volts U1C14 to 0.67 volts U2C15. This is not an abnormal bobbin coil voltage growth. Based on the above, the U2C14 Operational Assessment bounds the U2C15 findings.

ODSCC Axial Hot Leg Top of Tubesheet (HTS)

The SQN U2C15 Degradation Assessment predicted seven tubes to be plugged for ODSCC axial at HTS. A total of six indications in four tubes were identified. All were below the 0.4 volt quick screen for performing structural or leakage analysis. Therefore, all ODSCC Axial at HTS indications met the Condition Monitoring performance criteria. All ODSCC Axial at HTS indications were plugged.

Due to all indications of ODSCC Axial HTS being below the 0.5 volt quick screen, it is judged that U2C14 Operational Assessment bounds the U2C15 finding.

ODSCC Circumferential at HTS

The SQN U2C15 Degradation Assessment predicted four tubes to be plugged for ODSCC Circumferential at HTS. A total of sixteen indications (in fifteen tubes) were identified. Each of these tubes was below the 0.4 volt quick screen for performing structural or leakage integrity. Therefore, all ODSCC Axial at HTS indications met the condition monitoring performance criteria. All ODSCC Axial at HTS indications were stabilized and plugged.



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Due to all indications of ODSCC circumferential at I HTS being below the 0.5 volt quick screen, it is judged that U2C14 operational assessment bounds the U2C15 finding.

ODSCC Axial in the Sludge Pile

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for ODSCC Axial in the Sludge Pile region. Zero indications of this degradation mechanism were detected.

ODSCC Axial at Tube Support Plate (TSP)

The SQN U2C15 Degradation Assessment predicted twenty-one tubes to be plugged for ODSCC Axial at TSPs. Sixteen indications were plugged U2C15 (another nine were plugged "preventively" to prevent extreme voltage growth) The alternate repair criteria for ODSCC Axial at TSPs continued to be implemented this inspection and a detailed condition monitoring and operational assessment report was transmitted to NRC within 90 days. Condition Monitoring calculations have been performed and probability of burst in the limiting SG at the End of Cycle 15 (EOC-15) was  $1.35E-4$  and the postulated accident induced leakage in the limiting SG at EOC-15 was 0.318 gpm. These values meet performance criteria. Additionally, ODSCC TSP Axial indications greater than 1.0 volts were examined by +Point probe. Senior eddy current analysts reviewed the eddy current data and those which could possibly have extreme voltage growth during the next cycle were preventively plugged. Indications greater than 2.0 volts that confirmed with +Point probe were plugged.

The U2C14 Operational Assessment predicted for the most limiting SG that the primary to secondary leakage during a postulated MSLB to be 1.47 gpm. The U2C15 condition monitoring determined the most limiting steam generator primary to secondary leakage during a postulated MSLB to be 0.359 gpm. The U2C14 Operational Assessment predicted the most limiting steam generator Conditional Burst Probability to be  $6.32E-4$ . The U2C15 Condition Monitoring determined the most limiting Conditional Probability of Burst to be  $1.30E-4$ . Therefore, the U2C14 Operational Assessment bounded the U2C15 finding.

ODSCC Circumferential at tube support plate (TSP) associated with dents

The SQN U2C15 Degradation Assessment predicted three tubes to be plugged for ODSCC circumferential at dented TSPs. Zero indications of ODSCC Circumferential at TSPs were detected.

Pitting

The Sequoyah U2C15 Degradation predicted one tube to be plugged for Pitting. Zero indications of Pitting were detected.

PWSCC Axial at Freespan Dings

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The SQN U2C15 Degradation Assessment predicted one tube to be plugged for PWSCC Axial at Freespan Dings and zero indications were detected.

PWSCC Circumferential Freespan at Dings

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for PWSCC Circumferential at Freespan Dings and zero were detected.

PWSCC Axial at HTS

The SQN U2C15 Degradation Assessment predicted sixteen tubes to be plugged for PWSCC Axial at HTS. Two indications were identified. One indication was below the 0.5 volt quick screen value and therefore condition monitoring structural and leakage performance criteria were inherently satisfied. One indication was above the quick screen value of 0.5 volts and was 2.24 inches below the top of tubesheet. This location would preclude the tube from having a structural failure. A leakage value has been assigned as part of the W\* condition monitoring Leakage evaluation. The indications were plugged.

Due to the indications of PWSCC Axial HTS near the top of tubesheet being below the 0.5 volt quick screen; it is judged that U2C14 Operational Assessment bounds the U2C15 finding.

PWSCC Circumferential at HTS

The SQN U2C15 Degradation Assessment predicted four tubes to be plugged due to PWSCC Circumferential at HTS. One indication was identified. This indication was below the 0.5 volt quick screen value and therefore Condition Monitoring structural and leakage performance criteria were inherently satisfied. The PWSCC Circumferential at HTS indication was plugged.

Due to all indications of PWSCC Circumferential at HTS being below the 0.5 volt quick screen, it is judged that U2C14 Operational Assessment bounds the U2C15 finding.

PWSCC Axial in Rows 1-4 U-bend regions

The SQN U2C15 Degradation Assessment predicted four tubes to be plugged for PWSCC Axial in Rows 1-4 U-bend regions. Zero indications of this degradation mechanism were detected.

PWSCC Circumferential in Rows 1-4 U-bend regions

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for PWSCC Circumferential in Rows 1-4 U-bend regions. One indication of PWSCC Circumferential

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in Rows 1-4 U-bend regions was detected in SG 2 Row 4 Column 71. This indication was greater than the 0.5 volt quick screen but less than 180 degrees circumferential extent. Therefore, in accordance with EPRI SG In-Situ Pressure Test Guideline the subject indications was not required to be In-Situ Pressure Proof Tested. In addition, the subject indication's Max Volts were less than  $V_{THR-L}$  and therefore an In-Situ Leak Test was not required. This indication was plugged.

The U2C14 Operational Assessment assumed a beginning of cycle (BOC) flaw with a Percent Degraded Area (PDA) of 36 percent with an assumed growth rate of 20 percent/EFY. The U2C15 indication in SG2 R4 C71 had a PDA of 4.52 percent. Therefore, the U2C14 Operational Assessment bounds the U2C15 finding.

PWSSC Axial in Rows 5-20 U-bends

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for both axial and circumferential PWSSC in rows 5-20. One axial indications was detected in SG 2 Row 8 Col 3. The initial sample was 20 percent of rows 5 through 8. In accordance with the Degradation Assessment expansion criteria, 100 percent of rows 5 through 16 and 50 percent of row 17 in the affected steam generator were examined. No additional axial indications were detected. The indication max volts exceeded the 0.5 volt quick screen and the length exceeded the 0.44 inch  $L_{str}$ . The Degradation Assessment assumed a non-qualified depth sizing technique and less than 15 tubes have been In-Situ pressure tested for this degradation mechanism at SQN. Therefore, In-Situ Pressure testing was required. The entire tube was pressure tested to greater than three time the normal operating pressure differential. The tube passed the pressure test and had zero leakage. This indication was plugged.

The U2C14 Operational Assessment assumed a BOC flaw length of 0.55 inches. The indication in SG2 R8 C3 was 0.48 inches long at the end of cycle (EOC). The U2C14 Operational Assessment assumed a BOC flaw average depth to be 42 percent. The indication in SG2 R4 C71 has a 57 percent max depth and an average depth of 34.6 percent at the EOC-15 (based on non-qualified sizing). Therefore, the U2C14 Operational Assessment bounds the U2C15 finding.

PWSSC Circumferential in Rows 5-20 U-bends

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for both axial and circumferential PWSSC in row 5-20. Three indications in two tubes were detected in the initial sample which was 20 percent of rows 5 through 8. The Degradation Assessment expansion criteria required an expansion sample of 100 percent of row 5 through 10 in the affected steam generator. The expansion sample was greater than this due to an axial indication which was also discovered. One additional circumferential indication was detected in the expansion sample. Therefore, a total of four indications in three tubes were discovered. Three of the four indications exceeded the 0.5 volt quick screen. However, none exceeded 180 degrees circumferential extent and none exceeded the  $V_{thr-L}$  voltage of 1.98 volts. In accordance with the EPRI In-Situ Pressure Test Guidelines, In-Situ pressure testing was not required. Therefore Condition

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Monitoring structural and leakage performance criteria were inherently satisfied. Therefore, all PWSCC Circumferential indications in row 5-20 U-bends met the condition monitoring structural and leakage performance criteria. All PWSCC Circumferential indications in row 5-20 U-bends were plugged.

The U2C14 Operational Assessment assumed a beginning of cycle BOC percent degraded area of 55 percent with an assumed growth rate of 9 percent PDA/EFPY. The greatest indication had a PDA less than 10 percent at the end of cycle EOC. Therefore, the U2C14 Operational Assessment bounds the U2C15 finding.

PWSCC Axial at dented TSPs

The SQN U2C15 Degradation Assessment predicted two tubes to be plugged for this degradation mechanism. Zero indications were detected.

PWSCC Circumferential at dented TSPs

The SQN U2C15 Degradation Assessment predicted one tube to be plugged for this degradation mechanism. Zero indications of PWSCC Circumferential at dented TSPs were detected.

PWSCC Axial at Cold Leg Tube Ends (CTE)

During the SQN U2C15 steam generator tubing examinations, one tube was discovered to have axial cracks near the cold leg tube end at the tube to tubesheet weld. In addition, a crack was discovered 1.72 inches above the cold leg tube end in the same tube. These indications are greater than 19 inches below the top-of-tubesheet expansion-transition. The SQN 2 steam generators are Westinghouse model 51. The tubesheet is expanded the full depth of the tubesheet via the Westinghouse explosive WEXTEx expansion process. NRC has approved the application of W\* to the hot leg of the SQN Unit 2 steam generators. W\* considered the most stringent loads associated with plant operation, including transients and postulated accident conditions and determined that the W\* length for the hot leg provides for maintaining a safety factor of three against burst and tube pull-out from the tubesheet. The hot leg W\* distance is 7.0 inches, however TVA has committed to examine 8 inches below the bottom of the hot leg WEXTEx transition or the top-of-tubesheet whichever is lower. The 8 inch examination distance accounts for the location uncertainty associated with the location of the bottom of the WEXTEx transition and NDE uncertainty while still ensuring that the 7.0 inch W\* distance is maintained. This ensures tube structural integrity is maintained. From a W\* perspective, the greatest difference between the hot leg and cold leg which could impact the W\* length is the difference in temperature between the hot leg to cold leg. Alloy 600 tubing has a greater coefficient of thermal expansion than the carbon steel tubesheet. Therefore the cold leg tubing does not press against the tubesheet hole with as much force as the hot leg. Assuming temperature difference is from room temperature, then the cold leg will have 10.5 percent less radial force against the tubesheet hole due to thermal expansion. However, thermal expansion is only one of several forces which create radial forces which press the tube against the tubesheet hole (e.g., the residual forces from the WEXTEx expansion, the RCS pressure, etc.). Therefore, if the W\*

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distance of 7.0 inches is increased by 10.5 percent the  $W^*$  distance would be 7.74 inches. Therefore, a conservative cold leg  $W^*$  length would be nine inches from the bottom of the WEXTEx expansion or the top of the tubesheet (whichever is lower). Clearly, an indication greater than 19 inches below the top of the cold leg tubesheet is not structurally significant. During the U2C13 inspection a 20 percent sample of the tubesheet was examined to greater than eight inches below the top of the cold leg tubesheet. No flaws were discovered during the U2C13 inspection. The tube with these indications was plugged.

Preventive plugging

During the SQN U2C15 SG tubing examinations, ten tubes were preventively plugged. Nine tubes with distorted support indication (DSI) were preventively plugged in an effort to preclude extremely large voltage growth indications of ODSCC Axial at TSP. The tenth tube (SG 4 R1C32) was preventively plugged due to the inability to perform a rotating probe examination in the U-bend region. None of these tubes had defects identified which exceeded the plugging limit but were plugged to ensure the safe and reliable operation of the SQN Unit 2 during fuel cycle 16.

In-Situ Pressure Testing

In-Situ pressure testing was required during the SQN U2C15 inspection on two tubes. The remainder of the tubes screened out in accordance with the EPRI In-Situ Pressure Test Guidelines. The majority of the indications detected during U2C15 were less than 0.4 volts for ODSCC or 0.5 volts for PWSCC which in accordance with EPRI In-Situ Pressure Test Guidelines, section B.3.4 is a quick screen for In-Situ pressure testing. This lower quick screen value precludes an indication from burst at three time normal operating pressure differential.

No tube pulls were performed.

Sludge lancing and foreign object search and retrieval was performed on all four SGs.



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8. The effective plugging percentage for all plugging in each SG.

SQN Unit 2 does not have any sleeve installed and therefore the effective plugging percentage is identical to the plugging percentage. Refer to the response to number 5 above.

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**TABLE 3**

**Nomenclature**

AVB - Anti-Vibration Bar  
CA - Crack angle, the circumferential extent of a circumferential crack in degrees  
CA<sub>TWSL</sub> - Structural limit crack angle for a 100 percent through wall circumferential crack in degrees  
C01 - First cold leg tube support plate intersection  
C02 - Second cold leg tube support plate intersection  
C03 - Third cold leg tube support plate intersection  
C04 - Fourth cold leg tube support plate intersection  
C05 - Fifth cold leg tube support plate intersection  
C06 - Sixth cold leg tube support plate intersection  
C07 - Seventh cold tube support plate intersection  
CTE - Cold leg tube end. (Primary side cold leg face of tubesheet)  
CTS - Cold leg top-of-tubesheet. (Secondary side cold leg face of tubesheet)  
C/L - Cold Leg  
H01 - First hot leg tube support plate intersection  
H02 - Second hot leg tube support plate intersection  
H03 - Third hot leg tube support plate intersection  
H04 - Fourth hot leg tube support plate intersection  
H05 - Fifth hot leg tube support plate intersection  
H06 - Sixth hot leg tube support plate intersection  
H07 - Seventh hot leg tube support plate intersection  
HTE - Hot leg tube end. (Primary side hot leg face of tubesheet)  
HTS - Hot leg top-of-tubesheet. (Secondary side cold leg face of tubesheet)  
L<sub>STR</sub> - Structural length for a 100 percent through-wall axial crack in inches  
MHI - Mitsubishi Heavy Industry Array probe  
ODSCC - Outside Diameter Stress Corrosion Cracking  
PWSCC - Primary Water Stress Corrosion Cracking  
RFO - Refuel Outage  
RPC - Literally 'Rotating Pancake Coil' eddy current probe. This term is also used to describe eddy current probes in which the coil face contacts the tube wall while rotating and being pulled through the tube axially such that the examination path is helical.  
SAI - Single Axial Indication  
SCI - Single Circumferential Indication  
SG - Steam Generator  
SVI - Single Volumetric Indication  
SQN - Sequoyah Nuclear Plant  
Stab - Tube was stabilized  
TBP - "To-Be-Plugged" Analysts determined tube should be plugged (Majority of these were analysis of Axial ODSCC at TSPs bobbin vs. +Pt comparison)  
TSP - Tube Support Plate  
TTS - Top of Tubesheet



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Table 4  
Indications

SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	19	38	0.28	22	AV3	0	AVB WEAR	In Service <40% TW
1	19	38	0.6	35	AV2	0	AVB WEAR	In Service <40% TW
1	27	29	0.31	22	AV3	0.03	AVB WEAR	In Service <40% TW
1	27	29	0.35	24	AV2	0.06	AVB WEAR	In Service <40% TW
1	27	31	0.24	18	AV4	-0.21	AVB WEAR	In Service <40% TW
1	27	31	0.4	26	AV3	0.05	AVB WEAR	In Service <40% TW
1	27	31	0.43	27	AV2	0.4	AVB WEAR	In Service <40% TW
1	32	64	0.41	21	AV4	0	AVB WEAR	In Service <40% TW
1	32	64	0.45	22	AV2	0	AVB WEAR	In Service <40% TW
1	32	64	0.53	24	AV3	0.23	AVB WEAR	In Service <40% TW
1	36	66	0.46	23	AV3	-0.15	AVB WEAR	In Service <40% TW
1	39	45	0.34	17	AV2	-0.12	AVB WEAR	In Service <40% TW
2	17	28	0.28	15	AV2	-0.21	AVB WEAR	In Service <40% TW
2	17	28	0.34	18	AV1	0	AVB WEAR	In Service <40% TW
2	17	28	0.89	33	AV3	0.06	AVB WEAR	In Service <40% TW
2	17	64	0.33	19	AV1	-0.16	AVB WEAR	In Service <40% TW
2	17	64	0.46	24	AV2	0	AVB WEAR	In Service <40% TW
2	17	64	0.46	24	AV3	0	AVB WEAR	In Service <40% TW
2	18	42	0.35	19	AV2	0.24	AVB WEAR	In Service <40% TW
2	18	72	0.26	16	AV3	0	AVB WEAR	In Service <40% TW
2	19	28	0.39	20	AV1	0	AVB WEAR	In Service <40% TW
2	19	74	0.29	18	AV2	0	AVB WEAR	In Service <40% TW
2	22	41	0.35	18	AV2	0.09	AVB WEAR	In Service <40% TW
2	23	69	0.45	21	AV3	0	AVB WEAR	In Service <40% TW
2	23	69	0.65	27	AV2	0	AVB WEAR	In Service <40% TW
2	24	61	0.34	20	AV4	-0.19	AVB WEAR	In Service <40% TW
2	24	61	1.02	37	AV2	0.3	AVB WEAR	In Service <40% TW
2	24	63	0.66	30	AV2	-0.08	AVB WEAR	In Service <40% TW
2	24	64	0.29	17	AV1	-0.19	AVB WEAR	In Service <40% TW
2	24	64	0.33	19	AV3	0	AVB WEAR	In Service <40% TW
2	24	64	0.34	20	AV2	0	AVB WEAR	In Service <40% TW
2	24	71	0.41	20	AV3	0	AVB WEAR	In Service <40% TW
2	26	70	0.37	21	AV3	0.16	AVB WEAR	In Service <40% TW
2	27	43	0.53	24	AV3	0.03	AVB WEAR	In Service <40% TW
2	27	65	0.29	15	AV1	0	AVB WEAR	In Service <40% TW
2	27	65	0.62	26	AV2	0	AVB WEAR	In Service <40% TW
2	27	65	1.13	37	AV3	0	AVB WEAR	In Service <40% TW
2	29	39	0.27	15	AV3	-0.49	AVB WEAR	In Service <40% TW
2	29	39	0.45	22	AV2	0.49	AVB WEAR	In Service <40% TW
2	32	56	0.49	24	AV1	0	AVB WEAR	In Service <40% TW
2	32	56	0.51	25	AV3	0	AVB WEAR	In Service <40% TW
2	32	56	0.57	26	AV2	0	AVB WEAR	In Service <40% TW
2	32	62	0.3	17	AV3	-0.29	AVB WEAR	In Service <40% TW
2	32	62	0.45	22	AV2	0.16	AVB WEAR	In Service <40% TW
2	33	62	0.35	18	AV3	0.18	AVB WEAR	In Service <40% TW
2	33	77	0.31	16	AV3	0	AVB WEAR	In Service <40% TW
2	38	43	0.27	15	AV3	0	AVB WEAR	In Service <40% TW
2	38	46	0.32	17	AV4	0.16	AVB WEAR	In Service <40% TW
2	38	46	0.34	18	AV3	0.11	AVB WEAR	In Service <40% TW
2	39	49	0.27	16	AV4	0	AVB WEAR	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	39	49	0.3	17	AV3	0	AVB WEAR	In Service <40% TW
3	18	30	0.38	19	AV2	-0.18	AVB WEAR	In Service <40% TW
3	19	64	0.41	20	AV2	-0.33	AVB WEAR	In Service <40% TW
3	19	64	0.4	20	AV3	0	AVB WEAR	In Service <40% TW
3	23	55	0.21	15	AV2	0.17	AVB WEAR	In Service <40% TW
3	23	55	0.31	17	AV4	0	AVB WEAR	In Service <40% TW
3	23	55	0.37	20	AV3	0.17	AVB WEAR	In Service <40% TW
3	28	45	0.28	15	AV1	0	AVB WEAR	In Service <40% TW
3	28	45	0.39	19	AV2	0	AVB WEAR	In Service <40% TW
3	28	45	0.41	20	AV3	0	AVB WEAR	In Service <40% TW
3	32	40	0.38	19	AV3	0	AVB WEAR	In Service <40% TW
3	33	61	0.38	18	AV3	0	AVB WEAR	In Service <40% TW
3	33	61	0.39	19	AV2	0	AVB WEAR	In Service <40% TW
3	34	42	0.5	23	AV3	0	AVB WEAR	In Service <40% TW
3	35	39	0.38	19	AV2	-0.21	AVB WEAR	In Service <40% TW
3	35	39	0.36	19	AV3	0.24	AVB WEAR	In Service <40% TW
3	35	39	0.47	23	AV1	-0.03	AVB WEAR	In Service <40% TW
3	38	40	0.38	19	AV3	0.03	AVB WEAR	In Service <40% TW
3	38	40	0.53	24	AV4	0	AVB WEAR	In Service <40% TW
3	40	56	0.43	21	AV2	-0.03	AVB WEAR	In Service <40% TW
4	29	67	0.26	16	AV4	0	AVB WEAR	In Service <40% TW
4	29	67	0.31	18	AV2	0	AVB WEAR	In Service <40% TW
4	29	67	0.33	19	AV1	0	AVB WEAR	In Service <40% TW
4	29	67	0.91	35	AV3	0	AVB WEAR	In Service <40% TW
4	32	41	0.13	10	AV3	0.18	AVB WEAR	In Service <40% TW
4	32	41	0.22	15	AV2	0.09	AVB WEAR	In Service <40% TW
4	35	55	0.23	14	AV2	-0.03	AVB WEAR	In Service <40% TW
4	35	55	0.35	19	AV1	0.35	AVB WEAR	In Service <40% TW
4	38	44	0.49	25	AV3	0	AVB WEAR	In Service <40% TW
4	38	47	0.28	18	AV3	0.16	AVB WEAR	In Service <40% TW
4	38	47	0.37	22	AV4	0.05	AVB WEAR	In Service <40% TW
4	38	49	0.24	16	AV4	0	AVB WEAR	In Service <40% TW
4	38	49	0.3	19	AV3	0.21	AVB WEAR	In Service <40% TW
4	38	52	0.24	16	AV4	0	AVB WEAR	In Service <40% TW
4	38	52	0.49	26	AV3	0	AVB WEAR	In Service <40% TW
4	38	65	0.18	11	AV1	-0.03	AVB WEAR	In Service <40% TW
4	38	65	0.24	15	AV2	0	AVB WEAR	In Service <40% TW
1	1	1	0.28	28	C01	-0.03	C/L THINNING	In Service <40% TW
1	4	1	0.4	18	C01	-0.06	C/L THINNING	In Service <40% TW
1	4	1	0.31	VOL	C01	0	C/L THINNING	In Service <40% TW
1	5	1	1.11	29	C01	0.15	C/L THINNING	In Service <40% TW
1	5	1	0.68	VOL	C01	0.1	C/L THINNING	In Service <40% TW
1	6	1	0.44	3	C01	0	C/L THINNING	In Service <40% TW
1	6	1	0.31	VOL	C01	0.02	C/L THINNING	In Service <40% TW
1	7	1	0.89	15	C01	0.03	C/L THINNING	In Service <40% TW
1	8	2	0.94	1	C01	0.12	C/L THINNING	In Service <40% TW
1	8	2	0.42	VOL	C01	0.13	C/L THINNING	In Service <40% TW
1	10	3	0.6	30	C01	0.12	C/L THINNING	In Service <40% TW
1	11	2	0.53	1	C01	0.06	C/L THINNING	In Service <40% TW
1	11	4	0.63	1	C01	-0.12	C/L THINNING	In Service <40% TW
1	13	3	0.45	21	C01	0.08	C/L THINNING	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	13	3	0.34	VOL	C01	0.13	C/L THINNING	In Service <40% TW
1	16	91	0.21	28	C01	-0.08	C/L THINNING	In Service <40% TW
1	17	4	0.19	<20	C01	0.03	C/L THINNING	In Service <40% TW
1	29	84	0.45	1	C01	0	C/L THINNING	In Service <40% TW
1	30	83	1.61	28	C01	0.05	C/L THINNING	In Service <40% TW
1	30	83	1.21	VOL	C01	0.04	C/L THINNING	In Service <40% TW
1	31	79	0.5	<20	C01	-0.26	C/L THINNING	In Service <40% TW
1	31	82	0.97	1	C01	0.05	C/L THINNING	In Service <40% TW
1	34	19	1.55	24	C01	0.12	C/L THINNING	In Service <40% TW
1	34	79	0.74	13	C03	-0.15	C/L THINNING	In Service <40% TW
1	38	70	0.96	14	C01	-0.28	C/L THINNING	In Service <40% TW
1	42	30	0.52	<20	C01	0.16	C/L THINNING	In Service <40% TW
1	42	62	0.95	15	C01	-0.25	C/L THINNING	In Service <40% TW
1	43	31	1.05	5	C01	0.13	C/L THINNING	In Service <40% TW
1	43	32	1.03	27	C01	-0.05	C/L THINNING	In Service <40% TW
1	43	62	0.88	17	C01	-0.2	C/L THINNING	In Service <40% TW
1	44	35	0.49	20	C01	-0.19	C/L THINNING	In Service <40% TW
1	44	36	0.4	28	C02	-0.27	C/L THINNING	In Service <40% TW
1	44	36	0.63	37	C01	0.19	C/L THINNING	In Service <40% TW
1	44	36	0.29	VOL	C02	-0.16	C/L THINNING	In Service <40% TW
1	44	37	0.53	1	C02	-0.24	C/L THINNING	In Service <40% TW
1	44	39	1.49	24	C02	-0.21	C/L THINNING	In Service <40% TW
1	44	45	1.15	36	C02	0.06	C/L THINNING	In Service <40% TW
1	44	58	2.01	20	C01	-0.23	C/L THINNING	In Service <40% TW
1	44	58	0.3	VOL	C01	-0.21	C/L THINNING	In Service <40% TW
1	44	59	0.52	<20	C01	-0.26	C/L THINNING	In Service <40% TW
1	44	61	0.62	<20	C01	-0.28	C/L THINNING	In Service <40% TW
1	45	41	0.58	13	C02	-0.25	C/L THINNING	In Service <40% TW
1	45	55	0.4	23	C01	-0.26	C/L THINNING	In Service <40% TW
1	46	43	0.54	13	C02	-0.21	C/L THINNING	In Service <40% TW
1	46	44	0.42	<20	C02	-0.12	C/L THINNING	In Service <40% TW
1	46	50	0.88	13	C01	0.23	C/L THINNING	In Service <40% TW
1	46	51	1.02	1	C02	-0.03	C/L THINNING	In Service <40% TW
1	46	52	0.91	<20	C02	0.03	C/L THINNING	In Service <40% TW
1	46	53	0.79	23	C01	-0.12	C/L THINNING	In Service <40% TW
1	46	53	0.68	23	C02	0.12	C/L THINNING	In Service <40% TW
1	46	53	0.41	VOL	C02	0.16	C/L THINNING	In Service <40% TW
1	46	54	0.34	24	C02	-0.27	C/L THINNING	In Service <40% TW
1	46	54	0.28	VOL	C02	-0.19	C/L THINNING	In Service <40% TW
2	5	3	0.79	1	C01	-0.15	C/L THINNING	In Service <40% TW
2	5	93	0.68	32	C01	0	C/L THINNING	In Service <40% TW
2	5	94	0.58	10	C01	-0.24	C/L THINNING	In Service <40% TW
2	5	94	0.27	VOL	C01	-0.23	C/L THINNING	In Service <40% TW
2	6	94	0.59	9	C01	-0.33	C/L THINNING	In Service <40% TW
2	7	4	0.52	14	C01	-0.25	C/L THINNING	In Service <40% TW
2	7	92	0.95	12	C01	-0.12	C/L THINNING	In Service <40% TW
2	7	94	1.32	18	C01	-0.21	C/L THINNING	In Service <40% TW
2	9	93	0.89	2	C01	-0.06	C/L THINNING	In Service <40% TW
2	10	92	1.15	11	C01	-0.16	C/L THINNING	In Service <40% TW
2	11	4	0.81	28	C01	-0.24	C/L THINNING	In Service <40% TW
2	12	4	0.96	1	C01	-0.21	C/L THINNING	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	19	6	1.14	10	C01	0	C/L THINNING	In Service <40% TW
2	24	8	1.6	25	C01	-0.15	C/L THINNING	In Service <40% TW
2	24	8	0.39	VOL	C01	-0.19	C/L THINNING	In Service <40% TW
2	24	9	0.77	21	C01	0.03	C/L THINNING	In Service <40% TW
2	27	85	0.86	15	C01	-0.24	C/L THINNING	In Service <40% TW
2	28	11	1.73	29	C01	-0.2	C/L THINNING	In Service <40% TW
2	28	11	0.66	VOL	C01	-0.15	C/L THINNING	In Service <40% TW
2	28	11	0.17	VOL	C01	0.11	C/L THINNING	In Service <40% TW
2	28	12	1.24	28	C02	-0.24	C/L THINNING	In Service <40% TW
2	30	15	0.36	13	C02	0.17	C/L THINNING	In Service <40% TW
2	30	15	0.17	VOL	C02	0.14	C/L THINNING	In Service <40% TW
2	30	16	0.58	23	C02	0.21	C/L THINNING	In Service <40% TW
2	30	82	0.62	15	C02	-0.08	C/L THINNING	In Service <40% TW
2	30	82	0.25	VOL	C02	0.05	C/L THINNING	In Service <40% TW
2	31	15	0.28	35	C03	-0.06	C/L THINNING	In Service <40% TW
2	31	15	0.23	VOL	C03	0.01	C/L THINNING	In Service <40% TW
2	31	80	0.47	14	C02	-0.05	C/L THINNING	In Service <40% TW
2	32	17	0.34	1	C03	-0.18	C/L THINNING	In Service <40% TW
2	33	19	1.05	1	C01	-0.24	C/L THINNING	In Service <40% TW
2	33	71	0.44	11	C02	-0.29	C/L THINNING	In Service <40% TW
2	33	74	0.74	21	C02	-0.18	C/L THINNING	In Service <40% TW
2	33	78	1.67	34	C02	-0.21	C/L THINNING	In Service <40% TW
2	33	78	0.36	VOL	C02	-0.24	C/L THINNING	In Service <40% TW
2	34	16	0.93	24	C01	-0.12	C/L THINNING	In Service <40% TW
2	34	16	0.16	VOL	C01	-0.21	C/L THINNING	In Service <40% TW
2	34	78	1	28	C02	-0.21	C/L THINNING	In Service <40% TW
2	36	18	1.81	24	C01	0.09	C/L THINNING	In Service <40% TW
2	36	18	0.52	VOL	C01	-0.01	C/L THINNING	In Service <40% TW
2	36	20	2.37	31	C01	-0.15	C/L THINNING	In Service <40% TW
2	36	20	0.39	VOL	C01	-0.16	C/L THINNING	In Service <40% TW
2	36	22	0.61	6	C01	-0.21	C/L THINNING	In Service <40% TW
2	36	76	2.5	47	C02	-0.17	C/L THINNING	PLUG
2	36	76	0.94	VOL	C02	-0.15	C/L THINNING	PLUG
2	38	21	0.61	11	C01	-0.15	C/L THINNING	In Service <40% TW
2	38	22	0.57	12	C03	0	C/L THINNING	In Service <40% TW
2	38	24	1.18	18	C01	0.12	C/L THINNING	In Service <40% TW
2	38	73	0.85	9	C02	-0.27	C/L THINNING	In Service <40% TW
2	38	74	1.01	12	C02	0.13	C/L THINNING	In Service <40% TW
2	39	70	0.91	36	C02	-0.11	C/L THINNING	In Service <40% TW
2	39	73	0.52	36	C02	-0.03	C/L THINNING	In Service <40% TW
2	40	24	0.86	25	C02	-0.27	C/L THINNING	In Service <40% TW
2	40	24	1.89	37	C01	-0.12	C/L THINNING	In Service <40% TW
2	40	24	0.87	VOL	C01	-0.11	C/L THINNING	In Service <40% TW
2	40	25	0.47	24	C01	0.15	C/L THINNING	In Service <40% TW
2	40	27	0.88	23	C01	-0.18	C/L THINNING	In Service <40% TW
2	40	67	1	14	C02	0.11	C/L THINNING	In Service <40% TW
2	40	68	0.59	<20	C02	-0.08	C/L THINNING	In Service <40% TW
2	40	71	0.64	26	C03	-0.21	C/L THINNING	In Service <40% TW
2	41	26	0.67	13	C02	-0.33	C/L THINNING	In Service <40% TW
2	41	27	0.56	29	C01	-0.23	C/L THINNING	In Service <40% TW
2	41	27	0.4	VOL	C01	-0.21	C/L THINNING	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	41	29	0.76	29	C01	-0.03	C/L THINNING	In Service <40% TW
2	41	33	0.46	29	C02	-0.23	C/L THINNING	In Service <40% TW
2	41	33	0.26	VOL	C02	-0.24	C/L THINNING	In Service <40% TW
2	41	36	0.94	1	C02	-0.22	C/L THINNING	In Service <40% TW
2	41	69	0.83	12	C01	0.16	C/L THINNING	In Service <40% TW
2	42	28	0.68	10	C01	-0.21	C/L THINNING	In Service <40% TW
2	42	29	1.02	23	C01	0.12	C/L THINNING	In Service <40% TW
2	42	36	0.77	27	C01	-0.21	C/L THINNING	In Service <40% TW
2	42	64	1.98	34	C01	0.18	C/L THINNING	In Service <40% TW
2	42	64	0.58	VOL	C01	0.12	C/L THINNING	In Service <40% TW
2	42	65	1.21	6	C01	0.19	C/L THINNING	In Service <40% TW
2	42	66	0.67	19	C01	0.05	C/L THINNING	In Service <40% TW
2	42	67	0.51	6	C01	0.16	C/L THINNING	In Service <40% TW
2	43	32	2.74	32	C01	0.12	C/L THINNING	In Service <40% TW
2	43	32	0.4	VOL	C01	0.12	C/L THINNING	In Service <40% TW
2	43	57	0.6	15	C02	0.18	C/L THINNING	In Service <40% TW
2	43	58	0.51	<20	C02	0.21	C/L THINNING	In Service <40% TW
2	43	62	0.92	21	C01	0.19	C/L THINNING	In Service <40% TW
2	43	63	0.53	23	C01	0	C/L THINNING	In Service <40% TW
2	43	64	0.53	13	C01	0.1	C/L THINNING	In Service <40% TW
2	43	64	0.46	VOL	C01	0.14	C/L THINNING	In Service <40% TW
2	44	39	1.25	21	C02	-0.25	C/L THINNING	In Service <40% TW
2	44	57	0.72	10	C02	0.15	C/L THINNING	In Service <40% TW
2	44	57	0.33	VOL	C02	0.17	C/L THINNING	In Service <40% TW
2	45	37	0.8	<20	C02	0.22	C/L THINNING	In Service <40% TW
2	45	40	1.01	28	C01	-0.08	C/L THINNING	In Service <40% TW
2	45	43	0.59	20	C01	-0.3	C/L THINNING	In Service <40% TW
2	45	46	0.38	23	C01	-0.24	C/L THINNING	In Service <40% TW
2	45	50	0.36	<20	C01	0	C/L THINNING	In Service <40% TW
2	45	50	0.17	VOL	C01	0.04	C/L THINNING	In Service <40% TW
2	45	59	0.4	<20	C02	0.3	C/L THINNING	In Service <40% TW
2	45	59	1.68	33	C02	-0.19	C/L THINNING	In Service <40% TW
2	45	59	0.54	VOL	C02	-0.21	C/L THINNING	In Service <40% TW
2	45	59	0.13	VOL	C02	0.28	C/L THINNING	In Service <40% TW
2	46	48	0.81	14	C01	0.08	C/L THINNING	In Service <40% TW
2	46	53	0.35	<20	C01	0.19	C/L THINNING	In Service <40% TW
3	2	1	0.51	4	C01	-0.06	C/L THINNING	In Service <40% TW
3	5	1	0.88	21	C01	0.06	C/L THINNING	In Service <40% TW
3	6	2	0.72	36	C01	-0.06	C/L THINNING	In Service <40% TW
3	6	2	0.57	VOL	C01	-0.07	C/L THINNING	In Service <40% TW
3	7	1	1.47	36	C01	0.06	C/L THINNING	In Service <40% TW
3	7	1	0.69	VOL	C01	0.04	C/L THINNING	In Service <40% TW
3	7	2	0.55	<20	C02	0.06	C/L THINNING	In Service <40% TW
3	7	2	0.43	1	C01	-0.21	C/L THINNING	In Service <40% TW
3	7	2	0.32	VOL	C01	-0.15	C/L THINNING	In Service <40% TW
3	10	2	1.2	31	C01	0.12	C/L THINNING	In Service <40% TW
3	10	2	0.85	VOL	C01	0.14	C/L THINNING	In Service <40% TW
3	11	90	0.36	28	C01	-0.25	C/L THINNING	In Service <40% TW
3	11	92	1.19	28	C01	-0.14	C/L THINNING	In Service <40% TW
3	12	3	0.37	10	C01	0	C/L THINNING	In Service <40% TW
3	14	3	0.42	13	C01	-0.09	C/L THINNING	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	14	3	0.34	VOL	C01	-0.07	C/L THINNING	In Service <40% TW
3	17	91	0.57	1	C01	-0.11	C/L THINNING	In Service <40% TW
3	25	9	0.4	32	C01	0.06	C/L THINNING	In Service <40% TW
3	27	84	1.2	28	C01	-0.22	C/L THINNING	In Service <40% TW
3	29	83	0.73	<20	C01	-0.14	C/L THINNING	In Service <40% TW
3	30	83	0.26	21	C02	-0.06	C/L THINNING	In Service <40% TW
3	30	83	1.25	26	C01	-0.22	C/L THINNING	In Service <40% TW
3	30	83	0.33	38	C02	0.14	C/L THINNING	In Service <40% TW
3	33	78	0.94	16	C01	-0.19	C/L THINNING	In Service <40% TW
3	33	79	2.03	42	C01	-0.06	C/L THINNING	PLUG
3	33	79	0.85	VOL	C01	-0.08	C/L THINNING	PLUG
3	34	16	0.41	12	C01	-0.12	C/L THINNING	In Service <40% TW
3	34	16	0.47	19	C02	-0.18	C/L THINNING	In Service <40% TW
3	34	78	0.38	1	C01	-0.03	C/L THINNING	In Service <40% TW
3	35	17	0.4	<20	C01	-0.03	C/L THINNING	In Service <40% TW
3	35	17	0.71	19	C02	-0.16	C/L THINNING	In Service <40% TW
3	35	78	1.13	3	C01	0.06	C/L THINNING	In Service <40% TW
3	36	19	0.3	<20	C02	0.15	C/L THINNING	In Service <40% TW
3	36	74	1.75	31	C01	0.08	C/L THINNING	In Service <40% TW
3	36	74	0.72	5	C01	-0.22	C/L THINNING	In Service <40% TW
3	36	74	0.79	VOL	C01	0.08	C/L THINNING	In Service <40% TW
3	36	76	0.57	6	C01	-0.19	C/L THINNING	In Service <40% TW
3	38	74	1.22	22	C01	-0.14	C/L THINNING	In Service <40% TW
3	39	68	0.91	28	C01	0.03	C/L THINNING	In Service <40% TW
3	39	71	0.19	25	C01	-0.08	C/L THINNING	In Service <40% TW
3	39	73	0.87	8	C01	-0.19	C/L THINNING	In Service <40% TW
3	40	24	0.37	<20	C02	-0.29	C/L THINNING	In Service <40% TW
3	40	24	0.22	VOL	C02	-0.31	C/L THINNING	In Service <40% TW
3	40	26	1.03	24	C02	-0.23	C/L THINNING	In Service <40% TW
3	42	28	0.68	34	C01	0	C/L THINNING	In Service <40% TW
3	42	34	0.36	<20	C01	-0.06	C/L THINNING	In Service <40% TW
3	42	60	0.38	17	C01	-0.22	C/L THINNING	In Service <40% TW
3	43	30	2.19	51	C01	-0.12	C/L THINNING	PLUG
3	43	30	0.85	VOL	C01	-0.11	C/L THINNING	PLUG
3	43	31	0.78	<20	C01	0.24	C/L THINNING	In Service <40% TW
3	43	31	0.38	VOL	C01	0.16	C/L THINNING	In Service <40% TW
3	43	62	0.76	1	C01	0	C/L THINNING	In Service <40% TW
3	44	33	0.93	6	C01	0.15	C/L THINNING	In Service <40% TW
3	44	56	0.61	28	C01	0.06	C/L THINNING	In Service <40% TW
3	44	57	0.8	19	C01	-0.22	C/L THINNING	In Service <40% TW
3	44	58	0.36	24	C01	0.11	C/L THINNING	In Service <40% TW
3	44	58	0.15	VOL	C01	0.16	C/L THINNING	In Service <40% TW
3	44	60	0.42	33	C01	-0.19	C/L THINNING	In Service <40% TW
3	45	40	0.49	15	C03	-0.24	C/L THINNING	In Service <40% TW
3	45	52	1.57	39	C01	-0.14	C/L THINNING	In Service <40% TW
3	45	52	0.95	VOL	C01	-0.06	C/L THINNING	In Service <40% TW
3	45	53	0.87	1	C01	0.14	C/L THINNING	In Service <40% TW
3	45	58	1.22	47	C01	-0.17	C/L THINNING	PLUG
3	45	58	0.62	VOL	C01	-0.18	C/L THINNING	PLUG
3	46	41	0.72	<20	C02	-0.26	C/L THINNING	In Service <40% TW
3	46	47	0.8	1	C02	-0.17	C/L THINNING	In Service <40% TW

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	46	47	0.31	VOL	C02	-0.06	C/L THINNING	In Service <40% TW
3	46	51	0.34	8	C01	-0.06	C/L THINNING	In Service <40% TW
3	46	51	0.14	VOL	C01	-0.02	C/L THINNING	In Service <40% TW
4	6	2	0.35	<20	C01	-0.37	C/L THINNING	In Service <40% TW
4	7	94	1.06	26	C01	-0.18	C/L THINNING	In Service <40% TW
4	11	3	0.89	12	C01	-0.27	C/L THINNING	In Service <40% TW
4	17	91	0.78	1	C01	-0.11	C/L THINNING	In Service <40% TW
4	18	88	0.7	1	C01	-0.08	C/L THINNING	In Service <40% TW
4	19	7	0.58	<20	C01	-0.33	C/L THINNING	In Service <40% TW
4	27	11	0.56	<20	C01	-0.3	C/L THINNING	In Service <40% TW
4	30	14	0.38	<20	C01	-0.34	C/L THINNING	In Service <40% TW
4	30	15	0.64	<20	C01	-0.3	C/L THINNING	In Service <40% TW
4	31	13	2.28	19	C01	-0.3	C/L THINNING	In Service <40% TW
4	31	13	0.32	VOL	C01	-0.09	C/L THINNING	In Service <40% TW
4	34	76	0.76	15	C02	0.17	C/L THINNING	In Service <40% TW
4	34	79	0.3	<20	C04	-0.3	C/L THINNING	In Service <40% TW
4	37	19	0.62	7	C01	-0.18	C/L THINNING	In Service <40% TW
4	39	22	1.43	27	C02	-0.24	C/L THINNING	In Service <40% TW
4	39	31	0.38	<20	C02	-0.26	C/L THINNING	In Service <40% TW
4	39	71	0.4	<20	C02	0	C/L THINNING	In Service <40% TW
4	40	63	0.68	34	C02	-0.15	C/L THINNING	In Service <40% TW
4	40	71	1.24	39	C02	-0.23	C/L THINNING	In Service <40% TW
4	41	30	0.62	13	C02	-0.27	C/L THINNING	In Service <40% TW
4	41	34	0.68	9	C02	-0.27	C/L THINNING	In Service <40% TW
4	41	58	1.62	34	C02	-0.19	C/L THINNING	In Service <40% TW
4	41	58	0.48	VOL	C02	-0.16	C/L THINNING	In Service <40% TW
4	41	62	3.29	24	C02	-0.23	C/L THINNING	In Service <40% TW
4	41	62	0.7	VOL	C02	-0.17	C/L THINNING	In Service <40% TW
4	42	44	0.89	11	C02	-0.14	C/L THINNING	In Service <40% TW
4	43	35	0.83	1	C02	0.09	C/L THINNING	In Service <40% TW
4	43	47	0.39	18	C02	-0.21	C/L THINNING	In Service <40% TW
4	43	54	1.38	28	C02	-0.17	C/L THINNING	In Service <40% TW
4	44	34	2.06	34	C02	-0.24	C/L THINNING	In Service <40% TW
4	44	34	0.87	VOL	C02	-0.15	C/L THINNING	In Service <40% TW
4	44	38	0.83	29	C02	-0.21	C/L THINNING	In Service <40% TW
4	44	39	0.73	1	C02	-0.21	C/L THINNING	In Service <40% TW
4	44	47	0.31	<20	C02	-0.26	C/L THINNING	In Service <40% TW
4	45	36	0.59	1	C02	-0.27	C/L THINNING	In Service <40% TW
4	45	41	0.31	<20	C02	-0.33	C/L THINNING	In Service <40% TW
4	45	42	1.22	18	C02	-0.21	C/L THINNING	In Service <40% TW
4	45	44	0.81	5	C02	-0.21	C/L THINNING	In Service <40% TW
4	45	45	1.55	29	C02	-0.27	C/L THINNING	In Service <40% TW
4	45	50	0.79	37	C02	-0.15	C/L THINNING	In Service <40% TW
4	45	54	0.41	16	C02	0	C/L THINNING	In Service <40% TW
4	45	57	2.35	29	C02	-0.2	C/L THINNING	In Service <40% TW
4	45	57	0.99	VOL	C02	-0.12	C/L THINNING	In Service <40% TW
4	46	52	0.6	1	C02	0.11	C/L THINNING	In Service <40% TW
4	46	52	0.32	VOL	C02	0.12	C/L THINNING	In Service <40% TW
4	46	53	1.31	29	C02	0.22	C/L THINNING	In Service <40% TW
2	8	3	0.14	SAI	H01	1.35	ODSCC FREESPAN AXIAL	PLUG
2	11	65	0.19	SAI	HTS	2.91	ODSCC FREESPAN AXIAL	PLUG

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	11	65	0.11	SAI	HTS	3.05	ODSCC FREESPAN AXIAL	PLUG
2	14	21	0.21	SAI	H01	26.79	ODSCC FREESPAN AXIAL	PLUG
3	4	3	0.39	SAI	HTS	8.29	ODSCC FREESPAN AXIAL	PLUG
3	4	3	0.67	SAI	HTS	21.73	ODSCC FREESPAN AXIAL	PLUG
3	4	3	0.27	SAI	HTS	22.6	ODSCC FREESPAN AXIAL	PLUG
3	4	3	0.56	SAI	HTS	23.28	ODSCC FREESPAN AXIAL	PLUG
2	13	68	0.17	SAI	HTS	0	ODSCC HTS AXIAL	PLUG
3	11	45	0.2	SAI	HTS	0.03	ODSCC HTS AXIAL	PLUG
3	11	45	0.12	SAI	HTS	0.04	ODSCC HTS AXIAL	PLUG
3	18	45	0.16	SAI	HTS	0.01	ODSCC HTS AXIAL	PLUG
3	18	45	0.16	SAI	HTS	0.08	ODSCC HTS AXIAL	PLUG
4	25	59	0.16	SAI	HTS	-0.34	ODSCC HTS AXIAL	PLUG
1	20	47	0.18	SCI	HTS	0.01	ODSCC HTS CIRC	PLUG
2	10	31	0.11	SCI	HTS	0.07	ODSCC HTS CIRC	PLUG
2	10	52	0.25	SCI	HTS	0.05	ODSCC HTS CIRC	PLUG
2	20	64	0.11	SCI	HTS	0.04	ODSCC HTS CIRC	PLUG
2	22	62	0.16	SCI	HTS	0	ODSCC HTS CIRC	PLUG
2	29	52	0.11	SCI	HTS	-0.07	ODSCC HTS CIRC	PLUG
2	29	52	0.08	SCI	HTS	-0.06	ODSCC HTS CIRC	PLUG
3	7	73	0.16	SCI	HTS	-0.08	ODSCC HTS CIRC	PLUG
3	8	63	0.12	SCI	HTS	-0.04	ODSCC HTS CIRC	PLUG
3	8	73	0.1	SCI	HTS	-0.06	ODSCC HTS CIRC	PLUG
3	15	54	0.15	SCI	HTS	-0.13	ODSCC HTS CIRC	PLUG
3	24	50	0.1	SCI	HTS	-0.01	ODSCC HTS CIRC	PLUG
3	29	51	0.21	SCI	HTS	0.03	ODSCC HTS CIRC	PLUG
3	30	59	0.21	SCI	HTS	0	ODSCC HTS CIRC	PLUG
4	8	57	0.14	SCI	HTS	-0.07	ODSCC HTS CIRC	PLUG
4	17	58	0.19	SCI	HTS	-0.12	ODSCC HTS CIRC	PLUG
1	2	1	0.41	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
1	2	8	0.72	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	2	8	0.29	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	2	10	0.73	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	2	12	0.54	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	2	12	0.19	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	2	13	0.41	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	2	18	0.38	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	2	18	0.35	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
1	3	1	0.53	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
1	3	15	1.49	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	3	15	0.83	DSI	H05	0.12	ODSCC TSP AXIAL	In Service via APC
1	3	15	0.28	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
1	3	17	1.08	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	3	17	1.55	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	3	17	0.37	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
1	3	17	0.25	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
1	3	17	0.5	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
1	3	20	0.47	SAI	H02	0.36	ODSCC TSP AXIAL	PLUG
1	3	25	0.78	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	3	26	0.78	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	3	27	0.67	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	3	34	1.04	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	3	42	0.33	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	3	46	1.49	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	3	46	0.43	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	3	46	0.37	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	3	46	0.37	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
1	3	47	0.52	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	3	47	0.41	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	3	52	0.74	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	3	70	0.68	DSI	H04	0.21	ODSCC TSP AXIAL	In Service via APC
1	4	6	1.02	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	4	6	0.12	SAI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
1	4	7	0.72	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	4	7	0.79	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	4	8	0.44	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	4	8	0.52	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	4	9	0.35	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	4	9	0.39	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	4	9	0.11	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
1	4	9	0.14	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	4	9	0.13	SAI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
1	4	11	0.91	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	4	15	0.95	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
1	4	17	0.22	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	4	32	0.58	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	4	39	0.81	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	4	40	0.49	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	4	40	0.3	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	4	78	0.76	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
1	4	81	1.16	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
1	4	81	0.48	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	4	81	0.24	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
1	5	3	0.84	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
1	5	7	0.39	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	5	7	1.11	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
1	5	7	0.27	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	5	11	0.45	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	13	0.35	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	5	17	0.84	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	5	24	0.37	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
1	5	26	0.48	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	5	26	0.64	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	31	0.65	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	5	31	0.82	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	5	32	0.9	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	5	32	0.66	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	5	33	0.65	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	5	34	0.63	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	5	35	0.72	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
1	5	35	0.6	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	36	0.49	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	5	43	0.58	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	5	44	0.53	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	46	0.96	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	5	50	0.4	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	5	51	0.45	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	54	0.73	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	5	56	0.56	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	5	72	0.47	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
1	5	72	0.72	DSI	H03	-0.15	ODSCC TSP AXIAL	In Service via APC
1	5	72	0.15	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
1	5	72	0.16	SAI	H03	-0.12	ODSCC TSP AXIAL	In Service via APC
1	5	80	0.8	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	5	81	0.46	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	5	81	1.19	DSI	H05	0	ODSCC TSP AXIAL	PLUG
1	5	81	0.13	SAI	H05	0	ODSCC TSP AXIAL	PLUG
1	6	1	0.72	DSI	H03	-0.06	ODSCC TSP AXIAL	PLUG
1	6	1	0.13	SAI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	6	2	0.7	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	6	2	1.09	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	2	0.85	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	6	3	0.69	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	6	4	0.82	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	6	9	0.68	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	6	14	0.57	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	14	0.22	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	6	15	0.78	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	6	15	0.93	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	6	19	0.85	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
1	6	19	0.92	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	6	21	1.15	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	6	21	0.51	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	6	24	0.26	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	6	24	0.29	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	26	0.57	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	6	27	0.39	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	29	0.52	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	33	0.17	DSI	C02	-0.06	ODSCC TSP AXIAL	In Service via APC
1	6	35	0.34	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	6	38	0.24	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
1	6	45	0.47	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	6	54	0.39	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	6	73	0.36	DSI	C04	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	91	0.99	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	6	93	0.69	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	6	94	0.83	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	7	3	0.62	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
1	7	10	0.41	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	7	20	0.62	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	8	3	0.8	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	8	3	1.43	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	8	3	0.97	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	8	3	0.13	SAI	H02	0.35	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	8	3	0.16	SAI	H02	0.36	ODSCC TSP AXIAL	In Service via APC
1	8	3	0.21	SAI	H02	0.37	ODSCC TSP AXIAL	In Service via APC
1	8	4	0.98	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	8	6	0.73	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	8	12	0.78	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	8	21	0.58	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
1	8	21	0.32	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	8	33	0.3	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	8	50	0.6	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	8	63	0.33	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	9	19	0.64	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	9	23	0.23	DSI	C04	0	ODSCC TSP AXIAL	In Service via APC
1	9	25	0.68	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	9	28	0.36	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
1	9	30	0.59	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	9	32	0.25	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	9	34	0.6	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
1	9	39	0.96	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	9	41	0.83	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	9	43	0.62	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	9	92	1.22	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	9	92	0.16	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
1	10	3	0.51	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
1	10	34	0.73	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
1	10	37	0.41	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
1	10	70	0.89	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	10	70	1.02	DSI	H03	0.02	ODSCC TSP AXIAL	In Service via APC
1	10	75	0.91	DSI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
1	10	75	0.95	DSI	H02	-0.1	ODSCC TSP AXIAL	In Service via APC
1	10	75	0.49	DSI	H06	-0.03	ODSCC TSP AXIAL	In Service via APC
1	10	77	0.46	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
1	10	77	0.42	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	10	77	0.94	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	10	78	0.74	DSI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
1	10	84	0.53	DSI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
1	11	3	0.49	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
1	11	3	0.87	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
1	11	4	0.46	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
1	11	18	0.31	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	11	58	0.98	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
1	11	61	0.49	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	11	88	0.55	DSI	H04	0.05	ODSCC TSP AXIAL	In Service via APC
1	11	93	1.2	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	11	93	0.14	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	11	93	0.1	SAI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	11	93	0.2	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
1	12	3	0.37	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	12	3	1.33	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
1	12	3	0.62	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
1	12	4	0.47	DSI	C03	0.06	ODSCC TSP AXIAL	In Service via APC
1	12	5	0.57	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	12	5	0.25	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
1	12	6	0.28	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
1	12	10	0.27	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
1	12	24	0.35	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	12	24	0.17	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
1	12	43	0.26	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	12	44	0.23	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	12	46	0.34	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	12	48	0.17	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	13	9	0.93	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	13	10	0.56	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	13	42	0.27	DSI	H07	0.06	ODSCC TSP AXIAL	In Service via APC
1	13	54	0.87	DSI	H03	0.31	ODSCC TSP AXIAL	In Service via APC
1	13	62	0.35	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
1	13	62	0.24	DSI	H06	0.08	ODSCC TSP AXIAL	In Service via APC
1	13	89	0.7	DSI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
1	14	4	0.51	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	14	5	0.44	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
1	14	5	1.07	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	14	5	0.1	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
1	14	10	0.25	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	15	5	0.65	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	15	14	0.2	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	15	18	0.96	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
1	15	18	0.24	SAI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	15	31	1.52	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	15	31	0.2	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
1	15	82	0.3	DSI	C04	0	ODSCC TSP AXIAL	In Service via APC
1	16	29	1.18	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	16	30	0.48	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	16	30	0.12	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	16	86	0.67	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	17	4	1.39	DSI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.43	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	17	4	1.34	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.64	DSI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.54	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.37	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.41	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.12	SAI	H03	0.3	ODSCC TSP AXIAL	In Service via APC
1	17	4	0.19	SAI	H03	0.34	ODSCC TSP AXIAL	In Service via APC
1	17	16	0.38	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	17	20	0.66	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	17	21	0.24	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	17	24	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	17	33	1.29	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
1	17	33	0.11	SAI	H02	-0.23	ODSCC TSP AXIAL	In Service via APC
1	17	33	0.13	SAI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
1	17	33	0.17	SAI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
1	17	33	0.14	SAI	H02	-0.07	ODSCC TSP AXIAL	In Service via APC
1	17	33	0.11	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	17	77	0.7	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
1	17	82	0.26	DSI	H05	-0.02	ODSCC TSP AXIAL	In Service via APC
1	18	6	0.82	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	18	6	0.21	DSI	H07	0	ODSCC TSP AXIAL	In Service via APC
1	18	7	0.28	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
1	18	8	0.59	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	18	17	0.49	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	18	19	1.41	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
1	18	21	0.47	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	18	21	0.28	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	18	21	0.09	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	18	24	1.05	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
1	18	24	0.24	SAI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
1	18	57	0.73	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
1	18	82	0.23	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	18	89	0.8	DSI	H05	0.11	ODSCC TSP AXIAL	In Service via APC
1	19	8	0.75	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
1	19	8	0.66	DSI	H05	0.15	ODSCC TSP AXIAL	In Service via APC
1	19	13	0.44	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	19	45	0.62	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	19	45	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	19	51	0.68	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	19	66	0.92	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	19	67	0.48	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	19	68	0.32	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	19	74	0.59	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
1	19	77	0.84	DSI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
1	19	77	0.4	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	20	9	0.58	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	20	10	0.23	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	20	12	0.41	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	20	12	0.39	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	20	12	0.21	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
1	20	32	0.27	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	20	32	0.64	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	20	51	0.68	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	20	58	0.49	DSI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
1	20	65	1.13	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
1	20	65	0.26	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	20	65	0.29	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
1	20	67	0.42	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	21	7	1.21	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	21	7	0.81	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	21	7	0.24	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
1	21	7	0.2	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
1	21	7	0.15	SAI	H01	0.35	ODSCC TSP AXIAL	In Service via APC
1	21	7	0.28	SAI	H01	0.36	ODSCC TSP AXIAL	In Service via APC
1	21	8	0.84	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	21	8	1.04	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	21	8	0.15	DSI	H04	0.15	ODSCC TSP AXIAL	In Service via APC
1	21	8	0.1	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	21	8	0.19	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
1	21	8	0.15	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
1	21	10	0.28	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	21	14	0.52	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	21	71	0.7	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	21	73	0.3	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	21	74	0.48	DSI	H04	0.07	ODSCC TSP AXIAL	In Service via APC
1	21	76	0.37	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
1	21	78	0.81	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	21	83	0.97	DSI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
1	21	87	1.18	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	21	87	0.14	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
1	21	87	0.14	SAI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
1	21	88	0.92	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	22	9	0.94	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	22	10	0.67	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	22	11	0.81	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	22	12	0.23	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	22	12	0.2	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
1	22	14	0.38	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	22	17	0.98	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	22	19	0.61	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	22	21	0.39	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	22	25	1.11	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
1	22	25	0.09	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	22	25	0.1	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	22	28	0.49	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
1	22	31	0.43	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	22	33	0.67	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	22	46	0.67	DSI	H04	0.23	ODSCC TSP AXIAL	In Service via APC
1	22	47	0.57	DSI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
1	22	48	1.42	DSI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
1	22	48	0.15	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	22	48	0.17	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
1	22	48	0.19	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
1	22	50	0.86	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
1	22	67	0.61	DSI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
1	22	68	0.31	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	22	72	0.23	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
1	23	7	1.38	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	23	7	0.1	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
1	23	9	0.24	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	23	9	0.49	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	23	10	0.63	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	23	10	1.47	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	23	10	0.1	SAI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
1	23	11	0.75	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	23	12	0.34	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	23	12	0.56	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	23	14	0.38	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	23	14	0.43	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	23	15	0.53	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	23	20	0.62	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	23	23	1.24	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
1	23	23	0.1	SAI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
1	23	31	0.61	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
1	23	32	0.24	DSI	H04	0.05	ODSCC TSP AXIAL	In Service via APC
1	23	48	0.23	DSI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
1	23	64	0.54	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
1	24	9	0.99	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	24	12	1.09	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	24	15	0.42	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	24	15	0.14	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
1	24	17	0.77	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	24	21	1.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	24	21	1.58	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.87	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.44	DSI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.32	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.18	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.1	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.1	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
1	24	21	0.11	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
1	24	22	0.74	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	24	25	0.76	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	24	29	0.81	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	24	29	0.99	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	24	34	0.83	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	24	35	0.32	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	24	46	0.33	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	24	60	0.87	DSI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
1	24	73	0.53	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
1	25	8	0.77	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	25	8	1.05	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
1	25	8	0.72	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	25	14	0.19	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	25	14	0.33	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	25	25	0.71	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	25	32	0.41	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	25	37	0.45	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	25	38	0.97	DSI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
1	25	77	0.61	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
1	26	11	0.53	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
1	26	17	0.54	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	26	20	0.41	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	26	22	0.7	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	26	25	0.2	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	26	30	0.7	DSI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
1	26	49	1.27	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	26	49	0.07	SAI	H02	-0.02	ODSCC TSP AXIAL	In Service via APC
1	26	49	0.19	SAI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
1	26	49	0.22	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	26	54	1.14	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	26	54	0.13	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	26	63	0.31	DSI	C03	0.05	ODSCC TSP AXIAL	In Service via APC
1	26	64	0.94	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	26	68	0.8	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	26	86	0.22	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
1	27	13	0.58	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	27	16	0.61	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	27	18	0.19	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	27	18	0.66	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	27	19	0.53	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	27	21	0.38	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	27	21	0.19	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	27	24	0.39	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	27	25	0.82	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	27	31	0.55	DSI	H03	0.13	ODSCC TSP AXIAL	In Service via APC
1	27	48	0.4	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	27	48	1.44	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	27	48	0.15	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	27	48	0.3	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
1	27	52	1.17	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	27	52	0.11	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	27	52	0.29	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	27	55	1.25	DSI	H03	0.31	ODSCC TSP AXIAL	In Service via APC
1	27	58	0.33	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	27	60	1	DSI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
1	27	60	0.6	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
1	27	82	0.38	DSI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
1	28	10	0.62	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	28	10	0.73	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	28	10	0.21	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
1	28	11	1.11	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	28	11	0.09	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
1	28	11	0.2	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	28	12	0.69	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	28	12	0.35	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	28	16	0.66	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	28	17	0.7	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
1	28	21	1.25	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	28	21	0.35	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	28	26	0.56	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	28	27	0.5	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	28	28	0.72	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	28	28	0.21	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
1	28	31	0.73	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	28	40	0.28	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
1	28	43	1.69	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	28	43	0.1	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	28	43	0.19	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
1	28	43	0.29	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
1	28	45	0.89	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	28	46	1.08	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
1	28	46	0.83	DSI	H06	0.23	ODSCC TSP AXIAL	In Service via APC
1	28	46	0.17	SAI	H02	-0.04	ODSCC TSP AXIAL	In Service via APC
1	28	50	0.91	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	28	56	1.13	DSI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
1	28	57	0.44	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	28	77	0.86	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	28	79	0.37	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	28	79	0.31	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	29	39	0.62	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	29	50	0.74	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	29	51	0.51	DSI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
1	29	51	0.1	SAI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	29	51	0.25	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	29	52	1.23	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	29	52	0.22	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	29	52	0.3	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
1	29	55	1.25	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
1	29	55	0.22	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
1	29	55	0.11	SAI	H02	0.04	ODSCC TSP AXIAL	In Service via APC
1	29	55	0.14	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	29	55	0.11	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
1	29	56	0.69	DSI	H03	0.07	ODSCC TSP AXIAL	In Service via APC
1	29	74	0.28	DSI	H05	0.05	ODSCC TSP AXIAL	In Service via APC
1	30	19	0.76	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
1	30	24	0.36	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
1	30	41	0.5	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	30	49	0.79	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
1	30	50	0.33	DSI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
1	30	50	0.88	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	30	50	0.19	SAI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
1	30	62	0.28	DSI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
1	30	75	0.26	DSI	H03	0.13	ODSCC TSP AXIAL	In Service via APC
1	30	82	0.69	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	30	82	1.03	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	30	82	0.5	DSI	H03	0.02	ODSCC TSP AXIAL	In Service via APC
1	30	82	0.2	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
1	31	19	0.68	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	31	19	0.67	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	31	21	0.84	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	31	33	0.36	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	31	54	1.16	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	31	54	0.17	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	31	56	0.35	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	31	59	0.34	DSI	H04	-0.13	ODSCC TSP AXIAL	In Service via APC
1	31	62	0.28	DSI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
1	31	64	0.46	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	31	68	0.59	DSI	H04	0.05	ODSCC TSP AXIAL	In Service via APC
1	31	70	0.59	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	31	82	0.37	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	32	17	1.21	DSI	H01	0.14	ODSCC TSP AXIAL	PLUG

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	32	17	1.29	DSI	H02	0.09	ODSCC TSP AXIAL	PLUG
1	32	17	0.17	SAI	H01	0.14	ODSCC TSP AXIAL	PLUG
1	32	17	0.14	SAI	H02	0.19	ODSCC TSP AXIAL	PLUG
1	32	17	0.16	SAI	H02	0.25	ODSCC TSP AXIAL	PLUG
1	32	40	0.27	DSI	H03	0.13	ODSCC TSP AXIAL	In Service via APC
1	32	42	0.56	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
1	32	42	-0.71	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	32	44	0.53	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
1	32	48	0.75	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	32	49	0.46	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	32	52	0.96	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	32	53	1.01	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	32	53	0.7	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	32	53	0.15	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	32	53	0.24	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
1	32	54	0.98	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
1	32	57	0.7	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	32	59	0.52	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	32	63	0.22	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
1	32	65	0.28	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
1	32	71	0.93	DSI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
1	32	73	0.87	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	32	74	1.26	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	32	77	0.37	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
1	32	79	0.56	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	33	17	1.22	DSI	H01	0.22	ODSCC TSP AXIAL	PLUG
1	33	17	0.87	DSI	H03	0.15	ODSCC TSP AXIAL	PLUG
1	33	17	0.19	SAI	H01	0.22	ODSCC TSP AXIAL	PLUG
1	33	27	0.48	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	33	42	0.27	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	33	43	0.48	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	33	50	1.3	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	33	50	0.25	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
1	33	67	0.78	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
1	33	67	0.44	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	33	71	0.86	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	33	72	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	33	75	0.33	DSI	H05	0.13	ODSCC TSP AXIAL	In Service via APC
1	33	76	0.31	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	34	22	0.88	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
1	34	23	0.41	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	34	23	0.75	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
1	34	23	0.1	SAI	H03	-0.17	ODSCC TSP AXIAL	In Service via APC
1	34	23	0.1	SAI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	34	28	0.25	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	34	30	0.52	DSI	H03	-0.08	ODSCC TSP AXIAL	In Service via APC
1	34	74	0.56	DSI	H04	0.07	ODSCC TSP AXIAL	In Service via APC
1	35	17	1.3	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	17	0.6	DSI	H03	0.18	ODSCC TSP AXIAL	In Service via APC
1	35	17	0.46	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
1	35	17	0.12	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	35	17	0.26	SAI	H02	0.36	ODSCC TSP AXIAL	In Service via APC
1	35	17	0.14	SAI	H02	0.37	ODSCC TSP AXIAL	In Service via APC
1	35	19	0.96	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	19	0.61	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	19	0.77	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
1	35	19	0.62	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	21	0.71	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	21	0.58	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	21	0.54	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
1	35	22	1.18	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.55	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.96	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.11	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.07	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.2	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.38	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
1	35	22	0.35	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
1	35	23	1.44	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	35	23	0.53	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
1	35	23	0.39	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
1	35	23	0.14	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
1	35	30	0.89	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	30	0.73	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	35	30	0.49	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	32	0.49	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	35	32	0.35	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	32	0.19	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
1	35	33	0.89	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	35	33	0.4	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
1	35	35	0.35	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
1	35	42	1.29	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	35	42	0.14	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	35	44	0.47	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
1	35	47	1.02	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	35	78	0.43	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
1	36	21	1.27	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	36	21	0.11	SAI	H03	0.04	ODSCC TSP AXIAL	In Service via APC
1	36	25	0.56	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	36	35	0.75	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	36	42	0.43	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	36	47	0.37	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	36	54	0.38	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	36	62	0.72	DSI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
1	36	62	0.65	DSI	H03	0.02	ODSCC TSP AXIAL	In Service via APC
1	36	62	0.85	DSI	H04	0.2	ODSCC TSP AXIAL	In Service via APC
1	37	32	0.2	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	37	32	0.13	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
1	37	40	0.77	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	37	60	0.25	DSI	H05	0.13	ODSCC TSP AXIAL	In Service via APC
1	37	61	1.11	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	37	61	0.43	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	37	61	0.64	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	37	63	0.34	DSI	C02	0	ODSCC TSP AXIAL	In Service via APC
1	38	24	0.41	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
1	38	40	0.69	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	38	46	0.75	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	38	51	0.4	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	38	63	0.53	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	38	64	0.4	DSI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
1	38	65	0.45	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	38	65	0.75	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
1	38	72	0.28	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
1	39	27	0.41	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
1	39	30	0.35	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	39	30	0.14	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
1	39	36	0.52	DSI	H05	0.13	ODSCC TSP AXIAL	In Service via APC
1	39	40	0.24	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
1	39	46	0.93	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	39	48	0.67	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	39	55	0.15	DSI	C04	0.06	ODSCC TSP AXIAL	In Service via APC
1	39	70	0.33	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
1	40	24	1.53	DSI	H02	-0.15	ODSCC TSP AXIAL	PLUG
1	40	24	0.22	SAI	H01	0.09	ODSCC TSP AXIAL	PLUG
1	40	24	0.85	SAI	H01	0.37	ODSCC TSP AXIAL	PLUG
1	40	24	0.3	SAI	H02	0.29	ODSCC TSP AXIAL	PLUG
1	40	25	1.01	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	40	25	1.31	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	40	25	0.63	DSI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
1	40	25	0.21	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
1	40	25	0.29	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
1	40	25	0.24	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
1	40	26	0.94	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
1	40	26	0.64	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	40	26	0.73	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
1	40	27	0.67	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	40	32	0.28	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
1	40	32	0.26	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
1	40	34	0.23	DSI	H06	0.11	ODSCC TSP AXIAL	In Service via APC
1	40	36	0.56	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	40	38	0.14	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
1	40	48	1.23	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	40	51	1.4	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	40	70	0.63	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
1	41	32	0.34	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
1	41	37	1.47	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	42	33	0.33	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	42	37	1.24	DSI	H07	-0.05	ODSCC TSP AXIAL	PLUG
1	42	37	0.22	SAI	H07	-0.05	ODSCC TSP AXIAL	PLUG
1	42	40	0.17	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	42	40	0.71	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	42	40	0.36	DSI	H07	-0.13	ODSCC TSP AXIAL	In Service via APC
1	42	49	0.65	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
1	42	62	0.6	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
1	43	38	0.49	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
1	43	40	0.19	DSI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
1	43	45	0.98	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
1	43	46	0.6	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	43	59	1.47	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	43	59	0.11	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
1	44	33	0.32	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
1	44	37	1.06	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	44	40	0.4	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	44	40	0.27	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
1	44	42	1.14	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	44	42	0.53	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
1	44	42	0.31	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
1	44	45	1.05	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
1	44	50	0.48	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
1	44	56	0.59	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
1	44	57	1.14	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
1	45	37	0.65	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
1	45	44	1.25	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
1	45	47	0.55	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
1	45	47	1.13	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	45	47	0.99	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
1	45	49	0.38	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
1	45	51	0.73	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
1	45	54	0.27	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
1	45	55	0.23	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
1	46	41	0.45	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
1	46	50	0.82	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	1	76	0.84	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
2	2	2	0.29	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	2	0.18	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	2	14	0.34	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	22	0.38	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	30	0.26	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
2	2	37	0.52	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	2	42	0.26	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	43	0.9	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	45	1.16	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	46	0.66	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	47	1	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	47	0.28	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	2	48	0.51	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	49	0.21	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	49	0.41	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
2	2	50	0.69	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	55	0.44	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	55	0.7	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	56	0.81	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	57	0.48	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	57	0.11	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	2	58	0.97	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	2	58	1.54	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	58	0.12	SAI	H02	0.04	ODSCC TSP AXIAL	In Service via APC
2	2	58	0.12	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	2	58	0.39	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
2	2	61	0.74	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
2	2	61	0.89	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	62	0.43	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	63	0.63	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	2	66	1.21	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	66	0.09	SAI	H02	-0.01	ODSCC TSP AXIAL	In Service via APC
2	2	70	0.28	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	73	0.6	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	73	0.94	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	76	0.83	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
2	2	77	0.37	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	2	77	0.22	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	2	82	1.26	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
2	2	82	0.14	SAI	H04	0.04	ODSCC TSP AXIAL	In Service via APC
2	2	82	0.13	SAI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
2	2	83	0.7	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
2	2	83	0.38	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	2	83	0.83	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
2	2	84	0.56	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	2	85	0.91	DSI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
2	2	85	0.56	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	2	85	0.38	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	2	87	1	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	2	87	0.16	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
2	2	87	0.18	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	2	88	0.64	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	88	0.85	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	2	88	0.52	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	88	0.31	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
2	2	90	0.37	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	2	94	0.65	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	2	94	0.76	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	2	94	0.52	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
2	3	12	0.15	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	16	0.46	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	3	17	0.24	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	3	30	0.59	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	3	31	0.3	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	3	31	0.84	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	3	37	0.72	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	38	0.09	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	3	42	1.84	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	42	0.58	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	42	0.14	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	3	42	0.29	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
2	3	49	0.34	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	3	49	0.7	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	3	51	1.28	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	3	51	0.08	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
2	3	61	1.8	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	3	61	0.14	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	61	0.18	SAI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
2	3	62	0.38	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	3	66	0.86	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	72	0.83	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	3	72	0.65	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	3	76	0.92	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	3	86	0.25	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
2	3	88	0.61	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	3	91	0.66	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
2	3	92	0.33	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	4	1	0.37	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	1	0.29	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	22	0.26	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	4	26	1	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	26	0.1	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	26	0.39	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
2	4	27	0.56	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	29	0.11	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	4	36	1.35	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	36	0.36	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	4	36	0.18	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
2	4	45	0.39	DSI	C05	0.15	ODSCC TSP AXIAL	In Service via APC
2	4	45	0.82	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	4	45	0.69	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
2	4	50	0.73	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	4	50	0.32	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	4	51	0.22	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	4	54	0.96	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
2	4	56	1.11	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	56	0.15	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
2	4	56	0.17	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
2	4	57	0.12	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	4	57	0.2	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
2	4	59	0.78	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	59	1.43	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	59	0.11	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
2	4	61	0.6	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	4	64	0.67	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	71	0.95	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	77	0.14	DSI	H06	-0.06	ODSCC TSP AXIAL	PLUG
2	4	91	1.11	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	91	0.15	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
2	4	92	0.34	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	4	92	0.82	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	92	0.49	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
2	4	92	0.65	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	4	92	0.59	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
2	4	92	0.1	SAI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
2	4	94	0.6	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
2	4	94	0.89	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	1	0.39	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	5	5	0.37	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	5	6	0.64	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	27	0.26	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	28	0.32	DSI	C04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	44	0.44	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	5	59	0.62	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	5	60	0.74	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	5	60	0.18	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	5	65	0.5	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	5	65	0.98	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	5	66	0.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	5	81	0.59	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	5	91	0.72	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	5	92	0.9	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	5	93	1.09	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	93	0.81	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	5	93	0.24	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
2	5	93	0.16	SAI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	5	93	0.11	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	5	94	0.36	DSI	C04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	5	94	0.52	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
2	6	1	0.49	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	3	0.66	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	6	4	0.34	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	6	4	0.85	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
2	6	12	0.09	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
2	6	13	0.27	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	6	16	0.55	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	6	21	0.65	DSI	H02	-0.21	ODSCC TSP AXIAL	In Service via APC
2	6	24	0.3	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	6	32	0.46	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	6	38	0.62	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	39	0.65	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	6	40	0.53	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	6	40	0.22	DSI	H05	-0.09	ODSCC TSP AXIAL	In Service via APC
2	6	41	0.66	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	41	0.17	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	6	43	0.42	DSI	C01	0.09	ODSCC TSP AXIAL	In Service via APC
2	6	43	1.48	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
2	6	43	1.45	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	43	0.21	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	6	48	1	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	6	48	0.25	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	6	48	0.23	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
2	6	55	0.25	DSI	C02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	57	0.4	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	6	68	0.3	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
2	6	70	0.41	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	6	79	0.78	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	84	0.62	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	6	90	0.69	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	6	90	0.1	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	6	94	0.77	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	1	0.35	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	7	2	0.71	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	4	0.68	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	7	4	0.73	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	7	0.5	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	7	8	0.91	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	7	9	0.51	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	7	9	0.29	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	7	10	0.5	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	7	12	0.43	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	13	0.39	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	7	13	0.48	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	7	13	0.37	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	7	17	0.47	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	21	0.58	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	21	0.32	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
2	7	21	0.22	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	7	27	0.51	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	7	32	0.72	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	38	0.17	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	42	0.14	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	7	43	0.85	DSI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
2	7	44	1.02	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	7	44	0.12	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
2	7	48	1.12	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	48	0.16	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	7	48	0.49	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
2	7	49	0.48	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	7	57	1.12	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
2	7	58	1.1	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	7	58	0.12	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	58	0.19	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	7	58	0.09	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	7	67	0.44	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	68	0.35	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	68	0.34	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	7	71	0.46	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	72	0.35	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	89	0.78	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	7	91	0.55	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	7	91	0.76	DSI	H02	-0.24	ODSCC TSP AXIAL	In Service via APC
2	8	3	1.14	DSI	H01	0.15	ODSCC TSP AXIAL	PLUG
2	8	3	0.16	SAI	H01	0.17	ODSCC TSP AXIAL	PLUG
2	8	3	0.19	SAI	H01	0.18	ODSCC TSP AXIAL	PLUG

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	8	11	0.49	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	13	0.4	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	34	0.16	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	8	38	0.6	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	8	42	0.29	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	8	44	1.18	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	44	0.1	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	8	44	0.17	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
2	8	45	0.95	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	47	0.54	DSI	C03	0.18	ODSCC TSP AXIAL	In Service via APC
2	8	47	0.94	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	51	1.14	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	8	51	0.68	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	51	0.18	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	8	51	0.14	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
2	8	60	0.53	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	8	61	0.79	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	61	0.48	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	8	62	0.36	DSI	H07	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	64	0.72	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	8	68	0.27	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	8	69	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	8	70	0.49	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	8	70	0.1	SAI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
2	8	71	0.77	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	8	82	0.3	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	87	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	8	88	1.2	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	8	88	0.15	SAI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
2	8	90	0.63	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	90	0.49	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	8	91	0.71	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	8	93	0.29	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	9	4	0.32	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	9	14	0.42	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	9	22	0.38	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
2	9	23	0.29	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	9	24	0.49	DSI	H06	-0.27	ODSCC TSP AXIAL	In Service via APC
2	9	29	0.16	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
2	9	32	0.53	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	9	33	1.09	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
2	9	33	0.21	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
2	9	33	0.1	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	9	34	0.44	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	9	36	0.44	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	9	40	0.63	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	9	41	0.73	DSI	H02	-0.26	ODSCC TSP AXIAL	In Service via APC
2	9	41	0.27	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	9	41	0.76	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
2	9	41	0.17	SAI	H05	0.12	ODSCC TSP AXIAL	In Service via APC
2	9	48	0.63	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	9	50	0.28	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	9	53	0.65	DSI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
2	9	57	0.35	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
2	9	69	0.35	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	9	72	0.26	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	9	72	0.74	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
2	9	91	1.47	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	9	91	0.31	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	9	91	0.13	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	10	4	0.96	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	10	13	0.31	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	10	18	1.77	DSI	C05	0.15	ODSCC TSP AXIAL	In Service via APC
2	10	31	0.54	DSI	H01	0.03	ODSCC TSP AXIAL	PLUG
2	10	31	1.18	DSI	H02	-0.14	ODSCC TSP AXIAL	PLUG
2	10	31	0.61	DSI	H04	0.09	ODSCC TSP AXIAL	PLUG
2	10	31	0.17	SAI	H01	0.23	ODSCC TSP AXIAL	PLUG
2	10	31	0.1	SAI	H02	-0.13	ODSCC TSP AXIAL	PLUG
2	10	31	0.14	SAI	H02	0.03	ODSCC TSP AXIAL	PLUG
2	10	31	0.11	SAI	H02	0.13	ODSCC TSP AXIAL	PLUG
2	10	32	0.38	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
2	10	46	0.52	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
2	10	71	0.89	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	10	71	0.18	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
2	10	71	0.11	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
2	10	89	0.95	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	10	89	0.17	SAI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
2	11	21	0.86	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	11	25	0.36	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	11	25	0.18	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	11	57	0.5	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
2	11	63	0.65	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	11	65	0.98	DSI	H02	0.08	ODSCC TSP AXIAL	PLUG
2	11	65	0.35	DSI	H04	0.11	ODSCC TSP AXIAL	PLUG
2	11	67	1.59	DSI	H02	-0.13	ODSCC TSP AXIAL	In Service via APC
2	11	67	1.14	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	11	67	0.09	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	11	75	1.06	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	11	75	0.09	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	11	75	0.11	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
2	11	88	0.59	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	12	6	1.01	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	12	44	0.89	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	12	51	0.25	DSI	C03	0	ODSCC TSP AXIAL	In Service via APC
2	12	59	0.43	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	12	59	0.52	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	12	60	0.36	DSI	C02	-0.05	ODSCC TSP AXIAL	In Service via APC
2	12	85	0.72	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	12	90	0.43	DSI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
2	13	9	0.25	DSI	C05	-0.03	ODSCC TSP AXIAL	In Service via APC
2	13	15	0.31	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
2	13	21	0.51	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	13	68	0.92	DSI	H01	0.03	ODSCC TSP AXIAL	PLUG
2	13	68	0.65	DSI	H02	-0.05	ODSCC TSP AXIAL	PLUG
2	13	89	0.92	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	14	11	0.43	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	14	18	0.38	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	14	47	0.55	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	14	84	0.93	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
2	14	86	1.39	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	14	86	0.88	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
2	14	90	0.62	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	14	90	0.62	DSI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
2	15	5	1.06	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	15	5	0.3	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	15	5	0.25	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	15	5	0.22	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	15	32	0.58	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	15	36	0.95	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	15	40	1.27	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
2	15	40	0.15	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
2	15	40	0.29	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
2	15	49	0.72	DSI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
2	15	49	0.73	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	15	87	1.07	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	15	87	0.82	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	15	87	0.11	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	15	87	0.09	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	15	89	1.58	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.19	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.23	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.21	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.23	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.18	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	15	89	0.34	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
2	16	11	1.05	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	16	11	0.14	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
2	16	33	0.4	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	16	48	0.45	DSI	H05	0.05	ODSCC TSP AXIAL	In Service via APC
2	16	48	0.09	SAI	H05	-0.08	ODSCC TSP AXIAL	In Service via APC
2	16	60	0.69	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	16	80	0.52	DSI	H03	0.13	ODSCC TSP AXIAL	In Service via APC
2	16	89	0.3	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	17	41	0.67	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	17	49	0.58	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	17	70	0.25	DSI	H05	0.05	ODSCC TSP AXIAL	In Service via APC
2	17	77	0.33	DSI	C04	0.05	ODSCC TSP AXIAL	In Service via APC
2	17	86	0.79	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	18	7	1.12	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	18	7	0.1	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
2	18	7	0.14	SAI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
2	18	7	0.15	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
2	18	11	1.27	DSI	H01	0.32	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	18	11	0.22	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
2	18	11	0.24	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
2	18	11	0.21	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
2	18	14	0.38	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	18	22	0.65	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	18	52	0.81	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	18	56	0.78	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	18	65	0.73	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	18	65	0.17	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
2	19	15	0.38	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	19	22	0.49	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	19	22	0.85	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	19	61	0.45	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	19	63	0.51	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	19	68	0.19	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	19	69	0.65	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	19	70	0.14	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	20	10	0.49	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	20	22	0.46	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
2	20	33	0.88	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
2	20	33	0.36	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
2	20	43	0.8	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
2	20	44	0.5	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	20	49	0.68	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	20	49	0.83	DSI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
2	20	52	1.17	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	20	52	0.15	SAI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
2	20	52	0.44	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	20	56	0.92	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	20	57	0.63	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	20	58	0.59	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	20	62	0.63	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	20	64	0.36	DSI	H05	0.05	ODSCC TSP AXIAL	PLUG
2	20	65	0.55	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	20	89	0.53	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	21	9	0.76	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	21	20	1.19	DSI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
2	21	20	0.43	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	21	20	0.14	SAI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
2	21	20	0.12	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
2	21	20	0.25	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
2	21	61	0.54	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	21	64	0.54	DSI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
2	21	69	0.67	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	21	87	0.84	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	22	16	0.81	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	22	30	0.78	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	22	34	0.49	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	22	36	0.46	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	22	37	0.27	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
2	22	58	1.23	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	22	58	0.18	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
2	22	58	0.4	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
2	22	68	0.29	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	22	69	0.65	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	22	73	0.72	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
2	23	11	0.46	DSI	C03	0.18	ODSCC TSP AXIAL	In Service via APC
2	23	17	0.77	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	23	22	0.69	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	23	25	0.33	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	23	25	0.19	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
2	23	44	1.34	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	23	44	0.57	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
2	23	44	0.22	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	23	49	1.39	DSI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
2	23	49	0.3	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	23	49	0.52	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
2	23	55	0.48	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	23	70	0.46	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	23	72	0.19	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	23	73	1.62	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	23	73	0.17	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	23	73	0.11	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	23	73	0.1	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
2	23	74	0.31	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	23	85	0.45	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	23	85	0.79	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	23	86	1.28	DSI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	24	8	0.41	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	24	8	0.14	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
2	24	12	0.21	DSI	C04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	24	37	0.64	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	24	37	1.28	DSI	H04	0.29	ODSCC TSP AXIAL	In Service via APC
2	24	37	0.21	SAI	H04	0.29	ODSCC TSP AXIAL	In Service via APC
2	24	38	0.56	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	24	43	1.12	DSI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
2	24	43	0.21	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
2	24	43	0.27	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
2	24	50	0.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	24	60	0.71	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	24	60	0.13	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	24	65	0.81	DSI	H02	-0.16	ODSCC TSP AXIAL	In Service via APC
2	24	87	1.31	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	24	87	0.55	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
2	24	87	0.26	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
2	24	87	0.15	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
2	25	9	0.24	DSI	H07	0	ODSCC TSP AXIAL	In Service via APC
2	25	22	0.51	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	25	43	0.65	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	25	56	0.98	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
2	25	66	0.73	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	25	68	0.3	DSI	H03	-0.08	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	25	72	0.58	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	25	72	0.6	DSI	H04	0.13	ODSCC TSP AXIAL	In Service via APC
2	25	73	0.35	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
2	25	75	0.65	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	26	11	0.31	DSI	C04	-0.15	ODSCC TSP AXIAL	In Service via APC
2	26	17	0.59	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	26	18	0.95	DSI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	26	59	1.09	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.64	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.41	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.14	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.11	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.46	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	26	59	0.51	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	27	53	0.83	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	27	68	1.84	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
2	27	68	0.68	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	27	68	0.15	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
2	27	68	0.34	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
2	27	68	0.36	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
2	27	84	1.2	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	27	84	0.97	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	27	84	0.1	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	27	84	0.41	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
2	27	84	0.39	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
2	28	12	0.57	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	28	12	0.75	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	28	14	0.49	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	28	17	1.02	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	28	17	0.17	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
2	28	25	0.41	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	28	60	0.47	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	28	66	0.51	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	28	69	0.53	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	28	73	0.98	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
2	28	79	0.74	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	29	11	0.43	DSI	C01	-0.24	ODSCC TSP AXIAL	In Service via APC
2	29	12	0.54	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
2	29	16	0.7	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
2	29	16	0.97	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	29	16	0.6	DSI	H05	0.12	ODSCC TSP AXIAL	In Service via APC
2	29	17	0.77	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	29	20	0.85	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	29	21	1.01	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	29	21	0.17	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
2	29	45	0.2	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	29	61	0.66	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	29	61	0.42	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
2	29	67	0.63	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	29	79	0.3	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	29	79	0.58	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	30	16	0.59	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	30	17	0.77	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	30	19	0.62	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	30	20	0.53	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	30	20	0.27	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
2	30	20	0.13	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
2	30	21	0.81	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	30	22	0.74	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	30	45	0.42	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
2	30	46	0.34	DSI	C02	0.12	ODSCC TSP AXIAL	In Service via APC
2	30	54	1.63	DSI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
2	30	54	0.75	DSI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
2	30	54	0.31	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	30	54	0.43	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
2	30	55	1.39	DSI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	30	55	1.18	DSI	H02	-0.21	ODSCC TSP AXIAL	In Service via APC
2	30	55	0.4	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
2	30	55	0.44	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
2	30	55	0.17	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	30	68	1.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	30	68	0.19	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
2	30	68	0.21	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
2	30	68	0.14	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
2	30	70	0.42	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	30	74	1.73	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	30	74	0.26	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	30	74	0.14	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	30	76	1.1	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	30	77	0.66	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	30	77	0.69	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
2	30	79	0.98	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	30	81	1.47	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	30	81	0.96	DSI	H04	0.05	ODSCC TSP AXIAL	In Service via APC
2	30	81	0.32	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
2	30	81	0.1	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	30	81	0.1	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	30	81	0.31	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	30	82	0.47	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	30	83	0.88	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	30	83	0.82	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	31	16	0.42	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	31	25	0.54	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	31	38	1.22	DSI	H01	0.04	ODSCC TSP AXIAL	PLUG
2	31	38	0.53	DSI	H04	0.03	ODSCC TSP AXIAL	PLUG
2	31	38	0.19	SAI	H01	0.04	ODSCC TSP AXIAL	PLUG
2	31	39	0.51	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	31	43	0.77	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	31	43	0.25	SAI	H03	0.04	ODSCC TSP AXIAL	In Service via APC
2	31	47	0.72	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	31	48	0.81	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
2	31	66	0.68	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	31	67	0.63	DSI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	31	67	0.48	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	31	70	1.37	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	31	70	1.27	DSI	H02	-0.13	ODSCC TSP AXIAL	In Service via APC
2	31	70	0.22	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
2	31	70	0.35	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
2	31	70	0.33	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	31	70	0.36	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
2	31	70	0.18	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	31	74	0.33	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	31	74	0.78	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	32	17	0.96	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
2	32	19	0.29	DSI	C01	-0.21	ODSCC TSP AXIAL	In Service via APC
2	32	20	1.23	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
2	32	20	1.16	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.61	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.25	SAI	H01	-0.04	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.27	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.37	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.16	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.15	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.17	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
2	32	20	0.2	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
2	32	21	0.53	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	32	23	0.81	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	32	26	0.45	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	32	32	0.58	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	32	61	0.69	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	32	63	0.3	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	33	17	0.2	DSI	C01	-0.06	ODSCC TSP AXIAL	In Service via APC
2	33	31	1.31	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	33	31	0.38	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	33	31	0.12	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	33	31	0.13	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
2	33	31	0.18	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
2	33	50	0.19	DSI	H07	0.09	ODSCC TSP AXIAL	In Service via APC
2	34	72	0.22	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	34	73	0.36	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	35	42	0.32	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	35	44	0.64	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	35	45	0.4	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	35	51	0.28	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	35	53	0.36	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	35	58	0.52	DSI	H04	0.13	ODSCC TSP AXIAL	In Service via APC
2	35	59	0.48	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	35	61	0.56	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
2	35	72	0.3	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
2	35	75	0.4	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
2	36	31	0.48	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	36	33	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	36	42	0.34	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	36	42	1.04	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	36	42	0.12	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
2	36	63	0.35	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	36	64	1.18	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
2	36	64	0.14	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
2	36	64	0.16	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	36	64	0.24	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	36	71	1.36	DSI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
2	36	71	0.99	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	36	71	0.19	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
2	36	71	0.22	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
2	36	71	0.11	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
2	36	74	0.6	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	36	75	1.04	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	36	75	0.12	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	36	75	0.15	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	36	75	0.18	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
2	37	20	1.03	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	37	20	0.12	SAI	H01	-0.04	ODSCC TSP AXIAL	In Service via APC
2	37	20	0.18	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
2	37	20	0.22	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
2	37	23	0.54	DSI	C01	-0.29	ODSCC TSP AXIAL	In Service via APC
2	37	26	0.54	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	37	43	0.83	DSI	H02	-0.19	ODSCC TSP AXIAL	In Service via APC
2	37	43	0.23	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	37	55	0.74	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	37	55	0.1	SAI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	37	55	0.14	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
2	37	55	0.24	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
2	37	66	0.28	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	38	25	0.47	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	38	26	0.52	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
2	38	26	1.21	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	38	28	0.46	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	38	32	0.53	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	38	32	0.84	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
2	38	33	0.74	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	38	33	0.57	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
2	38	33	0.47	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
2	38	45	1.24	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	38	45	0.8	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	38	45	0.1	SAI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
2	38	45	0.31	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	38	45	0.14	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	38	49	0.97	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	38	53	0.32	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	38	59	0.37	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	38	66	0.32	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
2	38	74	0.36	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	39	25	0.38	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
2	39	25	0.52	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	39	31	0.36	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	39	37	0.52	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	39	38	1.15	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	39	38	0.13	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	39	40	0.25	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	39	55	0.58	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	39	55	0.32	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
2	39	58	0.67	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	39	59	0.43	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	39	62	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	39	70	0.66	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	39	70	0.22	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
2	40	29	0.7	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	40	29	0.21	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	40	31	0.28	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	40	37	0.58	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	40	40	0.71	DSI	H03	0.18	ODSCC TSP AXIAL	In Service via APC
2	40	41	0.96	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
2	40	42	0.18	DSI	C02	0	ODSCC TSP AXIAL	In Service via APC
2	40	48	0.48	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
2	40	55	0.15	DSI	C02	0.03	ODSCC TSP AXIAL	In Service via APC
2	40	57	0.45	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	40	60	0.41	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	40	64	0.29	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	40	64	0.62	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
2	41	34	0.6	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	41	36	0.4	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
2	41	37	0.55	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	41	37	1.17	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	41	37	0.24	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
2	41	37	0.48	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	41	37	0.18	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
2	41	37	0.25	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
2	41	39	0.34	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	41	41	0.48	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	41	41	0.67	DSI	H04	0.19	ODSCC TSP AXIAL	In Service via APC
2	41	41	0.75	DSI	H05	0.16	ODSCC TSP AXIAL	In Service via APC
2	41	41	0.16	SAI	H04	0.25	ODSCC TSP AXIAL	In Service via APC
2	41	43	1.04	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	41	43	0.54	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
2	41	43	0.11	SAI	H02	-0.07	ODSCC TSP AXIAL	In Service via APC
2	41	43	0.16	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
2	41	50	1.36	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
2	41	50	0.61	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
2	41	50	0.14	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
2	41	50	0.37	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
2	41	50	0.23	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
2	41	54	0.36	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
2	41	54	1.07	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	41	54	0.99	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
2	41	54	0.11	SAI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	41	55	0.74	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
2	41	65	0.98	DSI	H05	0.05	ODSCC TSP AXIAL	In Service via APC
2	41	67	0.79	DSI	H01	-0.13	ODSCC TSP AXIAL	In Service via APC
2	41	69	0.48	DSI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
2	42	34	0.7	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	42	37	0.47	DSI	H05	0.11	ODSCC TSP AXIAL	In Service via APC
2	42	43	0.44	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
2	42	50	0.55	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
2	42	51	0.42	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	42	61	0.64	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
2	42	66	0.88	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	42	66	1.34	DSI	H06	0.05	ODSCC TSP AXIAL	In Service via APC
2	42	66	0.24	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
2	42	67	1.76	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
2	43	38	0.7	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	43	43	1.1	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	43	43	0.36	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	43	43	0.14	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
2	43	43	0.13	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
2	43	43	0.25	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	43	43	0.24	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
2	43	44	0.45	DSI	H03	-0.05	ODSCC TSP AXIAL	In Service via APC
2	43	47	0.5	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	43	49	0.4	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	43	50	0.9	DSI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
2	43	50	0.42	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.68	DSI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.82	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.3	DSI	H03	0.14	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.09	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.25	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
2	43	52	0.17	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
2	43	53	0.54	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
2	43	54	0.66	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
2	43	65	0.56	DSI	C01	-0.18	ODSCC TSP AXIAL	In Service via APC
2	44	35	1.03	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
2	44	37	0.35	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
2	44	39	0.54	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	44	40	0.5	DSI	C01	0.36	ODSCC TSP AXIAL	In Service via APC
2	44	44	1.05	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	44	45	0.35	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	44	48	0.34	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	44	52	1.41	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	44	52	0.19	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	44	52	0.16	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
2	45	39	0.32	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
2	45	39	0.5	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
2	45	42	0.59	DSI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
2	45	48	0.5	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
2	45	49	0.15	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
2	45	51	0.8	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
2	45	52	0.32	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
2	45	52	0.8	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
2	45	54	0.61	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
2	45	54	0.19	SAI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
2	45	54	0.2	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
2	45	55	0.45	DSI	C01	-0.27	ODSCC TSP AXIAL	In Service via APC
2	45	56	0.53	DSI	C01	-0.24	ODSCC TSP AXIAL	In Service via APC
2	46	50	0.23	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
2	46	50	0.41	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	1	74	1.97	DSI	C01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	1	74	1.07	DSI	H04	-0.12	ODSCC TSP AXIAL	In Service via APC
3	1	76	0.57	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	1	79	1.03	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	1	79	1.41	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	1	82	0.4	DSI	C01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	1	84	0.77	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
3	2	2	0.22	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	2	16	0.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	2	25	0.56	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	2	25	0.66	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
3	2	25	0.42	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
3	2	30	0.75	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	2	31	0.36	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	2	31	0.37	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
3	2	32	0.26	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	2	33	0.37	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	2	35	1.06	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	2	35	0.1	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	2	38	0.21	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	2	38	0.22	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	2	39	0.9	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	2	39	0.81	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
3	2	58	0.46	DSI	C01	0.12	ODSCC TSP AXIAL	In Service via APC
3	2	73	0.52	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	2	79	0.64	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	3	1	0.78	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	3	1	0.52	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	3	2	0.49	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	3	2	0.56	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	3	2	0.63	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	3	3	0.29	DSI	H05	-0.06	ODSCC TSP AXIAL	In Service via APC
3	3	3	0.52	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
3	3	5	1.24	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	3	5	0.77	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
3	3	5	0.13	SAI	H01	-0.16	ODSCC TSP AXIAL	In Service via APC
3	3	5	0.32	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	3	7	0.24	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
3	3	10	1.46	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	3	10	0.11	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
3	3	10	0.54	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	3	16	0.67	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	3	19	0.63	DSI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	3	19	0.67	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
3	3	23	0.94	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	3	24	0.32	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	3	24	0.37	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	3	29	1.29	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	3	29	0.56	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	3	29	0.25	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	3	34	0.8	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	3	34	0.32	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	3	49	0.52	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	3	51	0.63	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	3	94	0.86	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
3	3	94	0.47	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
3	4	13	0.73	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	4	15	0.33	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	4	25	1.21	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	4	25	0.14	SAI	H02	-0.16	ODSCC TSP AXIAL	In Service via APC
3	4	25	0.11	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
3	4	25	0.13	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	4	26	0.54	DSI	H01	-0.21	ODSCC TSP AXIAL	In Service via APC
3	4	27	0.4	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	4	34	0.8	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	4	39	0.93	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	4	46	1.33	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	4	46	0.19	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	4	46	0.57	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	4	48	0.36	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	4	50	0.77	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	4	50	0.51	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
3	4	51	0.82	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	4	54	0.43	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	4	55	0.44	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	4	55	0.91	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	4	60	1.13	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	4	60	0.15	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
3	4	60	0.33	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
3	4	85	0.58	DSI	C03	-0.03	ODSCC TSP AXIAL	In Service via APC
3	5	1	1.18	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	5	1	1.61	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	5	1	0.15	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	5	4	1.15	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	5	4	0.3	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	5	4	0.75	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	5	4	0.52	DSI	H06	-0.03	ODSCC TSP AXIAL	In Service via APC
3	5	4	0.2	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	5	4	0.75	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	5	5	0.6	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
3	5	5	0.36	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	5	10	0.96	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	5	12	0.74	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	5	13	0.38	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	5	17	0.67	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	5	18	0.3	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	5	22	0.95	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	5	85	0.7	DSI	C01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	6	1	1.01	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	6	1	0.18	SAI	H01	-0.04	ODSCC TSP AXIAL	In Service via APC
3	6	5	0.72	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	6	10	0.98	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	6	11	0.44	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	6	30	1.03	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	6	30	0.17	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	6	30	0.13	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	6	30	0.1	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	6	37	0.86	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	6	38	1.05	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	6	38	0.36	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	6	38	0.59	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	6	38	0.56	DSI	H04	-0.18	ODSCC TSP AXIAL	In Service via APC
3	6	38	0.22	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	6	40	0.24	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
3	6	50	0.32	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	6	75	0.25	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	6	77	0.24	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	6	79	0.5	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	6	79	0.28	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	6	87	0.59	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	6	87	0.17	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
3	6	94	0.4	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	1	1.05	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	6	0.61	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	14	1.13	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	7	14	0.46	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	14	0.07	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	7	14	0.23	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	7	24	0.63	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	25	0.79	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	25	0.55	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	29	0.68	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	7	35	0.29	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	38	0.27	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	42	0.82	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
3	7	56	0.63	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	7	56	0.86	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	58	0.73	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	60	0.72	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
3	7	61	0.51	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	61	0.43	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	7	61	0.11	SAI	H03	0.23	ODSCC TSP AXIAL	In Service via APC
3	7	64	0.9	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
3	7	67	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	7	67	0.1	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	7	70	1.07	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	7	70	0.09	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
3	7	71	0.88	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	71	1.53	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	7	71	0.67	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	7	71	0.31	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
3	7	71	0.25	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
3	7	72	0.73	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	7	72	1.23	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	72	0.14	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	7	72	0.15	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
3	7	73	0.39	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	7	73	0.36	DSI	H05	0.03	ODSCC TSP AXIAL	PLUG
3	7	73	0.55	DSI	H06	-0.03	ODSCC TSP AXIAL	PLUG
3	7	78	0.53	DSI	C06	-0.03	ODSCC TSP AXIAL	PLUG
3	7	81	0.41	DSI	H06	-0.12	ODSCC TSP AXIAL	In Service via APC
3	7	85	0.43	DSI	C02	0.03	ODSCC TSP AXIAL	In Service via APC
3	7	85	0.41	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
3	7	91	0.9	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
3	7	92	0.62	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
3	7	92	1.04	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	7	92	0.12	SAI	H03	0.26	ODSCC TSP AXIAL	In Service via APC
3	7	92	0.19	SAI	H03	0.27	ODSCC TSP AXIAL	In Service via APC
3	7	93	0.71	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	7	93	1.53	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	7	93	0.98	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	7	93	0.1	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
3	7	93	0.32	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
3	7	94	0.57	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
3	8	6	0.3	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	8	6	0.47	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	8	7	1.02	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	7	0.37	SAI	H03	0.19	ODSCC TSP AXIAL	In Service via APC
3	8	13	0.23	DSI	H06	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	15	0.66	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	8	18	0.85	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	8	18	0.63	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
3	8	19	0.78	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	8	22	0.67	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	8	24	0.65	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	8	28	0.66	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	42	0.46	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
3	8	42	0.14	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
3	8	49	0.87	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	8	50	0.93	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	8	50	0.68	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	51	0.38	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
3	8	52	0.72	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
3	8	55	0.41	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	8	57	0.35	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	8	57	0.36	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	59	0.63	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	8	63	0.54	DSI	H01	0.03	ODSCC TSP AXIAL	PLUG
3	8	63	0.97	DSI	H02	-0.15	ODSCC TSP AXIAL	PLUG
3	8	64	0.53	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	67	0.54	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
3	8	68	0.37	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	69	0.75	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	8	70	0.44	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	8	70	0.25	DSI	H05	-0.09	ODSCC TSP AXIAL	In Service via APC
3	9	3	0.21	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	9	4	0.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	5	1.2	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	5	0.39	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	9	6	0.31	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
3	9	7	0.69	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	8	1.09	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	8	0.17	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	9	10	0.45	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	9	11	0.88	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	12	0.76	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	9	13	0.6	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	9	13	0.69	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	9	14	0.87	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
3	9	15	0.92	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	9	16	0.63	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	9	20	0.5	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
3	9	21	0.97	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	9	23	0.78	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
3	9	40	0.29	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	9	41	0.91	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	9	48	1.58	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	9	48	1.08	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.21	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.52	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.53	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.12	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.11	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	9	48	0.16	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
3	9	50	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	9	51	1.42	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	9	51	0.13	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	9	51	0.23	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	9	52	0.46	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	9	62	0.31	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	10	5	0.63	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	10	6	0.41	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	10	14	1.13	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	10	14	0.09	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	10	14	0.18	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
3	10	42	0.39	DSI	C03	0.08	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	10	60	0.52	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	11	5	0.65	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	11	5	0.45	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	11	6	0.83	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	11	6	0.67	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
3	11	7	0.59	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	11	11	1.28	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	11	11	0.19	SAI	H01	-0.04	ODSCC TSP AXIAL	In Service via APC
3	11	11	0.36	SAI	H01	-0.02	ODSCC TSP AXIAL	In Service via APC
3	11	11	0.27	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	11	11	0.58	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
3	11	16	0.35	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	11	16	0.14	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
3	11	17	1.38	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	11	17	0.45	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
3	11	17	0.13	SAI	H02	-0.02	ODSCC TSP AXIAL	In Service via APC
3	11	17	0.16	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
3	11	27	0.5	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	11	36	1.45	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	11	36	0.27	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	11	37	1.29	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	11	37	0.19	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	11	37	0.26	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	11	46	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	11	52	0.51	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	12	22	0.59	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	12	27	0.4	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	12	35	0.95	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	12	35	0.84	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	12	35	0.86	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	12	38	0.59	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	12	58	0.44	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	3	0.98	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	3	0.73	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	13	5	0.3	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	13	7	0.25	DSI	C02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	13	7	1.2	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	13	7	0.43	SAI	H01	-0.07	ODSCC TSP AXIAL	In Service via APC
3	13	7	0.21	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
3	13	7	0.4	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	13	9	0.57	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	13	10	0.54	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	13	12	1.02	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	13	12	0.11	SAI	H01	-0.16	ODSCC TSP AXIAL	In Service via APC
3	13	12	0.15	SAI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
3	13	12	0.16	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	13	17	0.52	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	13	17	0.24	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
3	13	24	1.51	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	13	24	0.77	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	24	0.16	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	13	24	0.17	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	13	29	0.63	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	29	1.13	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	29	0.47	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	13	29	0.21	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	13	30	0.86	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	34	0.84	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	36	1	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	36	0.11	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	13	40	0.49	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	13	44	0.45	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	47	1.43	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	13	47	0.08	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	13	47	0.12	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	13	52	0.62	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	13	53	0.69	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	13	54	0.72	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	13	55	1.02	DSI	H02	-0.19	ODSCC TSP AXIAL	In Service via APC
3	14	3	0.44	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	4	0.84	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	14	6	0.54	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	14	11	0.42	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	13	0.39	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	14	14	0.64	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	14	16	0.74	DSI	H05	0.12	ODSCC TSP AXIAL	In Service via APC
3	14	18	1.12	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	18	0.35	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	18	0.11	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	14	18	0.13	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	14	20	0.6	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	14	21	0.75	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	14	26	0.75	DSI	H06	0.12	ODSCC TSP AXIAL	In Service via APC
3	14	27	0.23	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	39	1.83	DSI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
3	14	39	1.23	DSI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.66	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.74	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.3	SAI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.23	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.43	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.21	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	14	39	0.32	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
3	14	41	0.76	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	14	41	0.42	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	14	52	0.77	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	14	79	0.31	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	15	3	1.45	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	15	3	1.02	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	15	3	0.75	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	15	3	0.3	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	15	3	0.14	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	15	3	0.11	SAI	H02	-0.07	ODSCC TSP AXIAL	In Service via APC
3	15	6	1.04	DSI	H01	0.15	ODSCC TSP AXIAL	PLUG
3	15	6	0.76	DSI	H02	0	ODSCC TSP AXIAL	PLUG
3	15	6	0.38	DSI	H03	0.09	ODSCC TSP AXIAL	PLUG
3	15	6	1.74	DSI	H05	0.37	ODSCC TSP AXIAL	PLUG
3	15	6	0.17	SAI	H01	-0.02	ODSCC TSP AXIAL	PLUG
3	15	6	0.18	SAI	H01	0.11	ODSCC TSP AXIAL	PLUG
3	15	6	0.27	SAI	H01	0.2	ODSCC TSP AXIAL	PLUG
3	15	6	0.12	SAI	H05	0.25	ODSCC TSP AXIAL	PLUG
3	15	6	0.27	SAI	H05	0.37	ODSCC TSP AXIAL	PLUG
3	15	7	0.6	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	15	7	0.72	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	15	7	0.21	SAI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	15	8	0.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	15	13	0.64	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	15	1.28	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	15	15	0.14	SAI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
3	15	15	0.23	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	15	15	0.27	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	15	16	0.88	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	15	18	1.03	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	18	0.13	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	15	20	0.4	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	15	26	0.86	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	29	1.42	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	15	29	1.03	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	29	0.12	SAI	H01	0.01	ODSCC TSP AXIAL	In Service via APC
3	15	29	0.39	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	15	29	0.19	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
3	15	30	1.25	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	15	30	0.13	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
3	15	33	0.95	DSI	H03	-0.21	ODSCC TSP AXIAL	In Service via APC
3	15	33	0.44	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
3	15	35	1.5	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	35	0.09	SAI	H03	0.22	ODSCC TSP AXIAL	In Service via APC
3	15	36	0.36	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	15	37	0.41	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	15	39	0.4	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	15	41	1.42	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	15	41	0.1	SAI	H02	-0.04	ODSCC TSP AXIAL	In Service via APC
3	15	41	0.11	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	15	43	1.04	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	15	43	0.61	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	15	43	0.26	SAI	H01	0.34	ODSCC TSP AXIAL	In Service via APC
3	15	43	0.14	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	15	71	0.27	DSI	H05	0.14	ODSCC TSP AXIAL	In Service via APC
3	15	82	1.21	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	16	4	1.12	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	16	4	0.83	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	16	4	0.21	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	16	5	0.4	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	16	14	0.42	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	16	16	0.36	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	16	18	0.49	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
3	16	21	1.21	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	16	21	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	16	21	0.17	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
3	16	22	0.91	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	16	24	0.6	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	16	25	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	16	40	1.12	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	16	40	0.14	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	16	41	1.02	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	16	41	0.09	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
3	16	41	0.36	SAI	H01	0.37	ODSCC TSP AXIAL	In Service via APC
3	16	44	0.6	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	16	44	0.11	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
3	16	44	0.08	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	16	54	0.96	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	17	6	1.21	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	17	6	0.58	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	17	11	0.7	DSI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	17	12	0.68	DSI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	17	13	0.75	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	17	15	0.81	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	17	20	0.55	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	17	22	0.79	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	17	37	0.89	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	17	39	0.56	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	17	40	0.64	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	17	47	0.92	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	17	47	0.38	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
3	17	49	0.26	DSI	C01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	17	50	0.66	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	17	50	0.07	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
3	17	50	0.13	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	17	53	1.13	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	17	53	0.16	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	17	82	0.32	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
3	17	87	0.36	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	17	87	1.47	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	17	87	0.64	DSI	H04	-0.05	ODSCC TSP AXIAL	In Service via APC
3	17	87	0.22	SAI	H02	-0.04	ODSCC TSP AXIAL	In Service via APC
3	17	87	0.27	SAI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	18	6	0.65	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	18	8	0.4	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	18	18	0.78	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	18	21	0.79	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	18	28	0.62	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	18	32	0.81	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	18	35	0.99	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	18	35	0.59	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	18	37	0.9	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	18	37	0.42	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	18	38	0.96	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	18	45	0.6	DSI	H01	0	ODSCC TSP AXIAL	PLUG
3	18	45	0.32	DSI	H03	0.11	ODSCC TSP AXIAL	PLUG
3	18	53	0.38	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
3	18	81	0.32	DSI	H03	0.14	ODSCC TSP AXIAL	In Service via APC
3	18	89	0.52	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	19	5	0.76	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	19	6	0.48	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	19	10	0.96	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	19	11	0.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	19	12	0.91	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
3	19	13	1.16	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.31	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.95	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.24	SAI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.23	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.24	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.26	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	19	13	0.12	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	19	17	0.67	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	19	22	1.11	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	19	22	0.67	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	19	22	0.16	SAI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
3	19	22	0.19	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	19	34	1.06	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	19	34	0.13	SAI	H02	-0.01	ODSCC TSP AXIAL	In Service via APC
3	19	37	0.73	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	19	39	0.77	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	19	40	0.59	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	19	47	0.23	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	19	69	0.53	DSI	H07	-0.08	ODSCC TSP AXIAL	In Service via APC
3	20	6	0.83	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	20	12	1.43	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	20	12	0.17	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
3	20	12	0.32	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	20	12	0.45	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	20	14	1.21	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
3	20	19	1.34	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	20	19	0.11	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	20	19	0.18	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	20	19	0.34	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	20	26	1.35	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	26	0.09	SAI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
3	20	26	0.14	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	28	1.54	DSI	H01	0.24	ODSCC TSP AXIAL	PLUG
3	20	28	1.15	DSI	H04	0.04	ODSCC TSP AXIAL	PLUG
3	20	28	0.06	SAI	H01	0.25	ODSCC TSP AXIAL	PLUG
3	20	28	0.18	SAI	H01	0.29	ODSCC TSP AXIAL	PLUG
3	20	28	0.07	SAI	H04	0.04	ODSCC TSP AXIAL	PLUG

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	20	29	1.73	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	29	0.27	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	20	29	0.1	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
3	20	29	0.26	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
3	20	29	0.42	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	20	30	1.44	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	20	30	0.23	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
3	20	30	0.14	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	20	30	0.3	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	20	31	1.42	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	20	31	0.32	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	20	31	0.33	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	20	31	0.21	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
3	20	31	0.35	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	20	31	0.18	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	20	32	1.79	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
3	20	32	0.31	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
3	20	32	0.42	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	20	35	1.03	DSI	H01	0.09	ODSCC TSP AXIAL	PLUG
3	20	35	0.66	DSI	H03	0.03	ODSCC TSP AXIAL	PLUG
3	20	35	0.12	SAI	H01	-0.12	ODSCC TSP AXIAL	PLUG
3	20	35	0.71	SAI	H02	0.18	ODSCC TSP AXIAL	PLUG
3	20	35	0.41	SAI	H02	0.21	ODSCC TSP AXIAL	PLUG
3	20	35	0.32	SAI	H02	0.31	ODSCC TSP AXIAL	PLUG
3	20	37	0.74	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	20	39	1.07	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	20	39	0.18	SAI	H01	-0.02	ODSCC TSP AXIAL	In Service via APC
3	20	39	0.31	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	20	39	0.17	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	20	47	1.39	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	20	47	0.15	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	20	50	0.44	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
3	20	68	0.83	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	20	71	0.74	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	20	79	0.3	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	80	1.07	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	80	0.42	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
3	20	80	0.13	SAI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	85	1.37	DSI	H03	-0.17	ODSCC TSP AXIAL	In Service via APC
3	20	86	1.15	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	20	88	0.39	DSI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
3	20	89	0.72	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	21	7	0.62	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	21	15	0.38	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	21	20	0.49	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	21	20	0.99	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	21	20	0.75	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	21	24	1.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	21	24	0.24	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	21	24	0.5	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
3	21	29	0.3	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	21	41	0.23	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	21	81	0.96	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	21	81	0.51	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	21	82	0.55	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
3	21	84	0.63	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
3	21	88	0.96	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	21	89	0.98	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
3	22	7	0.65	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	22	15	0.3	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	22	20	1.26	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	22	21	0.65	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	22	23	0.59	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	22	26	1.41	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	22	28	0.74	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	22	28	1.47	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	22	28	0.09	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	22	29	0.88	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	22	38	1.22	DSI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	22	38	0.13	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	22	38	0.18	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	22	38	0.2	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	22	40	0.65	DSI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
3	22	52	1.42	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	22	52	0.07	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	22	52	0.16	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	22	53	0.61	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	22	61	0.74	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	22	68	0.67	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	23	9	1.04	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	23	13	1.62	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	23	13	0.12	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	23	13	0.17	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	23	13	0.61	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	23	14	0.61	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	23	22	0.45	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	23	26	0.94	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	23	30	1.33	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	23	30	0.15	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	23	30	0.44	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	23	32	0.86	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	23	38	1.42	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
3	23	38	0.57	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	23	44	0.39	DSI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
3	23	49	0.37	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	23	60	0.7	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	23	75	0.49	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
3	24	10	0.7	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	24	10	0.64	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	24	12	1.3	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	24	12	0.57	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	24	12	0.16	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	24	12	0.14	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	24	12	0.32	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	24	12	0.37	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	24	12	0.13	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	24	13	0.31	DSI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	24	13	0.77	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	24	15	0.52	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	24	15	0.21	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
3	24	16	1.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	24	16	0.71	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	24	16	0.15	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
3	24	16	0.42	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
3	24	19	1.17	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	24	19	0.21	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
3	24	19	0.19	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	24	19	0.33	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	24	19	0.18	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	24	21	1.09	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	24	21	1.24	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	24	21	1.14	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	24	21	0.25	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
3	24	21	0.55	SAI	H01	0.34	ODSCC TSP AXIAL	In Service via APC
3	24	21	0.09	SAI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	24	21	0.16	SAI	H03	0.23	ODSCC TSP AXIAL	In Service via APC
3	24	23	0.67	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
3	24	23	0.46	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	24	23	0.93	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	24	25	0.93	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	24	27	0.58	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	24	29	1.51	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	24	29	0.11	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
3	24	29	0.4	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	24	29	0.13	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	24	35	1.04	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	25	8	1.69	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	25	8	0.17	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	25	8	0.21	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	25	8	0.12	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	25	8	0.1	SAI	H01	0.36	ODSCC TSP AXIAL	In Service via APC
3	25	14	0.83	DSI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
3	25	16	1.8	DSI	H01	0.32	ODSCC TSP AXIAL	PLUG
3	25	16	0.11	SAI	H01	0.23	ODSCC TSP AXIAL	PLUG
3	25	16	0.4	SAI	H01	0.32	ODSCC TSP AXIAL	PLUG
3	25	18	1.49	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	25	18	0.23	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	25	18	0.31	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	25	19	0.81	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	25	21	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	25	24	0.46	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	25	24	0.27	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	25	26	1.41	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	25	26	0.26	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
3	25	30	0.92	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	25	33	0.96	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	25	33	0.14	SAI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
3	25	35	0.46	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	25	49	0.89	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	25	49	0.45	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	25	52	0.53	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	25	72	0.53	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	25	81	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	26	9	1.27	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	9	0.21	SAI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	26	9	0.2	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	26	10	0.95	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	12	0.65	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	26	12	1.03	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	14	1.37	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	14	0.39	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	26	14	0.09	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	26	14	0.12	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	26	14	0.1	SAI	H01	0.34	ODSCC TSP AXIAL	In Service via APC
3	26	16	1.2	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	17	1.21	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	26	17	0.09	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	26	17	0.1	SAI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
3	26	17	0.18	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
3	26	20	0.98	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	22	1	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
3	26	22	0.39	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	22	0.48	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	22	0.13	SAI	H04	0.04	ODSCC TSP AXIAL	In Service via APC
3	26	22	0.09	SAI	H04	0.05	ODSCC TSP AXIAL	In Service via APC
3	26	22	0.12	SAI	H04	0.23	ODSCC TSP AXIAL	In Service via APC
3	26	23	0.83	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	24	1.06	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	24	0.12	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	26	24	0.14	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
3	26	25	0.69	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	26	27	0.3	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	26	28	1.48	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	26	28	1.08	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	26	28	0.1	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	26	28	0.15	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	26	28	0.25	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
3	26	28	0.1	SAI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
3	26	29	0.46	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	29	0.61	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	29	0.61	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	26	29	0.11	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	26	29	0.15	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
3	26	30	0.4	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	26	35	1.39	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	35	0.42	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	26	38	0.98	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	26	38	0.1	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
3	26	81	1.21	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	26	81	0.12	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	27	12	0.2	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	27	15	1.16	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	27	15	0.19	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	27	15	0.14	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	27	18	0.76	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	27	18	0.51	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	27	24	0.85	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	27	26	0.61	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	26	1.35	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	27	26	0.08	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	27	26	0.15	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
3	27	26	0.11	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
3	27	26	0.34	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
3	27	27	0.88	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	27	29	0.64	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	27	29	0.41	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	30	1.36	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	30	0.13	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
3	27	30	0.17	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
3	27	30	0.2	SAI	H02	0.35	ODSCC TSP AXIAL	In Service via APC
3	27	35	1.17	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	35	0.14	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	27	35	0.36	SAI	H01	0.35	ODSCC TSP AXIAL	In Service via APC
3	27	36	0.93	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	60	0.84	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	27	63	0.76	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	27	63	0.92	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
3	27	67	0.2	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
3	27	68	0.34	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	27	68	0.37	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
3	27	68	0.49	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	69	1.06	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
3	27	69	0.18	SAI	H04	0.26	ODSCC TSP AXIAL	In Service via APC
3	27	79	0.83	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	27	79	0.7	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
3	27	85	0.71	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
3	28	14	0.42	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	28	14	0.1	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	28	17	1.68	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	28	17	0.1	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	28	17	0.17	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	28	26	1.51	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	28	26	0.21	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	28	26	0.26	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	28	27	0.97	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	28	28	0.83	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	28	32	0.95	DSI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
3	28	32	0.23	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
3	28	84	0.88	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	29	14	1.24	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	29	14	0.11	SAI	H01	-0.07	ODSCC TSP AXIAL	In Service via APC
3	29	14	0.13	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	29	14	0.07	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	29	14	0.09	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	29	14	0.1	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	29	16	0.31	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	29	23	0.43	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
3	29	30	0.57	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	29	34	0.93	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	29	34	0.09	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	29	35	0.93	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	29	50	0.56	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
3	29	71	0.24	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	29	79	0.28	DSI	C03	0.03	ODSCC TSP AXIAL	In Service via APC
3	30	18	0.5	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	30	19	1.09	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	30	19	0.13	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
3	30	21	0.74	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	30	23	1.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	23	0.18	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	30	23	0.45	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	30	23	0.65	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	30	26	0.51	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	33	1.17	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	30	42	0.77	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	42	0.81	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	46	1.22	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	30	46	1.07	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	46	0.11	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	30	46	0.17	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	30	46	0.19	SAI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	46	0.13	SAI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
3	30	50	1.2	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	30	50	0.29	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	50	0.3	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	30	59	0.36	DSI	H06	0.08	ODSCC TSP AXIAL	PLUG
3	30	72	0.98	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	30	72	0.16	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	30	80	0.57	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	31	14	0.93	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	31	17	0.7	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	31	20	0.7	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	31	25	0.48	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	31	26	0.57	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	31	26	0.74	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	31	28	1.53	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	31	28	1.14	DSI	H04	-0.15	ODSCC TSP AXIAL	In Service via APC
3	31	28	0.19	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	31	28	0.26	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	31	28	0.15	SAI	H04	-0.05	ODSCC TSP AXIAL	In Service via APC
3	31	28	0.12	SAI	H04	-0.04	ODSCC TSP AXIAL	In Service via APC
3	31	30	0.79	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	31	32	1.25	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	31	32	1.22	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	31	32	0.11	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	31	42	0.39	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	31	65	0.81	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
3	31	76	1.24	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	31	76	0.97	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	31	76	0.39	DSI	H03	0.17	ODSCC TSP AXIAL	In Service via APC
3	31	76	0.15	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	31	76	0.21	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	32	20	0.62	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	32	21	0.49	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	32	23	1.94	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	32	23	0.24	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	32	23	0.27	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	32	25	0.59	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	32	28	1.29	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	32	28	0.17	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
3	32	29	0.78	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	32	33	0.81	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	32	34	1.07	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	32	34	0.82	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	32	34	1.23	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	32	34	0.17	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	32	34	0.08	SAI	H03	0.02	ODSCC TSP AXIAL	In Service via APC
3	32	42	1.15	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	32	42	0.25	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
3	32	48	0.29	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	32	54	0.75	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	32	54	0.6	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	32	56	0.26	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
3	32	57	0.4	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	32	75	0.2	DSI	C05	-0.03	ODSCC TSP AXIAL	In Service via APC
3	32	76	0.34	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	32	77	0.92	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	32	77	0.26	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	32	78	0.95	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	33	25	0.85	DSI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
3	33	25	0.86	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	33	27	0.63	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	33	31	0.39	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	33	36	1.05	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	33	36	0.9	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
3	33	36	0.21	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	33	36	0.13	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	33	36	0.1	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
3	33	40	1	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	33	40	0.28	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	33	41	0.4	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	33	44	0.41	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	33	45	0.66	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	33	49	1.13	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	33	49	0.64	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	33	49	0.78	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	33	49	0.12	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
3	33	49	0.31	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
3	33	67	1.04	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	33	70	0.56	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	34	19	0.69	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	34	19	0.47	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	34	22	2.41	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	34	22	0.32	SAI	H01	0.18	ODSCC TSP AXIAL	PLUG
3	34	22	0.08	SAI	H01	0.2	ODSCC TSP AXIAL	PLUG
3	34	22	0.18	SAI	H01	0.23	ODSCC TSP AXIAL	PLUG
3	34	22	0.25	SAI	H01	0.25	ODSCC TSP AXIAL	PLUG
3	34	22	0.23	SAI	H01	0.26	ODSCC TSP AXIAL	PLUG
3	34	25	1.87	DSI	H01	0.06	ODSCC TSP AXIAL	PLUG
3	34	25	0.6	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
3	34	25	0.86	DSI	H04	0.15	ODSCC TSP AXIAL	In Service via APC
3	34	25	0.23	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
3	34	25	0.35	SAI	H01	0.35	ODSCC TSP AXIAL	In Service via APC
3	34	27	0.95	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	34	28	0.72	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
3	34	29	0.54	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
3	34	29	0.18	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	34	34	1.35	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	34	36	0.7	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	34	51	0.69	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	34	60	0.38	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
3	34	61	0.72	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
3	34	61	0.92	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
3	34	61	1.19	DSI	H04	-0.14	ODSCC TSP AXIAL	In Service via APC
3	34	61	0.13	SAI	H04	0.27	ODSCC TSP AXIAL	In Service via APC
3	34	72	0.17	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	34	72	1.51	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	34	72	0.05	SAI	H02	-0.02	ODSCC TSP AXIAL	In Service via APC
3	34	72	0.16	SAI	H02	-0.01	ODSCC TSP AXIAL	In Service via APC
3	34	72	0.1	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	34	72	0.58	SAI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
3	35	18	1.09	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
3	35	18	0.1	SAI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
3	35	21	1.49	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	35	21	0.37	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
3	35	21	0.5	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	35	23	0.47	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	35	24	0.35	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	35	27	0.49	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	35	44	0.49	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	35	47	1.09	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	35	47	0.84	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	35	47	0.37	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
3	35	55	0.52	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	35	58	1.09	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
3	35	58	0.26	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	35	58	0.54	DSI	H05	-0.06	ODSCC TSP AXIAL	In Service via APC
3	35	58	0.17	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
3	35	58	0.11	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
3	35	58	0.2	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
3	36	21	0.36	DSI	C02	-0.27	ODSCC TSP AXIAL	In Service via APC
3	36	24	1.93	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	36	24	0.28	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	36	24	0.17	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
3	36	25	1.69	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	36	29	0.33	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	36	31	0.44	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
3	36	31	0.98	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	36	31	0.8	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	36	33	1.32	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	36	38	0.97	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	36	40	0.76	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	36	42	0.84	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
3	36	48	0.69	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	36	53	0.81	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
3	36	68	0.25	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	37	21	0.53	DSI	C01	0.27	ODSCC TSP AXIAL	In Service via APC
3	37	23	0.66	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	37	26	0.89	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	37	27	0.61	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	37	28	1.22	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	37	28	0.12	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
3	37	31	0.98	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	37	31	0.9	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	37	42	0.91	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	37	43	0.42	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	37	66	0.28	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
3	37	67	0.76	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	37	68	0.56	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	38	25	1.12	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
3	38	25	1.08	DSI	H03	0.17	ODSCC TSP AXIAL	In Service via APC
3	38	25	0.18	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
3	38	25	0.2	SAI	H03	0.22	ODSCC TSP AXIAL	In Service via APC
3	38	27	0.6	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	38	27	0.32	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	38	29	0.88	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	38	29	0.5	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	38	32	1.09	DSI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
3	38	32	0.77	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	38	32	0.17	SAI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
3	38	33	0.57	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	38	36	0.74	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	38	40	0.94	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	38	42	0.86	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	38	44	0.96	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	38	44	0.42	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	38	45	0.59	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	38	46	0.55	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
3	38	58	0.84	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
3	38	58	0.46	DSI	H03	0.14	ODSCC TSP AXIAL	In Service via APC
3	38	58	0.16	DSI	H04	0.14	ODSCC TSP AXIAL	In Service via APC
3	38	58	0.37	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
3	38	62	0.95	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	39	26	2.02	DSI	H01	0.12	ODSCC TSP AXIAL	PLUG
3	39	26	1.42	DSI	H02	0.03	ODSCC TSP AXIAL	PLUG
3	39	26	1.02	DSI	H03	0.15	ODSCC TSP AXIAL	PLUG
3	39	26	0.16	SAI	H01	0.28	ODSCC TSP AXIAL	PLUG
3	39	26	1.11	SAI	H01	0.29	ODSCC TSP AXIAL	PLUG
3	39	26	0.15	SAI	H02	0.2	ODSCC TSP AXIAL	PLUG
3	39	26	0.13	SAI	H03	0.25	ODSCC TSP AXIAL	PLUG
3	39	28	0.62	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
3	39	30	1.04	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	39	30	0.1	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	39	48	1.29	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
3	39	68	0.67	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
3	39	71	1.21	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	39	71	0.07	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
3	40	24	0.84	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	40	24	0.68	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
3	40	25	0.53	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
3	40	25	1.17	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
3	40	25	0.74	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	40	25	0.12	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
3	40	41	0.32	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
3	40	43	0.4	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	40	62	0.47	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
3	40	67	0.53	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
3	40	69	0.42	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
3	41	30	0.79	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	41	30	0.45	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
3	41	33	0.43	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	41	36	0.71	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
3	41	39	0.66	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	41	68	0.38	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
3	42	33	0.22	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
3	42	43	0.18	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
3	42	50	0.59	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
3	42	52	0.44	DSI	H03	0.14	ODSCC TSP AXIAL	In Service via APC
3	42	63	0.26	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	42	63	0.15	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
3	43	36	1.53	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
3	43	36	0.13	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
3	43	36	0.2	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
3	43	36	0.09	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
3	43	44	0.61	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
3	43	47	0.65	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
3	43	50	0.53	DSI	H04	0.14	ODSCC TSP AXIAL	In Service via APC
3	43	54	0.39	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
3	43	59	0.89	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
3	44	33	1.48	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
3	44	33	0.23	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
3	44	52	1.14	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	44	52	0.24	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
3	44	52	0.14	SAI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
3	44	58	1.32	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	44	58	1.04	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.24	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.16	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.26	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.09	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.17	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.17	SAI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
3	44	58	0.07	SAI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
3	44	59	0.74	DSI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
3	44	59	2.07	DSI	H02	0.08	ODSCC TSP AXIAL	PLUG
3	44	59	0.13	SAI	H02	0.01	ODSCC TSP AXIAL	PLUG
3	44	59	0.14	SAI	H02	0.21	ODSCC TSP AXIAL	PLUG
3	45	39	0.91	DSI	C04	-0.12	ODSCC TSP AXIAL	PLUG
3	45	42	0.49	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
3	45	49	0.43	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
3	45	53	0.42	DSI	C03	-0.06	ODSCC TSP AXIAL	In Service via APC
3	46	52	0.68	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
3	46	52	0.41	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
3	46	52	0.75	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	1	82	0.88	DSI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	1	85	1.38	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	2	9	0.29	DSI	C04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	9	0.78	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	2	14	0.9	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	2	15	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	2	15	0.87	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	2	25	0.74	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	26	0.45	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	2	38	0.63	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	2	38	0.98	DSI	H03	0.18	ODSCC TSP AXIAL	In Service via APC
4	2	47	0.6	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	2	53	0.72	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	2	53	1.09	DSI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
4	2	53	0.21	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	2	53	0.2	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	2	54	0.39	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	2	54	0.42	DSI	H05	-0.06	ODSCC TSP AXIAL	In Service via APC
4	2	55	1.24	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	2	55	0.3	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	2	55	0.34	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	2	56	0.49	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	2	57	0.6	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	2	57	0.68	DSI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
4	2	58	0.41	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	2	64	0.68	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	2	67	1.42	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	2	67	0.55	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	2	67	0.36	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	2	72	0.94	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	2	74	0.66	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
4	2	74	1.26	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
4	2	74	0.36	SAI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	2	74	0.5	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
4	2	75	0.5	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	2	76	1.61	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	2	76	0.79	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	2	76	0.53	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	2	84	0.4	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	2	84	0.29	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	85	0.37	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	85	0.35	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	2	86	0.85	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	2	86	0.22	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	88	0.7	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	2	90	0.61	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	92	0.43	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	2	94	0.42	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	3	4	0.43	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	16	0.68	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	3	16	0.47	DSI	H04	-0.18	ODSCC TSP AXIAL	In Service via APC
4	3	18	0.61	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	3	18	1.02	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	18	0.72	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
4	3	19	0.38	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	21	0.85	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	3	22	0.45	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	3	25	0.79	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	3	25	1.01	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
4	3	25	0.78	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	3	25	0.3	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	3	25	0.34	SAI	H02	0.35	ODSCC TSP AXIAL	In Service via APC
4	3	28	0.87	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	3	30	0.54	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	3	34	0.42	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	35	0.3	DSI	C03	0	ODSCC TSP AXIAL	In Service via APC
4	3	35	0.57	DSI	H01	-0.21	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	3	71	1.15	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	3	71	0.41	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	3	71	0.66	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	3	81	0.55	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	87	0.4	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	3	87	0.8	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	88	0.79	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	3	88	0.79	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	3	89	0.84	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	3	90	0.68	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	3	90	0.45	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	3	91	0.81	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	3	92	0.63	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	3	93	0.9	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	3	94	0.89	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	4	3	0.59	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	8	0.48	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	4	8	0.44	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	4	8	0.43	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	8	0.46	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	4	12	0.65	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	4	13	0.8	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	4	13	0.55	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	4	13	0.37	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	4	14	0.48	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	14	0.67	DSI	H06	-0.14	ODSCC TSP AXIAL	In Service via APC
4	4	16	0.5	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	18	0.61	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
4	4	19	0.62	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	4	22	0.45	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	4	22	0.11	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	4	23	1.06	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	4	23	0.3	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
4	4	27	0.55	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	27	0.58	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	4	28	0.75	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	4	28	0.42	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	28	0.62	DSI	H04	-0.17	ODSCC TSP AXIAL	In Service via APC
4	4	28	0.36	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	30	0.37	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	4	40	1.14	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	4	40	0.68	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	4	41	0.45	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	47	0.62	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	74	0.87	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	4	77	0.52	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	78	0.67	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	4	78	0.41	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	80	0.82	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	4	82	1.47	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	4	82	0.87	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	4	82	0.28	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	4	82	0.45	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	4	84	0.58	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	86	1.03	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	86	0.17	SAI	H03	0.17	ODSCC TSP AXIAL	In Service via APC
4	4	87	1.16	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	4	87	0.88	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	4	87	0.73	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	4	87	0.14	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	4	87	0.27	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	4	87	0.16	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	4	88	1	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	88	0.71	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	89	1.09	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	89	0.25	SAI	H03	0.21	ODSCC TSP AXIAL	In Service via APC
4	4	90	1.2	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	4	90	0.92	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	4	90	0.82	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	90	0.6	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	4	90	0.13	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	4	90	0.13	SAI	H01	0.35	ODSCC TSP AXIAL	In Service via APC
4	4	91	0.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	4	91	0.83	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	4	92	1.11	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	4	92	0.13	SAI	H03	0.3	ODSCC TSP AXIAL	In Service via APC
4	4	93	0.63	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	4	94	1.16	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	4	94	0.13	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	4	94	0.12	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	5	1	0.31	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	1	0.56	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	5	1	0.22	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	5	1	0.4	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	5	9	0.51	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	26	0.7	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	28	1.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	28	0.92	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	5	28	0.23	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	5	28	0.41	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	5	29	0.46	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	5	29	0.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	5	29	0.39	DSI	H04	-0.12	ODSCC TSP AXIAL	In Service via APC
4	5	30	1.1	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	30	0.11	SAI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
4	5	30	0.37	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	5	31	0.41	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	5	32	0.62	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	5	33	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	5	34	0.96	SAI	H01	0.21	ODSCC TSP AXIAL	PLUG
4	5	35	1.27	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	5	35	0.33	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	5	35	0.4	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
4	5	36	0.65	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	5	37	0.58	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	5	37	0.29	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	5	38	1.11	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	5	38	0.25	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	5	38	0.18	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	5	39	1.26	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	39	0.27	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	5	39	0.14	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	5	41	0.54	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	5	42	1.31	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	42	0.26	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	5	42	0.24	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	5	43	0.77	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	5	43	1.07	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	5	43	0.64	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	5	43	0.2	SAI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	5	44	0.65	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	5	46	0.43	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	5	46	0.43	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	47	0.79	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	5	53	0.71	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	63	0.55	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	5	69	0.45	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	5	71	1.09	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	5	71	0.21	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	5	71	0.14	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	5	71	0.16	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	5	72	0.65	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	73	0.57	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	5	74	0.79	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	5	75	0.43	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	5	76	0.56	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	77	0.43	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	5	78	0.89	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	5	79	0.55	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	5	80	1.23	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	80	0.14	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	5	80	0.19	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
4	5	82	0.67	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	5	83	0.87	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	5	87	0.86	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	87	0.11	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	5	88	0.99	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	5	89	1.11	DSI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	5	89	0.21	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	5	89	0.35	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	5	91	0.99	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	5	91	0.48	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	5	92	0.65	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	5	92	0.58	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	5	93	0.87	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	6	2	0.72	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	7	0.4	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	6	7	0.16	SAI	H03	0.3	ODSCC TSP AXIAL	In Service via APC
4	6	8	0.73	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	13	0.54	DSI	H02	-0.26	ODSCC TSP AXIAL	In Service via APC
4	6	13	0.18	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	6	21	0.48	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	6	21	0.52	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	6	22	0.39	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	6	23	0.84	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	24	0.61	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	25	0.5	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	6	28	0.77	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	29	0.39	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	6	29	0.34	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	6	30	0.81	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	32	0.43	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	6	38	0.64	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	6	39	0.94	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	6	42	0.84	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	45	0.74	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	47	0.44	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	6	48	0.21	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	6	50	0.59	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	6	66	0.77	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	6	68	0.69	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	69	0.22	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	72	0.78	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	73	0.57	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	6	74	0.97	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	6	75	0.91	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	6	76	0.81	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	78	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	80	1.04	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	6	80	0.08	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	6	81	0.79	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	84	0.54	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	6	87	0.82	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	6	87	0.43	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	6	88	1.15	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	6	88	0.64	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	88	0.18	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	6	90	0.93	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	6	90	0.86	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	90	0.72	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	6	90	0.79	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	6	91	0.96	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	6	91	0.7	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	6	92	0.51	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	6	94	0.45	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	7	18	0.69	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	7	22	0.71	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	7	33	0.25	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	7	46	0.77	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	7	47	0.45	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	7	47	0.23	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	7	48	1.87	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	7	48	0.35	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	7	48	0.66	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	7	54	1.2	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	7	55	1.41	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	7	55	0.65	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	7	55	0.21	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	7	55	0.64	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	7	56	0.63	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	7	57	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	7	58	0.73	SAI	H01	0.15	ODSCC TSP AXIAL	PLUG
4	7	59	0.91	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	7	61	0.57	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	7	62	0.25	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	7	64	0.52	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	7	68	0.37	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	2	0.99	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	8	4	0.44	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	8	5	0.62	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	8	6	0.33	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	7	0.27	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	8	0.31	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	12	0.55	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	12	0.69	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	13	0.58	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	13	0.34	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	14	0.35	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	16	0.3	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	17	0.93	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	8	18	0.28	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	19	0.69	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	21	0.86	DSI	H02	-0.2	ODSCC TSP AXIAL	In Service via APC
4	8	25	0.67	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	8	25	0.42	DSI	H04	-0.08	ODSCC TSP AXIAL	In Service via APC
4	8	27	0.75	DSI	H01	-0.17	ODSCC TSP AXIAL	In Service via APC
4	8	27	0.62	DSI	H02	-0.2	ODSCC TSP AXIAL	In Service via APC
4	8	27	0.85	DSI	H03	-0.25	ODSCC TSP AXIAL	In Service via APC
4	8	27	0.25	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	28	0.72	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	29	0.81	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	29	0.67	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	30	0.69	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	31	0.91	DSI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	8	31	0.57	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	8	33	0.53	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	34	1.58	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	34	0.37	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	8	34	0.06	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	8	34	0.39	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	8	34	0.5	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
4	8	35	0.57	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	35	0.31	DSI	H04	-0.11	ODSCC TSP AXIAL	In Service via APC
4	8	36	0.69	DSI	H01	-0.23	ODSCC TSP AXIAL	In Service via APC
4	8	36	0.25	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	36	0.33	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	8	38	0.78	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	39	0.97	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	39	0.37	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	40	0.38	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	41	1.37	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	41	0.46	DSI	H04	-0.17	ODSCC TSP AXIAL	In Service via APC
4	8	41	0.22	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	8	41	0.5	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	8	42	0.71	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	42	0.49	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	43	0.15	DSI	H01	-0.03	ODSCC TSP AXIAL	PLUG
4	8	43	2.52	DSI	H04	-0.03	ODSCC TSP AXIAL	PLUG
4	8	43	1.7	SAI	H04	0.31	ODSCC TSP AXIAL	PLUG
4	8	44	0.34	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	8	44	0.3	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	45	0.5	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	8	45	0.75	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	45	0.35	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	47	0.74	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
4	8	48	0.87	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	48	0.95	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	8	49	0.24	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	8	50	0.95	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	50	0.15	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	8	51	0.16	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	52	1.18	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	52	0.28	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	8	52	0.16	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	8	52	0.47	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	8	55	0.72	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	56	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	58	0.67	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	8	59	1.14	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	59	0.45	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	8	59	0.17	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	8	59	0.34	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	8	60	1.57	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	8	60	0.26	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
4	8	60	0.34	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	8	62	0.35	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	8	67	0.63	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	8	70	0.6	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	8	73	0.9	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	76	0.46	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	77	1.07	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	78	0.93	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	8	78	0.66	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	8	79	0.22	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	80	0.83	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	80	0.5	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
4	8	81	0.68	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	81	0.73	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	82	1.05	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	8	82	0.13	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	8	82	0.12	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
4	8	82	0.34	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
4	8	83	1.55	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
4	8	83	0.25	SAI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
4	8	83	0.24	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	8	83	0.46	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	8	84	0.69	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	85	0.9	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	8	85	1.64	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	85	0.58	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
4	8	85	0.48	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	8	86	0.7	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	89	1.03	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	8	89	0.86	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	8	89	0.79	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	89	0.26	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	8	89	0.37	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	8	90	0.86	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	8	91	0.68	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	91	0.86	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	8	92	1.74	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	8	92	1.33	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.72	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.88	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.57	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.18	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.22	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.29	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
4	8	92	0.22	SAI	H02	0.35	ODSCC TSP AXIAL	In Service via APC
4	8	93	0.57	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	2	1.16	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	9	2	0.14	SAI	H02	0.04	ODSCC TSP AXIAL	In Service via APC
4	9	2	0.13	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
4	9	10	0.41	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	9	11	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	11	0.47	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	9	12	0.41	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	9	13	0.44	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	15	0.27	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	15	0.28	DSI	H06	-0.06	ODSCC TSP AXIAL	In Service via APC
4	9	16	0.74	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	9	16	0.51	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	16	0.4	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	16	0.22	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	9	18	0.51	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	9	19	0.73	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	9	21	0.97	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	9	22	1.12	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	22	0.1	SAI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
4	9	22	0.15	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	9	23	0.94	DSI	H01	-0.26	ODSCC TSP AXIAL	In Service via APC
4	9	23	0.69	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	23	0.26	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	9	23	0.36	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	9	24	0.74	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	25	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	28	0.87	DSI	H02	-0.23	ODSCC TSP AXIAL	In Service via APC
4	9	29	0.55	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	9	30	0.13	SAI	H01	0.09	ODSCC TSP AXIAL	PLUG
4	9	30	0.91	SAI	H01	0.28	ODSCC TSP AXIAL	PLUG
4	9	30	0.59	SAI	H01	0.37	ODSCC TSP AXIAL	PLUG
4	9	31	0.3	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	9	33	0.68	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	9	33	0.19	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	9	34	0.44	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
4	9	35	1.39	DSI	H01	-0.17	ODSCC TSP AXIAL	In Service via APC
4	9	35	0.56	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	9	36	0.43	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	36	0.73	DSI	H02	-0.23	ODSCC TSP AXIAL	In Service via APC
4	9	37	0.68	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	37	0.82	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	9	38	1.43	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	38	0.36	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	9	38	0.5	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	9	39	0.55	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	40	0.6	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	42	1.53	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	42	0.2	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	9	42	0.27	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	9	42	0.18	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	9	42	0.17	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	9	43	1.15	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	9	43	0.71	DSI	H02	-0.2	ODSCC TSP AXIAL	In Service via APC
4	9	43	0.23	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	9	43	0.35	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
4	9	44	1.16	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	44	0.26	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	9	44	0.23	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	9	44	0.43	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	9	47	0.56	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	9	47	0.56	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	47	0.23	SAI	H03	0.19	ODSCC TSP AXIAL	In Service via APC
4	9	48	1.2	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
4	9	48	0.73	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	9	48	0.41	DSI	H05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	48	0.24	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	48	0.28	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	9	50	0.36	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	9	52	0.42	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	9	53	0.92	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	9	57	1.14	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	9	57	0.14	SAI	H01	0.04	ODSCC TSP AXIAL	In Service via APC
4	9	57	0.27	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	9	61	0.59	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	63	0.81	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	9	64	0.59	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	9	70	0.72	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	9	73	0.86	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	9	74	0.42	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	9	74	0.33	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	9	77	0.35	DSI	C04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	9	83	0.51	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	9	89	0.27	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	9	89	0.89	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	9	93	0.58	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	10	3	0.69	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	10	12	0.85	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	10	20	0.58	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	10	29	0.47	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	10	31	0.67	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	10	34	0.45	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	10	35	0.77	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	10	36	0.56	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	10	42	0.65	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	10	42	0.5	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	10	52	0.77	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	10	68	0.55	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	11	8	0.23	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	11	42	0.72	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	11	68	0.46	DSI	H07	0.24	ODSCC TSP AXIAL	In Service via APC
4	11	69	0.24	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	11	69	0.38	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
4	11	75	0.63	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	11	84	0.43	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	12	2	1.01	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	2	0.14	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
4	12	2	0.14	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	12	10	0.61	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	11	0.33	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	12	15	0.41	DSI	H04	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	18	0.92	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	20	0.49	DSI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	12	23	0.75	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	24	0.92	DSI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	12	24	0.51	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	12	25	0.7	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	12	26	0.58	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	12	26	0.34	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	27	0.5	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	12	28	0.9	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	12	30	0.79	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	31	0.46	DSI	H02	-0.2	ODSCC TSP AXIAL	In Service via APC
4	12	31	0.63	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	32	1.48	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	12	32	0.42	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	32	0.2	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	32	0.17	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	12	32	0.09	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	12	32	0.3	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	12	33	0.48	DSI	H02	0.06	ODSCC TSP AXIAL	PLUG
4	12	33	1.02	SAI	H04	0.34	ODSCC TSP AXIAL	PLUG
4	12	34	2.77	DSI	H02	-0.21	ODSCC TSP AXIAL	PLUG
4	12	34	1.77	SAI	H02	0.28	ODSCC TSP AXIAL	PLUG
4	12	35	0.83	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	12	36	0.63	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	36	0.47	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	12	37	1.52	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	12	37	0.57	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	12	37	0.42	SAI	H02	0.34	ODSCC TSP AXIAL	In Service via APC
4	12	38	0.48	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	12	38	0.89	DSI	H05	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	39	0.41	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	39	0.34	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	12	39	0.67	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	40	0.76	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	40	0.54	DSI	H03	-0.15	ODSCC TSP AXIAL	In Service via APC
4	12	41	1.01	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	12	41	0.53	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	12	41	0.12	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	12	41	0.13	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	12	41	0.3	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	12	42	0.53	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	43	1.67	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	12	43	0.73	DSI	H03	0.2	ODSCC TSP AXIAL	In Service via APC
4	12	43	0.18	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	12	43	0.93	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	12	44	0.84	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	12	59	0.57	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	12	59	0.33	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	61	0.83	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	12	62	1.17	DSI	H01	-0.17	ODSCC TSP AXIAL	In Service via APC
4	12	62	0.3	SAI	H01	0.01	ODSCC TSP AXIAL	In Service via APC
4	12	62	0.19	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
4	12	63	0.8	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	12	71	0.7	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
4	12	74	0.46	DSI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
4	12	74	0.29	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	12	75	0.62	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	12	75	0.28	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	76	1.03	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	12	76	0.56	DSI	H05	0.11	ODSCC TSP AXIAL	In Service via APC
4	12	76	0.19	SAI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	12	76	0.68	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	81	0.62	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	12	81	0.51	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	12	82	0.69	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	12	83	1.19	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	12	83	0.58	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	12	83	0.2	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	12	85	1.25	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	12	85	0.49	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	12	85	0.44	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	13	14	0.55	DSI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	13	15	1.01	DSI	H01	0.23	ODSCC TSP AXIAL	PLUG
4	13	15	0.7	DSI	H02	0.24	ODSCC TSP AXIAL	PLUG
4	13	15	0.58	DSI	H03	-0.12	ODSCC TSP AXIAL	PLUG
4	13	15	0.27	SAI	H01	0.23	ODSCC TSP AXIAL	PLUG
4	13	15	0.13	SAI	H01	0.25	ODSCC TSP AXIAL	PLUG
4	13	15	0.14	SAI	H02	0.34	ODSCC TSP AXIAL	PLUG
4	13	15	0.6	SAI	H02	0.37	ODSCC TSP AXIAL	PLUG
4	13	17	0.78	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
4	13	17	0.68	DSI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	13	17	0.59	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	13	17	0.78	DSI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	13	17	0.29	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	13	22	0.63	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	13	29	0.51	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	13	30	0.99	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
4	13	31	0.75	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	13	33	0.44	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	13	34	1.02	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	13	34	0.19	SAI	H01	0.01	ODSCC TSP AXIAL	In Service via APC
4	13	34	0.41	SAI	H01	0.34	ODSCC TSP AXIAL	In Service via APC
4	13	35	0.71	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	13	36	0.21	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	13	39	0.57	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	13	41	1.48	DSI	H03	0.17	ODSCC TSP AXIAL	In Service via APC
4	13	41	0.11	SAI	H03	0.17	ODSCC TSP AXIAL	In Service via APC
4	13	41	0.19	SAI	H03	0.25	ODSCC TSP AXIAL	In Service via APC
4	13	41	0.28	SAI	H03	0.28	ODSCC TSP AXIAL	In Service via APC
4	13	42	0.69	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	13	43	0.39	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	13	44	0.68	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	13	44	0.56	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	13	45	1.1	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	13	45	0.2	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	13	45	0.32	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	13	45	0.34	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	13	46	0.72	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	13	46	0.41	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	13	46	0.38	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	13	47	0.96	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	13	47	0.68	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
4	13	48	1.81	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	13	48	0.39	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	13	48	0.44	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	13	48	0.7	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	13	49	1.19	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	13	49	0.29	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	13	49	0.32	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	13	49	0.15	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	13	50	1.01	DSI	H03	-0.12	ODSCC TSP AXIAL	In Service via APC
4	13	50	0.23	SAI	H03	-0.04	ODSCC TSP AXIAL	In Service via APC
4	13	51	0.3	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	13	52	0.54	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	13	53	1.07	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	13	53	0.36	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	13	53	0.35	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	13	54	0.59	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	13	57	0.57	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	13	57	0.72	DSI	H05	-0.06	ODSCC TSP AXIAL	In Service via APC
4	13	59	0.32	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	13	62	0.37	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	13	68	0.4	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	13	70	0.78	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	13	77	0.51	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
4	13	81	0.57	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	13	82	0.8	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
4	13	84	1.23	DSI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	13	84	0.99	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	13	86	1.23	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	13	86	0.12	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	14	13	0.19	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	14	22	1.48	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	14	22	0.88	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	14	22	0.52	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	14	24	0.86	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	14	24	1.05	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	14	24	0.45	SAI	H02	0.33	ODSCC TSP AXIAL	In Service via APC
4	14	57	1.41	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	57	0.32	SAI	H01	0.01	ODSCC TSP AXIAL	In Service via APC
4	14	57	0.36	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	14	57	0.17	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	14	59	0.74	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	60	0.46	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	14	75	0.82	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
4	14	77	1.22	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	14	77	0.67	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
4	14	77	0.17	SAI	H01	-0.02	ODSCC TSP AXIAL	In Service via APC
4	14	77	0.17	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	14	78	0.55	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	14	79	0.86	DSI	H02	-0.32	ODSCC TSP AXIAL	In Service via APC
4	14	81	0.46	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	14	82	1.41	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	14	82	0.11	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
4	14	83	0.96	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	85	0.44	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	14	86	1.46	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	14	86	0.72	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	14	86	0.68	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	14	86	0.25	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	14	86	0.17	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	14	86	0.2	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	14	88	0.95	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	88	0.56	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	14	89	0.93	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	14	90	1.05	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	90	0.86	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	14	90	0.32	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	14	91	0.59	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	92	1.4	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	14	92	0.3	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	14	92	0.2	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	15	4	0.61	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	15	22	0.24	DSI	C05	-0.06	ODSCC TSP AXIAL	In Service via APC
4	15	38	0.65	DSI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	15	39	1.05	DSI	H01	-0.05	ODSCC TSP AXIAL	In Service via APC
4	15	39	0.42	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	15	48	0.85	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	15	48	0.59	DSI	H03	-0.18	ODSCC TSP AXIAL	In Service via APC
4	15	50	0.48	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	15	50	0.4	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	15	51	0.58	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	15	52	1.42	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	15	52	0.14	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	15	52	0.44	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	15	53	1.07	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	15	53	0.23	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
4	15	53	0.25	SAI	H01	0.1	ODSCC TSP AXIAL	In Service via APC
4	15	53	0.19	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	15	53	0.21	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	15	54	0.7	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	15	54	0.62	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	15	61	0.27	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	15	62	0.71	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	15	63	0.52	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	15	63	0.53	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	15	64	0.92	DSI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	15	65	0.52	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	15	65	0.51	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	15	65	0.59	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	15	66	0.44	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	15	67	0.66	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	15	69	0.48	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	15	78	0.65	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	16	23	0.58	DSI	H05	0.27	ODSCC TSP AXIAL	In Service via APC
4	16	35	0.24	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	16	43	0.46	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	16	45	0.52	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	16	50	0.83	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	16	59	0.9	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	16	61	0.73	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	16	80	0.59	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	16	83	0.48	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	16	89	1.17	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	16	89	0.17	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	16	89	0.17	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	16	90	0.2	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	16	91	0.95	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	17	9	0.4	DSI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	17	13	0.83	DSI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	17	13	0.4	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	17	15	0.94	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	17	21	1.29	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.73	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.21	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.14	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.12	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.16	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.25	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	17	21	0.14	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	17	26	1.12	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
4	17	26	1.46	DSI	H02	0.24	ODSCC TSP AXIAL	In Service via APC
4	17	26	0.16	SAI	H02	-0.02	ODSCC TSP AXIAL	In Service via APC
4	17	26	0.23	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	17	26	0.34	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
4	17	27	1.82	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	27	0.34	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	17	27	0.09	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	17	27	0.21	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	17	27	0.35	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	17	29	0.62	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	30	0.71	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	30	0.89	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	17	31	0.61	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	17	32	0.48	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	17	55	0.45	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	55	0.64	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	17	56	0.89	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	17	56	0.21	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	17	57	0.72	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	17	58	0.52	DSI	H01	0	ODSCC TSP AXIAL	PLUG
4	17	58	0.76	DSI	H03	-0.03	ODSCC TSP AXIAL	PLUG
4	17	61	0.6	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	62	0.63	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	17	72	0.45	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	75	0.55	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	76	0.6	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	17	78	0.38	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	17	80	0.73	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	17	81	0.53	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	82	1.49	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	82	0.61	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	17	82	0.32	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	17	82	0.16	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	17	83	0.16	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	84	0.86	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	17	85	0.4	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	17	87	1.33	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	17	87	0.49	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	17	87	0.42	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	17	88	0.74	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	88	0.51	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	17	90	0.32	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	17	91	0.71	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	11	0.17	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	18	13	0.59	DSI	C05	0	ODSCC TSP AXIAL	In Service via APC
4	18	14	1.1	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	18	14	1.22	DSI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	18	14	0.11	SAI	H02	-0.04	ODSCC TSP AXIAL	In Service via APC
4	18	14	0.3	SAI	H02	-0.01	ODSCC TSP AXIAL	In Service via APC
4	18	14	0.47	SAI	H02	0.34	ODSCC TSP AXIAL	In Service via APC
4	18	15	0.56	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	18	15	0.69	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	18	15	0.32	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	15	0.23	DSI	H04	0.15	ODSCC TSP AXIAL	In Service via APC
4	18	16	0.4	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	16	0.32	DSI	H06	0.13	ODSCC TSP AXIAL	In Service via APC
4	18	17	0.41	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	21	0.67	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	18	21	0.44	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	18	21	0.64	DSI	H04	-0.12	ODSCC TSP AXIAL	In Service via APC
4	18	24	0.52	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	25	0.44	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	27	0.59	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	18	29	0.63	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	18	32	0.46	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	33	1.35	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	33	0.92	DSI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	18	33	0.58	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	33	0.21	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	33	0.22	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	18	33	0.49	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	18	36	0.93	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	36	0.32	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	36	0.57	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	38	0.29	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	40	1.03	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	18	40	0.24	DSI	H05	0.15	ODSCC TSP AXIAL	In Service via APC
4	18	40	0.31	SAI	H01	-0.08	ODSCC TSP AXIAL	In Service via APC
4	18	40	0.2	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	18	40	0.16	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
4	18	41	0.37	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	42	0.37	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	18	42	0.36	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	46	0.6	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	18	48	0.43	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	18	49	1.12	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	18	49	0.18	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
4	18	49	0.19	SAI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
4	18	50	0.61	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	51	0.41	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
4	18	57	0.98	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	57	0.71	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	18	58	0.91	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	59	0.75	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	61	0.66	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	18	62	0.94	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	18	64	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	18	67	0.82	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	18	69	0.43	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	19	8	0.51	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	19	12	0.36	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	29	0.59	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	19	34	0.47	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	19	35	0.64	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	37	0.63	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	19	42	0.85	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	19	43	1.18	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
4	19	43	0.25	SAI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	19	43	0.57	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	19	50	0.44	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	51	1.28	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	19	51	0.28	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	19	53	0.25	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	19	56	0.38	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	19	58	0.2	DSI	H07	0.09	ODSCC TSP AXIAL	In Service via APC
4	19	63	0.9	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	71	0.73	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	72	0.63	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	19	75	0.69	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	19	75	0.6	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	19	76	0.43	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	19	77	0.96	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	19	77	0.66	DSI	H02	-0.2	ODSCC TSP AXIAL	In Service via APC
4	19	84	1.25	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	19	84	0.17	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	19	84	0.14	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	19	87	0.25	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	19	89	0.7	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	19	90	0.57	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	12	0.78	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	15	1.26	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	20	15	0.42	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	20	17	0.24	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	19	0.24	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	20	0.39	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	25	1.58	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.45	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.35	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.23	DSI	H07	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.2	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.3	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.43	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	20	25	0.37	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
4	20	26	0.8	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	27	0.52	DSI	H06	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	29	1.26	DSI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	20	29	0.63	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	29	0.21	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	20	29	0.3	SAI	H02	0.34	ODSCC TSP AXIAL	In Service via APC
4	20	30	1.1	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	20	30	0.64	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
4	20	30	0.35	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	20	31	0.71	DSI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	20	31	0.45	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	31	0.56	DSI	H04	0.23	ODSCC TSP AXIAL	In Service via APC
4	20	31	0.68	DSI	H05	-0.12	ODSCC TSP AXIAL	In Service via APC
4	20	32	1.47	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	32	0.13	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	20	32	0.33	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	32	0.24	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	20	32	0.26	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	20	34	0.73	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	20	34	1.14	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	34	0.14	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	20	34	0.34	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	20	36	0.2	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	37	1.15	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	37	0.35	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	20	37	0.31	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	20	37	0.21	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	20	37	0.25	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	20	38	0.47	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	20	38	0.41	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	20	39	1.08	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	20	39	0.37	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	39	0.89	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	39	0.13	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
4	20	39	0.14	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	20	39	0.31	SAI	H01	0.34	ODSCC TSP AXIAL	In Service via APC
4	20	40	2.02	DSI	H01	0.08	ODSCC TSP AXIAL	PLUG
4	20	40	0.51	DSI	H05	0.03	ODSCC TSP AXIAL	PLUG
4	20	40	0.76	SAI	H01	0.29	ODSCC TSP AXIAL	PLUG
4	20	40	0.43	SAI	H01	0.3	ODSCC TSP AXIAL	PLUG
4	20	44	0.71	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	20	44	0.72	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	46	1.38	DSI	H02	-0.24	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.57	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.62	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.09	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.18	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.19	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	20	46	0.33	SAI	H02	0.33	ODSCC TSP AXIAL	In Service via APC
4	20	47	0.5	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	20	47	0.52	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	47	0.6	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	20	47	0.24	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	20	48	1.1	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	48	1.09	DSI	H02	-0.18	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.19	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.12	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.49	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.24	SAI	H02	-0.07	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.15	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	20	48	0.26	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.38	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.8	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	49	1.03	DSI	H03	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.74	DSI	H04	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.26	SAI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.11	SAI	H03	0.33	ODSCC TSP AXIAL	In Service via APC
4	20	49	0.16	SAI	H03	0.35	ODSCC TSP AXIAL	In Service via APC
4	20	50	0.78	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	51	0.9	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	20	51	0.26	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	51	0.71	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	20	52	1.08	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	52	0.33	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	20	52	0.22	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	20	52	0.27	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	20	53	0.23	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	53	0.69	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	20	54	0.61	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	55	0.66	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	20	55	0.61	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	56	0.42	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	20	56	0.46	DSI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
4	20	56	0.28	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	20	57	1.32	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.29	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.26	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.21	SAI	H01	-0.02	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.26	SAI	H01	-0.01	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.2	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	20	57	0.13	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	20	58	0.86	DSI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	20	58	0.82	DSI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	20	58	0.19	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	59	0.87	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	59	0.93	DSI	H04	0.11	ODSCC TSP AXIAL	In Service via APC
4	20	59	0.27	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	20	60	1.16	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	20	60	0.31	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	20	60	0.2	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	20	61	0.52	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	20	62	0.72	DSI	H01	-0.14	ODSCC TSP AXIAL	In Service via APC
4	20	63	0.85	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	64	0.78	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	64	0.97	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	20	65	0.54	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	20	66	0.29	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	20	68	0.76	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	69	1.98	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	69	0.31	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	20	69	0.39	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	20	69	0.31	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	20	69	0.49	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	20	70	1.07	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	20	70	0.15	SAI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	20	70	0.49	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	21	12	0.51	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	21	15	0.53	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	21	19	0.57	DSI	C05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	21	21	0.7	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	21	39	1.15	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	21	39	1.11	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	21	39	0.17	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	21	39	0.43	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	21	39	0.46	SAI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	21	39	0.27	SAI	H02	0.07	ODSCC TSP AXIAL	In Service via APC
4	21	43	0.31	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	21	44	0.7	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	21	45	0.77	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	21	48	0.71	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	21	48	1.07	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	21	48	0.54	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
4	21	48	0.24	SAI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
4	21	48	0.3	SAI	H02	0.34	ODSCC TSP AXIAL	In Service via APC
4	21	51	1.26	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	21	51	0.54	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	21	51	0.18	SAI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	21	51	0.31	SAI	H01	0.27	ODSCC TSP AXIAL	In Service via APC
4	21	60	0.37	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	21	75	0.63	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	21	83	0.62	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	21	85	0.31	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	21	87	0.79	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	21	88	1.1	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	21	89	0.59	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	22	8	0.44	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	22	17	0.35	DSI	C04	-0.09	ODSCC TSP AXIAL	In Service via APC
4	22	17	0.38	DSI	C05	-0.06	ODSCC TSP AXIAL	In Service via APC
4	22	17	0.31	DSI	H06	0.15	ODSCC TSP AXIAL	In Service via APC
4	22	18	0.3	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	22	23	0.78	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	22	24	0.47	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	22	25	0.67	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	22	25	0.75	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	22	33	1.35	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	22	33	1.71	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	22	33	0.11	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	22	33	0.15	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
4	22	33	0.43	SAI	H02	-0.02	ODSCC TSP AXIAL	In Service via APC
4	22	37	0.4	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	22	41	1.2	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	22	41	1.44	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.54	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.16	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.29	SAI	H01	0.25	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.25	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.33	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
4	22	41	0.34	SAI	H02	0.34	ODSCC TSP AXIAL	In Service via APC
4	22	45	0.46	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	22	45	0.95	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	22	46	0.83	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	22	46	0.79	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	22	46	0.53	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	22	47	0.77	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	22	47	1.21	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	22	47	0.16	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	22	47	0.77	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	22	59	0.43	DSI	H02	0.08	ODSCC TSP AXIAL	PLUG
4	22	59	0.7	SAI	H01	0.13	ODSCC TSP AXIAL	PLUG
4	22	65	0.61	DSI	H01	-0.22	ODSCC TSP AXIAL	In Service via APC
4	22	67	0.59	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	22	68	0.9	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	22	71	0.45	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	23	12	0.33	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	14	0.49	DSI	C05	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	40	0.29	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	41	0.28	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	41	0.71	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	23	41	0.4	SAI	H02	0.23	ODSCC TSP AXIAL	In Service via APC
4	23	42	0.44	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	43	0.37	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	44	0.38	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	45	0.73	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	45	0.42	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	54	1.29	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	23	54	0.59	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	23	54	0.36	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	23	54	0.17	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	23	54	0.13	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	23	56	0.28	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	23	60	0.74	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	60	0.58	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	61	0.41	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	23	63	1.45	DSI	H01	-0.17	ODSCC TSP AXIAL	In Service via APC
4	23	63	0.34	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	23	63	0.33	SAI	H01	0.02	ODSCC TSP AXIAL	In Service via APC
4	23	63	0.46	SAI	H01	0.26	ODSCC TSP AXIAL	In Service via APC
4	23	64	1.15	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	23	64	0.22	SAI	H01	-0.07	ODSCC TSP AXIAL	In Service via APC
4	23	64	0.3	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	64	0.47	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	23	65	0.93	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	66	1.28	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	23	66	0.54	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	23	66	0.66	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	23	67	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	68	0.8	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	23	69	0.74	DSI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	23	69	0.76	DSI	H02	0.29	ODSCC TSP AXIAL	In Service via APC
4	23	70	1.31	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	23	70	0.58	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	23	70	0.63	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	23	71	0.63	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	71	0.58	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	23	72	0.91	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	23	73	1.07	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	23	73	0.86	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	23	73	0.27	DSI	H06	-0.09	ODSCC TSP AXIAL	In Service via APC
4	23	73	0.23	SAI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	23	73	0.09	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	23	73	0.09	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	23	74	0.86	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	23	74	0.15	SAI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	23	74	0.18	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	23	75	0.83	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	23	75	0.71	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	23	75	0.9	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	23	84	0.6	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	85	0.57	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	86	1	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	86	0.98	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	23	86	0.4	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	23	86	0.2	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	23	86	0.18	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	23	86	0.19	SAI	H02	0.13	ODSCC TSP AXIAL	In Service via APC
4	23	87	1.22	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	87	0.25	SAI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
4	23	88	0.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	23	88	0.81	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	23	88	0.11	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
4	23	88	0.1	SAI	H03	0.27	ODSCC TSP AXIAL	In Service via APC
4	24	10	0.23	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	24	15	0.33	DSI	C05	0	ODSCC TSP AXIAL	In Service via APC
4	24	22	0.19	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	24	26	0.32	DSI	C02	0.03	ODSCC TSP AXIAL	In Service via APC
4	24	46	0.98	DSI	H01	-0.2	ODSCC TSP AXIAL	In Service via APC
4	24	52	0.67	DSI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	24	56	0.59	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	24	57	0.55	DSI	H01	-0.21	ODSCC TSP AXIAL	In Service via APC
4	24	62	0.38	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	25	21	0.93	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	25	22	0.67	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	25	34	0.77	DSI	H01	-0.15	ODSCC TSP AXIAL	In Service via APC
4	25	40	2.12	DSI	H01	0	ODSCC TSP AXIAL	PLUG
4	25	40	0.75	DSI	H02	0	ODSCC TSP AXIAL	PLUG
4	25	40	0.13	SAI	H01	0.17	ODSCC TSP AXIAL	PLUG
4	25	40	0.3	SAI	H01	0.21	ODSCC TSP AXIAL	PLUG
4	25	40	0.66	SAI	H01	0.3	ODSCC TSP AXIAL	PLUG
4	25	41	1.01	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	25	41	0.41	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	25	41	0.18	SAI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	25	41	0.11	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	25	42	1.53	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	25	42	0.39	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	25	43	1.02	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	25	43	0.31	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	25	46	0.35	DSI	C05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	25	47	0.45	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	25	49	1.49	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	25	49	0.14	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	25	49	0.38	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
4	25	51	0.62	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	25	53	1.04	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	25	53	0.52	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	25	53	0.24	SAI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	25	53	0.31	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	25	53	0.27	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
4	25	53	0.19	SAI	H01	0.32	ODSCC TSP AXIAL	In Service via APC
4	25	57	1.01	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	25	57	0.7	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	25	57	0.68	DSI	H04	-0.11	ODSCC TSP AXIAL	In Service via APC
4	25	57	0.26	SAI	H01	0.01	ODSCC TSP AXIAL	In Service via APC
4	25	57	0.22	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	25	58	0.63	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	25	58	1.11	DSI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	25	58	0.51	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	25	59	0.45	DSI	H01	0.03	ODSCC TSP AXIAL	PLUG
4	25	60	1.04	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	25	60	1.03	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	25	60	0.37	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	25	60	0.16	SAI	H01	0.33	ODSCC TSP AXIAL	In Service via APC
4	25	60	0.18	SAI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	25	60	0.23	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	25	67	0.34	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	25	75	0.58	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	25	75	0.28	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
4	25	80	0.45	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	25	80	0.94	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	25	80	0.15	SAI	H01	0.07	ODSCC TSP AXIAL	In Service via APC
4	25	83	0.81	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	25	85	0.69	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	10	0.45	DSI	H03	0.25	ODSCC TSP AXIAL	In Service via APC
4	26	14	0.81	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	26	14	1.05	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	26	14	0.27	SAI	H03	0.27	ODSCC TSP AXIAL	In Service via APC
4	26	19	0.88	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	26	19	0.65	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	26	20	0.44	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	26	20	0.28	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	20	0.41	DSI	H04	0.12	ODSCC TSP AXIAL	In Service via APC
4	26	21	0.39	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	26	24	0.48	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	26	27	0.46	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	26	27	0.5	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	26	27	0.31	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	29	0.51	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	26	31	0.41	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	26	31	0.3	DSI	H06	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	35	0.91	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	26	36	0.73	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	26	43	0.29	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	26	47	0.24	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	26	48	0.28	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	26	51	0.33	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	26	57	0.19	DSI	H07	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	62	0.62	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	26	64	0.5	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	26	65	0.6	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	26	66	0.57	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	26	68	1.6	DSI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
4	26	68	0.41	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	26	68	0.51	SAI	H01	0.31	ODSCC TSP AXIAL	In Service via APC
4	26	69	0.82	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	26	71	0.67	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	26	71	0.28	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	26	72	0.49	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	26	73	1.08	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	26	73	0.09	SAI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	26	73	0.29	SAI	H02	-0.05	ODSCC TSP AXIAL	In Service via APC
4	26	83	0.48	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	26	85	0.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	13	0.28	DSI	C05	-0.03	ODSCC TSP AXIAL	In Service via APC
4	27	14	0.5	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	15	1.21	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	27	15	0.24	SAI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	27	17	0.37	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	18	0.33	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	27	18	0.4	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	20	0.48	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	21	0.4	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	22	0.41	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	27	27	1.37	DSI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	27	27	0.26	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
4	27	27	0.25	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	27	40	0.57	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	27	45	1.05	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	27	45	0.18	SAI	H01	-0.02	ODSCC TSP AXIAL	In Service via APC
4	27	45	0.23	SAI	H01	0.13	ODSCC TSP AXIAL	In Service via APC
4	27	46	0.78	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	48	0.86	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	27	51	0.35	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	27	53	0.28	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	27	55	0.79	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	27	61	0.32	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	62	0.57	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	27	63	0.58	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	63	0.49	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	27	63	0.15	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	27	65	0.56	DSI	H01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	27	65	0.32	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	27	65	0.47	DSI	H03	-0.09	ODSCC TSP AXIAL	In Service via APC
4	27	66	0.68	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	27	66	0.33	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	67	0.54	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	27	69	1.03	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	27	69	0.18	SAI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
4	27	69	0.12	SAI	H01	0.21	ODSCC TSP AXIAL	In Service via APC
4	27	69	0.39	SAI	H01	0.28	ODSCC TSP AXIAL	In Service via APC
4	27	71	1.34	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	27	71	0.31	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	71	0.55	SAI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	27	71	0.2	SAI	H01	0.29	ODSCC TSP AXIAL	In Service via APC
4	27	72	0.63	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	27	72	0.67	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	73	2	DSI	H02	0.16	ODSCC TSP AXIAL	PLUG
4	27	73	0.68	DSI	H03	0	ODSCC TSP AXIAL	PLUG
4	27	73	0.66	SAI	H02	0.32	ODSCC TSP AXIAL	PLUG
4	27	73	0.51	SAI	H02	0.33	ODSCC TSP AXIAL	PLUG
4	27	74	0.29	DSI	C05	0	ODSCC TSP AXIAL	In Service via APC
4	27	74	0.93	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	74	0.83	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	27	74	0.34	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	27	75	1.04	DSI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	27	75	0.91	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	27	75	0.45	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	27	75	0.14	SAI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	75	0.11	SAI	H01	0.16	ODSCC TSP AXIAL	In Service via APC
4	27	75	0.17	SAI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	27	76	1.33	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	76	0.21	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	27	76	0.54	DSI	H05	-0.11	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.81	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.65	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	77	1.06	DSI	H03	0.26	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.53	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.21	SAI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.16	SAI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	77	0.16	SAI	H03	0.26	ODSCC TSP AXIAL	In Service via APC
4	27	78	0.66	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	78	0.85	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	27	79	1.19	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	79	0.84	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	79	0.16	SAI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	27	79	0.12	SAI	H01	0.35	ODSCC TSP AXIAL	In Service via APC
4	27	80	0.57	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	80	0.8	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
4	27	81	0.98	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	27	81	0.6	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	27	82	1.06	DSI	H03	-0.14	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	27	82	0.8	DSI	H05	0.08	ODSCC TSP AXIAL	In Service via APC
4	27	82	0.32	SAI	H03	0.19	ODSCC TSP AXIAL	In Service via APC
4	27	83	0.47	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	27	83	0.64	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	27	83	0.32	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
4	27	84	0.29	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	27	84	1.11	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	27	84	0.1	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
4	27	84	0.14	SAI	H02	0.04	ODSCC TSP AXIAL	In Service via APC
4	27	85	0.37	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	11	0.58	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	15	0.47	DSI	C07	-0.06	ODSCC TSP AXIAL	In Service via APC
4	28	17	0.36	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	20	0.47	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	28	24	0.5	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
4	28	24	0.21	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	28	26	0.26	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	28	28	0.78	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	28	30	1.51	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	30	0.37	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
4	28	30	0.46	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
4	28	33	0.38	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	35	1.2	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	28	35	0.25	SAI	H02	0.02	ODSCC TSP AXIAL	In Service via APC
4	28	35	0.29	SAI	H02	0.3	ODSCC TSP AXIAL	In Service via APC
4	28	37	0.42	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	40	0.63	DSI	H01	0.2	ODSCC TSP AXIAL	In Service via APC
4	28	40	0.33	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	45	0.85	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	47	0.33	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	28	48	1.24	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	48	1.08	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.09	SAI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.26	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.08	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.39	SAI	H01	0.3	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.16	SAI	H03	-0.18	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.35	SAI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.55	SAI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	28	48	0.15	SAI	H03	0.28	ODSCC TSP AXIAL	In Service via APC
4	28	52	0.74	DSI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	28	62	0.54	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	63	0.55	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	28	63	0.49	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	63	0.43	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	28	64	0.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	28	65	0.78	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	66	0.55	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	28	66	0.92	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	66	0.61	DSI	H03	-0.08	ODSCC TSP AXIAL	In Service via APC
4	28	67	1.31	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	28	67	0.17	SAI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	28	67	0.2	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	28	67	0.13	SAI	H01	0.22	ODSCC TSP AXIAL	In Service via APC
4	28	68	1.24	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	28	68	0.55	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	68	0.59	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	28	68	0.18	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	68	0.34	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	28	70	0.58	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	70	1.01	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	28	70	0.43	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	28	71	0.98	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	71	1.22	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	71	0.14	SAI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	28	71	0.17	SAI	H02	0.01	ODSCC TSP AXIAL	In Service via APC
4	28	71	0.13	SAI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	28	71	0.17	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
4	28	72	0.93	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	28	72	1.09	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	28	72	0.88	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	72	0.27	SAI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
4	28	73	0.85	DSI	H01	-0.18	ODSCC TSP AXIAL	In Service via APC
4	28	74	0.33	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	28	74	1.02	DSI	H03	0.2	ODSCC TSP AXIAL	In Service via APC
4	28	74	0.7	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	74	0.21	SAI	H03	0.16	ODSCC TSP AXIAL	In Service via APC
4	28	74	0.33	SAI	H03	0.29	ODSCC TSP AXIAL	In Service via APC
4	28	75	0.79	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	75	1.04	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	28	75	0.24	SAI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	28	75	0.22	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	28	75	0.15	SAI	H02	0.27	ODSCC TSP AXIAL	In Service via APC
4	28	76	0.35	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	76	0.43	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	28	77	0.83	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	77	0.31	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	28	78	0.86	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	28	78	0.27	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	28	79	0.71	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	28	79	0.49	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	79	0.26	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	28	80	0.54	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	80	0.82	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	28	81	0.26	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	81	0.51	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	28	81	0.83	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	28	81	0.45	DSI	H05	0.09	ODSCC TSP AXIAL	In Service via APC
4	28	82	1.1	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	28	82	0.13	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	28	82	0.15	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	28	83	0.55	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	28	84	0.34	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	28	85	0.53	DSI	C01	-0.09	ODSCC TSP AXIAL	In Service via APC
4	28	85	0.87	DSI	H02	-0.14	ODSCC TSP AXIAL	In Service via APC
4	29	14	0.36	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	29	18	0.99	DSI	H07	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	19	0.89	DSI	H02	-0.15	ODSCC TSP AXIAL	In Service via APC
4	29	19	0.67	DSI	H06	0.21	ODSCC TSP AXIAL	In Service via APC
4	29	26	1	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	29	26	0.59	SAI	H02	0.33	ODSCC TSP AXIAL	In Service via APC
4	29	27	0.44	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	29	27	0.27	DSI	H07	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	28	0.46	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	29	30	1.56	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	29	30	0.7	SAI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	29	30	0.46	SAI	H02	0.32	ODSCC TSP AXIAL	In Service via APC
4	29	33	0.47	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	29	35	0.42	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	29	35	0.24	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	29	38	0.75	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	38	0.47	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	42	1.03	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	29	42	0.15	SAI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
4	29	42	0.18	SAI	H02	0.25	ODSCC TSP AXIAL	In Service via APC
4	29	42	0.12	SAI	H02	0.31	ODSCC TSP AXIAL	In Service via APC
4	29	43	0.6	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	29	43	0.9	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	29	46	0.63	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	29	47	0.64	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	29	48	0.3	DSI	C06	-0.03	ODSCC TSP AXIAL	In Service via APC
4	29	48	0.69	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	29	50	0.81	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	29	50	0.79	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	29	51	0.79	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	29	56	0.72	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	29	57	0.45	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	58	0.51	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	59	0.37	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	29	60	0.88	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	29	63	0.38	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	29	71	0.3	DSI	H05	0	ODSCC TSP AXIAL	In Service via APC
4	29	73	0.78	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	29	76	0.33	DSI	C05	0.06	ODSCC TSP AXIAL	In Service via APC
4	30	17	0.22	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	30	18	0.49	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	30	21	0.96	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	30	21	0.59	DSI	H04	0.2	ODSCC TSP AXIAL	In Service via APC
4	30	21	0.12	SAI	H04	0.25	ODSCC TSP AXIAL	In Service via APC
4	30	25	0.46	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	30	28	0.11	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	30	54	0.48	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	30	54	0.31	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	30	71	0.38	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	30	74	0.35	DSI	C04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	30	76	0.34	DSI	C05	-0.11	ODSCC TSP AXIAL	In Service via APC
4	30	76	0.38	DSI	C06	-0.06	ODSCC TSP AXIAL	In Service via APC
4	30	77	0.95	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	30	80	0.3	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	30	81	0.31	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	31	34	0.8	DSI	H02	-0.09	ODSCC TSP AXIAL	In Service via APC
4	31	39	0.6	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	40	0.57	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	40	0.54	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	31	42	0.78	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	31	44	0.6	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	31	51	0.3	DSI	H06	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	54	0.38	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	55	0.67	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	31	58	0.7	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	31	58	1.55	DSI	H03	-0.14	ODSCC TSP AXIAL	In Service via APC
4	31	58	0.13	SAI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
4	31	58	0.15	SAI	H03	0.18	ODSCC TSP AXIAL	In Service via APC
4	31	58	0.32	SAI	H03	0.32	ODSCC TSP AXIAL	In Service via APC
4	31	59	0.44	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	31	59	0.44	DSI	H07	-0.03	ODSCC TSP AXIAL	In Service via APC
4	31	71	0.91	DSI	H01	-0.12	ODSCC TSP AXIAL	In Service via APC
4	31	71	1.13	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	31	71	0.77	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	71	0.3	SAI	H02	0.33	ODSCC TSP AXIAL	In Service via APC
4	31	72	0.85	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	31	72	0.87	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	72	0.72	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	31	76	0.75	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	31	78	0.39	DSI	H01	0.19	ODSCC TSP AXIAL	In Service via APC
4	32	20	0.51	DSI	H02	0.21	ODSCC TSP AXIAL	In Service via APC
4	32	28	0.23	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
4	32	39	0.54	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	32	44	0.35	DSI	H04	-0.06	ODSCC TSP AXIAL	In Service via APC
4	32	49	0.46	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	32	49	0.4	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	32	61	0.58	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	32	62	1.03	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.94	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.08	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.08	SAI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.16	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.18	SAI	H01	0.18	ODSCC TSP AXIAL	In Service via APC
4	32	62	0.18	SAI	H01	0.23	ODSCC TSP AXIAL	In Service via APC
4	32	63	0.82	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	32	63	0.24	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	32	64	0.44	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	32	64	0.79	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	32	65	0.31	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	32	65	0.48	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	32	65	0.23	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	32	66	0.81	DSI	H01	-0.11	ODSCC TSP AXIAL	In Service via APC
4	32	66	1.13	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
4	32	66	0.17	SAI	H03	0.01	ODSCC TSP AXIAL	In Service via APC
4	32	66	0.26	SAI	H03	0.02	ODSCC TSP AXIAL	In Service via APC
4	32	67	1.21	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	32	67	0.54	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	32	67	0.12	SAI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	32	67	0.29	SAI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	32	68	0.89	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	32	69	0.65	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	32	69	0.83	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	32	70	1.05	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	32	70	0.68	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	32	70	0.58	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	32	70	0.5	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	32	70	0.28	SAI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	32	71	0.78	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	32	71	0.57	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	32	73	0.35	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	32	73	0.83	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	32	73	0.14	SAI	H02	0.33	ODSCC TSP AXIAL	In Service via APC
4	32	74	0.46	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	32	74	0.54	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	32	75	0.58	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	32	75	0.66	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	32	77	0.92	DSI	H03	0.32	ODSCC TSP AXIAL	In Service via APC
4	32	77	0.6	DSI	H04	0.09	ODSCC TSP AXIAL	In Service via APC
4	33	21	0.51	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	33	24	0.51	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	33	45	0.8	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
4	33	51	0.8	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	33	54	0.27	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	33	55	0.41	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	33	56	0.93	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	33	59	0.74	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	33	65	0.93	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	33	67	0.51	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	33	68	0.66	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	34	24	0.61	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	34	25	0.85	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	34	28	0.77	DSI	H01	0.15	ODSCC TSP AXIAL	In Service via APC
4	34	30	0.48	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	34	32	0.32	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	34	33	0.58	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	34	33	0.27	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	34	43	0.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	34	44	0.68	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	34	47	0.79	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	34	47	0.6	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC



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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	34	47	0.55	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	34	48	0.39	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	34	49	0.74	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	34	50	1.37	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	34	50	0.45	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	34	50	0.2	SAI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
4	34	50	0.52	SAI	H03	0.26	ODSCC TSP AXIAL	In Service via APC
4	34	50	0.13	SAI	H03	0.27	ODSCC TSP AXIAL	In Service via APC
4	34	51	0.54	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	34	55	0.58	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	34	56	0.4	DSI	H01	0.11	ODSCC TSP AXIAL	In Service via APC
4	34	58	0.67	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	34	59	0.42	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	34	64	0.88	DSI	H02	-0.08	ODSCC TSP AXIAL	In Service via APC
4	34	65	0.51	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	34	65	0.57	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	34	65	0.4	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	34	66	0.63	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	34	68	0.48	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	34	69	0.68	DSI	H02	0.26	ODSCC TSP AXIAL	In Service via APC
4	34	69	0.73	DSI	H03	0.21	ODSCC TSP AXIAL	In Service via APC
4	34	70	0.81	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	34	71	0.96	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	34	72	0.98	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	34	73	0.55	DSI	H03	0.15	ODSCC TSP AXIAL	In Service via APC
4	34	76	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	34	77	0.4	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	34	77	0.52	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	34	78	0.67	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	35	20	0.6	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	35	33	0.22	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	35	35	0.39	DSI	H02	-0.06	ODSCC TSP AXIAL	In Service via APC
4	35	38	0.51	DSI	H03	0.03	ODSCC TSP AXIAL	In Service via APC
4	35	43	0.3	DSI	H04	-0.11	ODSCC TSP AXIAL	In Service via APC
4	35	46	0.44	DSI	H06	0	ODSCC TSP AXIAL	In Service via APC
4	35	62	0.3	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	35	65	0.24	DSI	C03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	35	65	0.29	DSI	H03	-0.06	ODSCC TSP AXIAL	In Service via APC
4	35	66	0.54	DSI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	35	69	0.34	DSI	C06	-0.12	ODSCC TSP AXIAL	In Service via APC
4	35	69	0.35	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	35	69	1.14	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	35	71	1.14	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	35	71	0.18	SAI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	35	72	0.45	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	35	73	0.44	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	35	73	0.84	DSI	H02	0.2	ODSCC TSP AXIAL	In Service via APC
4	35	74	0.42	DSI	H04	0.08	ODSCC TSP AXIAL	In Service via APC
4	36	24	0.7	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	36	26	0.35	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	36	36	0.56	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	36	44	0.53	DSI	H02	0.14	ODSCC TSP AXIAL	In Service via APC
4	36	46	0.28	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	36	46	0.21	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	36	47	0.43	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	36	47	0.33	DSI	H04	-0.05	ODSCC TSP AXIAL	In Service via APC
4	36	48	0.6	DSI	H02	-0.17	ODSCC TSP AXIAL	In Service via APC
4	36	48	0.48	DSI	H05	0.03	ODSCC TSP AXIAL	In Service via APC
4	36	50	0.56	DSI	H02	-0.19	ODSCC TSP AXIAL	In Service via APC
4	36	52	0.32	DSI	H01	-0.03	ODSCC TSP AXIAL	In Service via APC
4	36	52	0.67	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
4	36	52	0.47	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	36	52	0.16	SAI	H03	0.14	ODSCC TSP AXIAL	In Service via APC
4	36	54	0.33	DSI	H04	0.14	ODSCC TSP AXIAL	In Service via APC
4	36	56	0.83	DSI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
4	36	57	0.43	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	36	57	0.45	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	36	59	0.4	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	36	60	0.66	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC
4	36	60	0.36	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	36	62	1.03	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	36	62	0.47	SAI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
4	36	63	0.59	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	36	63	0.23	SAI	H02	0.28	ODSCC TSP AXIAL	In Service via APC
4	36	64	0.54	DSI	H02	0.22	ODSCC TSP AXIAL	In Service via APC
4	36	65	0.57	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	36	65	0.56	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	36	67	0.24	DSI	H06	-0.03	ODSCC TSP AXIAL	In Service via APC
4	36	68	0.52	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	36	71	0.78	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	36	72	0.57	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	36	72	0.4	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	37	35	0.49	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	37	37	0.28	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	45	0.47	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	37	45	0.67	DSI	H03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	37	45	0.18	SAI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	37	45	0.11	SAI	H02	0.17	ODSCC TSP AXIAL	In Service via APC
4	37	45	0.15	SAI	H02	0.19	ODSCC TSP AXIAL	In Service via APC
4	37	46	0.16	DSI	C06	0.11	ODSCC TSP AXIAL	In Service via APC
4	37	47	0.25	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	37	51	0.48	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	62	0.22	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	63	0.48	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	63	0.26	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	37	65	0.29	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	67	0.23	DSI	C05	0.06	ODSCC TSP AXIAL	In Service via APC
4	37	67	1.01	DSI	H01	0.17	ODSCC TSP AXIAL	In Service via APC
4	37	67	0.2	SAI	H01	0.24	ODSCC TSP AXIAL	In Service via APC
4	37	71	0.27	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	37	72	0.53	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	37	73	0.43	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC

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SC	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	38	21	0.41	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	38	24	0.35	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	38	25	0.54	DSI	H02	0.09	ODSCC TSP AXIAL	In Service via APC
4	38	25	0.18	DSI	H05	0.06	ODSCC TSP AXIAL	In Service via APC
4	38	26	0.48	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	38	26	0.2	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	38	27	0.46	DSI	H01	0.09	ODSCC TSP AXIAL	In Service via APC
4	38	27	0.43	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	38	30	0.55	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	38	32	0.51	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	38	34	0.52	DSI	H02	0.12	ODSCC TSP AXIAL	In Service via APC
4	38	38	0.27	DSI	H04	0.03	ODSCC TSP AXIAL	In Service via APC
4	38	49	0.53	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	38	55	0.45	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	38	57	0.86	DSI	H02	-0.12	ODSCC TSP AXIAL	In Service via APC
4	38	62	0.23	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	38	71	0.55	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	38	72	0.92	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	38	74	0.29	DSI	H03	0.08	ODSCC TSP AXIAL	In Service via APC
4	38	74	0.27	DSI	H04	0	ODSCC TSP AXIAL	In Service via APC
4	39	22	0.47	DSI	H01	0.03	ODSCC TSP AXIAL	In Service via APC
4	39	27	0.47	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	39	37	0.41	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	39	37	0.47	DSI	H04	-0.03	ODSCC TSP AXIAL	In Service via APC
4	39	38	0.31	DSI	C05	0.06	ODSCC TSP AXIAL	In Service via APC
4	39	41	0.41	DSI	H03	0.11	ODSCC TSP AXIAL	In Service via APC
4	39	41	0.31	DSI	H04	0.06	ODSCC TSP AXIAL	In Service via APC
4	39	42	0.55	DSI	H03	-0.08	ODSCC TSP AXIAL	In Service via APC
4	39	42	0.3	DSI	H04	-0.08	ODSCC TSP AXIAL	In Service via APC
4	39	44	0.66	DSI	H02	0	ODSCC TSP AXIAL	In Service via APC
4	39	44	0.13	SAI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	39	44	0.21	SAI	H02	0.1	ODSCC TSP AXIAL	In Service via APC
4	39	44	0.15	SAI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
4	39	45	0.52	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	39	45	0.55	DSI	H03	0.05	ODSCC TSP AXIAL	In Service via APC
4	39	47	0.39	DSI	H02	0.05	ODSCC TSP AXIAL	In Service via APC
4	39	47	0.63	DSI	H03	0	ODSCC TSP AXIAL	In Service via APC
4	39	49	0.81	DSI	H02	0.03	ODSCC TSP AXIAL	In Service via APC
4	39	50	0.55	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	39	64	0.6	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	39	66	0.27	DSI	H01	0.08	ODSCC TSP AXIAL	In Service via APC
4	39	67	0.49	DSI	H02	-0.03	ODSCC TSP AXIAL	In Service via APC
4	39	68	0.5	DSI	H03	0.2	ODSCC TSP AXIAL	In Service via APC
4	39	70	0.88	DSI	H03	-0.11	ODSCC TSP AXIAL	In Service via APC
4	39	71	0.39	DSI	H02	0.15	ODSCC TSP AXIAL	In Service via APC
4	39	71	0.18	SAI	H02	0.16	ODSCC TSP AXIAL	In Service via APC
4	40	29	0.4	DSI	H03	0.12	ODSCC TSP AXIAL	In Service via APC
4	40	33	0.54	DSI	H02	0.18	ODSCC TSP AXIAL	In Service via APC
4	40	43	0.66	DSI	H03	-0.05	ODSCC TSP AXIAL	In Service via APC
4	40	43	0.18	SAI	H03	0.1	ODSCC TSP AXIAL	In Service via APC
4	40	56	0.56	DSI	H02	-0.11	ODSCC TSP AXIAL	In Service via APC

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SG	ROW	COL	VOLTS	INDIC	LOC1	LOC2	CHARACTERIZATION	RESOLUTION
4	40	57	0.64	DSI	H01	0.12	ODSCC TSP AXIAL	In Service via APC
4	40	59	0.31	DSI	C03	-0.03	ODSCC TSP AXIAL	In Service via APC
4	40	67	0.65	DSI	H01	-0.06	ODSCC TSP AXIAL	In Service via APC
4	40	69	0.35	DSI	C01	-0.35	ODSCC TSP AXIAL	In Service via APC
4	40	69	0.4	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	40	71	0.37	DSI	H03	0.09	ODSCC TSP AXIAL	In Service via APC
4	41	37	0.42	DSI	H03	0.06	ODSCC TSP AXIAL	In Service via APC
4	41	52	0.62	DSI	H01	0.05	ODSCC TSP AXIAL	In Service via APC
4	41	52	0.93	DSI	H02	0.08	ODSCC TSP AXIAL	In Service via APC
4	41	57	0.57	DSI	H01	0.14	ODSCC TSP AXIAL	In Service via APC
4	41	58	0.35	DSI	H01	0	ODSCC TSP AXIAL	In Service via APC
4	41	58	0.45	DSI	H02	0.11	ODSCC TSP AXIAL	In Service via APC
4	41	65	0.42	DSI	C02	-0.25	ODSCC TSP AXIAL	In Service via APC
4	41	67	0.66	DSI	C01	-0.25	ODSCC TSP AXIAL	In Service via APC
4	42	38	0.44	DSI	H02	0.06	ODSCC TSP AXIAL	In Service via APC
4	42	42	0.3	DSI	H03	-0.08	ODSCC TSP AXIAL	In Service via APC
4	43	44	0.34	DSI	C05	0.06	ODSCC TSP AXIAL	In Service via APC
4	43	53	0.4	DSI	C02	-0.25	ODSCC TSP AXIAL	In Service via APC
4	43	65	0.5	DSI	H01	0.06	ODSCC TSP AXIAL	In Service via APC
4	44	62	0.79	DSI	C02	-0.37	ODSCC TSP AXIAL	In Service via APC
4	45	48	0.36	DSI	C01	-0.27	ODSCC TSP AXIAL	In Service via APC
4	45	49	0.22	DSI	C01	-0.35	ODSCC TSP AXIAL	In Service via APC
4	45	51	0.74	DSI	H04	-0.09	ODSCC TSP AXIAL	In Service via APC
4	45	52	0.59	DSI	H04	0.18	ODSCC TSP AXIAL	In Service via APC
4	45	55	0.37	DSI	C01	-0.31	ODSCC TSP AXIAL	In Service via APC
1	3	20	0.7	DSI	H02	-0.03	Preventive - APC	PLUG
1	40	24	1.2	DSI	H01	0.09	Preventive - APC	PLUG
3	20	35	1.9	DSI	H02	0.03	Preventive - APC	PLUG
4	5	34	1.22	DSI	H01	-0.03	Preventive - APC	PLUG
4	7	58	1.15	DSI	H01	-0.09	Preventive - APC	PLUG
4	9	30	1.25	DSI	H01	0.03	Preventive - APC	PLUG
4	12	33	1.53	DSI	H04	0.2	Preventive - APC	PLUG
4	13	15	1.03	DSI	H02	-0.12	Preventive - APC	PLUG
4	22	59	1.02	DSI	H01	-0.08	Preventive - APC	PLUG
4	1	32	0	OBS	H07	5.08	Preventive - OBS	PLUG
4	1	59	2.92	SAI	CTE	0.38	PWSCC CTE AXIAL	PLUG
4	1	59	1.67	SAI	CTE	0.55	PWSCC CTE AXIAL	PLUG
4	1	59	1.01	SAI	CTE	0.84	PWSCC CTE AXIAL	PLUG
4	1	59	1.98	SAI	CTE	0.86	PWSCC CTE AXIAL	PLUG
4	1	59	0.61	SAI	CTE	1.72	PWSCC CTE AXIAL	PLUG
3	1	56	0.36	SAI	HTS	-0.37	PWSCC HTS AXIAL	PLUG
4	28	50	0.61	SAI	HTS	-2.24	PWSCC HTS AXIAL	PLUG
4	20	76	0.69	SCI	HTS	-0.33	PWSCC HTS CIRC	PLUG
2	8	3	1.17	SAI	H07	32.43	PWSCC UBEND AXIAL	PLUG
2	4	71	1.48	SCI	H07	21.84	PWSCC UBEND CIRC	PLUG
2	6	58	0.42	SCI	H07	20.89	PWSCC UBEND CIRC	PLUG
2	6	74	0.66	SCI	H07	30.08	PWSCC UBEND CIRC	PLUG
2	7	78	1.13	SCI	H07	9.6	PWSCC UBEND CIRC	PLUG
2	7	78	0.51	SCI	H07	11.18	PWSCC UBEND CIRC	PLUG