MAY 07 1996

ENGINEERING DATA TRANSMITTAL

Page 1 of 1
1. EDT 615850

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11. Receiver Remarks: N/A		10. System/Bldg./Facility: AY/AZ TANK FARMS
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(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-W030-ATR-011, REV. 0	-	0	ACCEPTANCE TEST REPORT FOR W-030 MONITOR AND CONTROL SYSTEM (MCS) SOFTWARE	Q	2		

16.

KEY

Approval Designator (F)		Reason for Transmittal (G)				Disposition (H) & (I)		
E, S, O, D or /A (see WHC-CM-3-S, Sec.12.7)		1. Approval 2. Release 3. Information	4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)			1. Approved 2. Approved w/comment 3. Disapproved w/comment	4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged	

(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)								(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
2	1	Cog.Eng. BG Finch	B.G. Finch	4/25/96	R3-35	LF Hill	L.F. Hill	4/25/96	R3-25	2	1
2	1	Cog. Mgr. KA Colosi	K.A. Colosi	4/25/96	R3-25	JG Howell	J.G. Howell	4/25/96	R3-25	2	1
2	1	QA HM Chafin	H.M. Chafin	4/25/96	R3-25	FT Clifton	F.T. Clifton	4/25/96	R3-25	2	1
		Safety	/A								
		Env.	/A								

18. Signature of EDT Originator B.G. Finch 4/25/96	19. Authorized Representative Date for Receiving Organization K.A. Colosi 4/25/96	20. Cognizant Manager Date K.A. Colosi 4/25/96	21. DOE APPROVAL (if required) Ctrl. o. [] Approved [] Approved w/comments [] Disapproved w/comments
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ACCEPTANCE TEST REPORT FOR W-030 MONITOR AND CONTROL SYSTEM (MCS) SOFTWARE

B. G. Finch

Westinghouse, Richland, WA 99352

U.S. Department of Energy Contract DE-AC06-87RL10930

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Key Words: W-030, Acceptance Test Report, MICON Monitor and Control System, MCS, Software, Control Logic

Abstract: This report documents the tests performed under "Acceptance Test Procedure WHC-SD-W030-ATP-011, REV. 0", for "Project W 030 Tank Farm Ventilation Upgrade". This report covers testing of the Software Control Logic for the MICON Monitoring and Control System (MCS) FOR THE AY/AZ Tank Farms.

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5/6/96
Release Approval Date

Approved for Public Release

**ACCEPTANCE TEST REPORT FOR
W-030 MONITOR & CONTROL SYSTEM (MCS) SOFTWARE
(WHC-SD-W030-ATR-011, Rev. 0)**

**PROJECT W-030
TANK FARM VENTILATION UPGRADE**

W-030-ATP-011, REV. 0

ACCEPTANCE TEST REPORT FOR W-030 MONITOR AND CONTROL SYSTEM (MCS) SOFTWARE

Author: B. G. Finch
Company: Westinghouse Hanford
U.S. Department Of Energy Contract: DE-AC06-87RL10930

Abstract: This report documents the tests performed under "Acceptance Test Procedure WHC-SD- W030-ATP-011, REV. 0", for "Project W-030 Tank Farm VENTILATION Upgrade". This report covers testing of the Software Control Logic for the MICON Monitoring and Control System (MCS) for the AY/AZ Tank Farms

WHC-SD-W030-ATR-001, Rev. 0

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1.0 INTRODUCTION

This "Acceptance Test Report(ATR)" is being prepared in accordance with the Westinghouse Hanford procedures "WHC-CM-6-1 (Standard Engineering Practices), EP-4.2 (Testing Requirements)" and "WHC-IP-1026 (Engineering Practice Guidelines), Appendix K (Test Plans, Specifications, Procedures, and Reports)".

This ATR summarizes all the test results performed in accordance with the "Acceptance Test Procedure(ATP), WHC-SD-W030-ATP-011, Rev. 0, dated December 15, 1995 (Reference: Attachment "A").

The organizations that were involved in performing the ATP were as follows:

- a. TWRS Engineering (1-Cognizant Engineer).
- b. Project Support Services (2-Start-Up Engineers).
- c. East Tank Farm Operations (1-Lead Operator and 1-Shift Operator).
- d. East Tank Farm Maintenance (1-Instrument Technician).
- e. WHC Engineering Testing Laboratories (2-Senior Engineering Technicians).
- f. TWRS Projects Quality Assurance Engineer (1-Senior Q.A. Engineer).

The purpose of the ATP was to test the Control Logic Software that was written and down-loaded (to the MCS) by the Vendor (MICON) and to verify that it was functioning based on the ICF-Kaiser Control Logic Design. The equipment/software that was tested, was mocked-up at the 305 Lab Building which is located in the 300 Area.

The testing on this system commenced on December 11, 1995 and completed on January 15, 1996. All equipment was then packed-up and sent to the 200 East AY/AZ Tank Farm for installation.

The testing was funded by Project W-030, Tank Farm Ventilation Upgrade.

2.0 DESCRIPTION OF TEST

The system that was tested is a Distributed Control System manufactured by the vendor MICON out of Houston, Texas and purchased under U.S. Department of Energy Contract DE-AC06-87RL10930 for the W-030 Project.

The MICON hardware and software that was used in this test is as follows:

- a. Version Installation Data as of 12-11-95
- b. Sun Operating System: 4.1.4 (Solaris 1.1.2)
- c. Sun Openwindows: 3-414
- d. Run Version 3.0.51 (new)

- e. SYS-CNFG version 1.2.5
- f. Display Builder (A/S Draw) version 5601.48
- g. U32 eeprom versions: UR 5317 (new), UB 5310
- h. RCMA eeprom version RCA 5320 (new)
- i. RCMD eeprom version RCD 5320 (new)
- j. RCMF eeprom version RCF 5320 (new)
- k. GPLI eeprom versions: GB/GBX 5310
- l. LOI eeprom version DIG5

Note: U32 CPU eeproms are designated "UR", and U32 Bridge eeproms are designated "UB".

This equipment/software being tested is the equipment that will be installed and operated in the field (ie: in other words, this is not a prototype) upon completion and acceptance of testing.

3.0 TEST METHOD AND TEST EQUIPMENT

The acceptance testing was performed in accordance with the "Acceptance Test Procedure for W-030 Monitor and Control System Software (WMC-SD-W030-ATP-011, Rev. 0)" as shown in Attachment A.

The test was performed using the organizations listed in item 1.0 above. In order to get the test completed in an expedited manner, two shifts (days and swings) were worked for approximately one month in order to support the project schedule.

The instruments and equipment that was used for testing during this test are noted in Attachment A, Page 7.

4.0 TEST RESULTS

The overall testing was very successful. There were a few exceptions identified during the testing and these are noted in Attachment "A" (Appendix C & D). A summary of these "Test Exceptions (TE)" are noted below:

- a. TE #1 - Field Bus Alarms trip sporadically and more frequently when there is more Field Bus Activity.
- b. TE #2 - Colors used on group displays are inconsistent with the overall color scheme, as applied to the other (normal) display graphics.
- c. TE #3 - State Descriptors for tags on group displays are incorrect.
- d. TE #4 - Virtual Discrete(VD) State Descriptors incorrect in database and used on graphic such that the hand-switches show the wrong labels.

WMC-SD-W030-ATR-011, Rev. 0

- e. TE #5 - Tag Descriptions (as shown on groups) are not as defined in database in all cases.
- f. TE #6 - FIC-702-K3-3 (on P&ID) shows as a single controller, but is a actually implemented logic and on displays as two controllers.
- g. TE #7 - The configuration/cancel control does not affect the sequencer operation.
- h. TE #8 - Sequencer Time Delays interact with Starter Time Delays.
- i. TE #9 - Analog Input (AI) Alarm TI-702K2_1 Hi Hi @ 110 Degrees F (Priority 2) should be yellow on recent alarms, but it was white. In Group 171, Fault for 6A & 6B Damper Status should be yellow not white.
- j. TE #10 - Pressure Indicator PI-AZ2-K1-1 has LL(Low Low), L(Low), H(High) and HH(High High) alarms associated with it. After getting an alarm (say a LL), then if the PI value changes to where another alarm should be activated (say a L), the alarm is not activated. This is also true for the H and HH alarms as well.
- k. TE #11 - Field-Bus Monitoring screens need to be updated to reflect Field-Bus Logic changes.
- l. TE #12 - All Totalizer's have an Auto Rollover after a very long count time. These were not checked in most cases because, we did not have the time to wait.
- m. TE #13 - Digital Output(DO) channel 31-28 does not work. The output light does not come on and the contact does not switch state.
- n. TE #14 - A number of Screen items are not "highlited" or signed off and others were probably missed when that device was being checked, because many items are shown multiple screens.

All TE's noted above have a planned disposition which is documented on each "Test Exception Report" in Attachment "A". Appendix "D". All TE's will be added to the Project W-030 "Official Acceptance Of Construction (OAC) Punch List" and will be tracked until completed.

All items tested and verified are noted in the Attachments to this document.

The actual testing process included the following items, but were not limited to:

The ATP was approved by all involved parties on January 13, 1996 with Exceptions and Action Items noted in this report. All "Exceptions" and "Action Items" will be closed out in the next sequence of testing (ie: Pre-OTP's and OTP's).

6.0 DISPOSITION OF TEST ITEM

As noted earlier, the equipment/software that was tested under the ATP, was disassembled at the test site, packaged up and sent to the 200 East AY/AZ Tank Farms for installation and Start-up.

In order to complete Start-up on this system, a few other test will have to be performed. These tests are:

- a. Loop Checks on all instruments will need to be performed.
- b. Pre-Operational Testing.
- c. Operational Testing.

7.0 REFERENCES

- a. Acceptance Test Procedure WHC-SD-W030-ATP-011, Rev. 0, dated 12/15/95.
- b. WHC-CM-6-1, Standard Engineering Practices (EP-4.2, Testing Requirements).
- c. WHC-IP-1026, Standard Engineering Practice Guidelines (Appendix K, Test Plans, Specifications, Procedures, and Reports).
- d. U.S. Department of Energy Contract DE-AC06-87RL10930 for Project W-030.

8.0 ATTACHMENTS

- a. Attachment "A" - Acceptance Test Procedure for W030 Monitor and Control System (WHC-SD-030-ATP-011, Rev. 0)
Appendix "A" - Logic Sheet Acceptance Record.
Appendix "B" - Process Graphic Acceptance Record.
Appendix "C" - Test Exception List.
Appendix "D" - Test Exception Reports.
- b. Attachment "B" - Calibration Tables for the "Beckman Data Simulator".
- c. Attachment "C" - Master AI (Analog Input) Point List Report.
- d. Attachment "D" - Master AO (Analog Output) Point List Report.
- e. Attachment "E" - Master DI (Digital Input) Point List Report.
- f. Attachment "F" - Master DO (Digital Input) Point List Report.
- g. Attachment "G" - Master Alarm Points Listing.
- h. Attachment "H" - MICON Group Displays.
- i. Attachment "I" - MICON Process Graphic Screens.
- j. Attachment "J" - MICON Graphic Trend Display.
- k. Attachment "K" - Logbook Testing Record.
- l. Attachment "L" - MCS (Monitor and Control System) Control Logic.

ATTACHMENT "A"

ACCEPTANCE TEST PROCEDURE FOR
W-030 MONITOR AND CONTROL SYSTEM
(WHC-SD-W030-ATP-011)

DISTRIBUTION SHEET

To Distribution	From Tank Farm Projects	Page 1 of 1
		Date
Project Title/Work Order Acceptance Test Procedure, W-030 MCS Software		EDT No. 613205
		ECN No. --

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
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U.S. Department of Energy.
Richland Operations Office

C. R. Pacheco	S7-52	X			
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ICF Kaiser Hanford Company

J. L. Henderson	E6-22	X			
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Westinghouse Hanford Company

H. M. Chafin	R3-28	X			
F. T. Clifton	R3-25	X			
K. A. Colosi	R3-25	X			
B. G. Finch	R3-35	X			
M. D. Gerken	B4-08	X			
M. D. Harding	S5-10	X			
L. F. Hill	L6-13	X			
T. G. Howell	R3-25	X			
M. N. Islam	R3-08				X
S. R. Nelson	R3-01	X			X
G. L. Parsons	B4-08				X
S. R. Pierce	S5-05	X			
Project Database	G6-51	X			
Project Files	R1-28	X			
Central Files (orig. +2)	A3-88	X			

DEC 27 1995

ENGINEERING DATA TRANSMITTAL

Page 1 of 1
1. EDT No 613205

2. To: (Receiving Organization) W-030 Test Review Board		3. From: (Originating Organization) Project W-030, Tank Farm Projects		4. Related EDT No.: 610215	
5. Proj./Prog./Dept./Div.: Project W-030		6. Cog. Engr.: FT Clifton		7. Purchase Order No.: N/A	
8. Originator Remarks: Review of W-030 Draft acceptance test procedure by W-030 Test Review Board (TRB). Project W-030 provides the AY/AZ tank farms ventilation upgrade. The TRB has been established as having final approval authority for W-030 Test documents; see ref. EDT. Reviewers are requested to provide any comments by the noted response date, and resolve comments at the next meeting of the TRB. Members of the TRB who need support from other reviewers should make appropriate distribution of this EDT and collect comments as needed.				9. Equip./Component No.: N/A	
				10. System/Bldg./Facility: AY/AZ TANK FARMS	
11. Receiver Remarks:				12. Major Assm. Dwg. No.: N/A	
				13. Permit/Permit Application No.: N/A	
				14. Required Response Date: December 8, 1995	

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1	WHC-SD-W030-ATP-011	-	0	W030 MONITOR & CONTROL SYSTEM VENDOR SOFTWARE ACCEPTANCE TEST	SQ	4	2	

16. KEY											
Impact Level (F)		Reason for Transmittal (G)				Disposition (H) & (I)					
1, 2, 3, or 4 (see MRP 5.43)		1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)				1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged					
(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)								(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
4	1	Cog. Eng.	FT Clifton	12/10/95		MD Harding	M.D. Harding	12/16/95		4	1
4	1	Cog. Mgr.	KA Colosi	12/10/95		RL Pierce	RL Pierce	12/16/95		4	1
4	1	QA	HM Chafin	12/11/95		RL Henke	N/A			4	—
4	1					TG Howell	TG Howell	12/17/95		4	1
4	1					LF Hill	LF Hill	12/17/95		4	1
4	1	Safety	RM Nelson	12/17/95						4	1

18. Signature of EDT Originator FT Clifton 12/10/95		19. Authorized Representative Date for Receiving Organization KA Colosi 12/20/95		20. Cognizant/Project Engineer's Manager Date KA Colosi 12/20/95		21. DOE APPROVAL (if required) Ltr. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
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BD-7400-172-2 (07/91) GEF097

WHC-SD-W030-ATP-011, Rev. 0

Acceptance Test Procedure for W030 Monitor and Control System Software

L. F. Hill

WHC, Richland, WA 99352

U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: 613205

UC: 2030

Org Code: 8K240

Charge Code: NK201

B&R Code: EW3120071

Total Pages: 23

Key Words: W-030, Test, Procedure, MCS, Software, Logic

Abstract: Acceptance test procedure for Project W-030 Monitor and Control System (MCS) logic software; AY/AZ Tank Farm Ventilation Upgrade

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Release Approval

Date

Release Stamp

DATE:	HANFORD RELEASE	ID:
STA: 4		
DEC 27 1995		

Approved for Public Release

TEST TITLE W030 Monitor/Control System Software LogicLOCATION AY/AZ Tank FarmPROJECT NUMBER W-030PROJECT TITLE Tank Farm Ventilation Upgrade

Prepared By

L.F. Hill

PROCEDURE APPROVAL BY TEST REVIEW BOARD (TRB)

<u>Frank T. Clifton</u>	<u>12/14/95</u>	<u>M. D. Harding</u>	<u>12-15-95</u>
TRB Chair	Date	TWRS Operations	Date
<u>Bob Roe</u>	<u>12/18/95</u>	<u>Eric Dean</u>	<u>12/21/95</u>
TWRS Engineering	Date	TWRS Safety	Date
<u>Thomas J. Howell</u>	<u>12/14/95</u>	<u>Paul M. Chabin</u>	<u>12-20-95</u>
Construction Projects Startup	Date	Quality Assurance	Date
<u>Joe Colon</u>	<u>12/22/95</u>	<u>N/A</u>	<u>—</u>
Project Management	Date	ICF-KH Construction	Date

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3	RESPONSIBILITIES	3
4	CHANGE CONTROL	5
5	EXECUTION	6
6	EXCEPTIONS	6
7	PREREQUISITES, EQUIPMENT/INSTRUMENTS, AND ABBREVIATIONS	7
8	LOGIC TEST PROCEDURE	9

ATTACHMENT A

1 PURPOSE

This Acceptance Test Procedure (ATP) has been prepared to demonstrate the functionality of the W030 Tank Ventilation System logic.

2 REFERENCES

- 2.1 Configuration and testing requirements are detailed in WHC Purchase Order Contract WWB-SXP-516865 (with MICON Corp.), Modification #11 and associated correspondence.

3 RESPONSIBILITIES

3.1 GENERAL

Each company or organization participating in this ATP will designate personnel to assume the responsibilities and duties as defined herein for their respective roles. The designees shall become familiar with this ATP and the systems involved to the extent that they can perform their assigned duties.

3.2 WHC PROJECT ENGINEER

- 3.2.1 Designates a Test Director and interfaces with the Project Test Review Board.
- 3.2.2 Coordinates testing with 200-East Tank Farms Operations.
- 3.2.3 Supports Test Director in facilitating test activities.

3.3 TEST DIRECTOR

- 3.3.1 Coordinates and directs acceptance testing.
- 3.3.2 Confirms that field testing and inspection of the system or portion of the system to be tested has been completed.
- 3.3.3 Stops any test which, in his or her judgment, may cause damage to the system until the problem has been resolved.
- 3.3.4 After verifying there is no adverse impact, may alter the sequence in which systems or subsystems are tested.
- 3.3.5 Ensures that required environmental conditions are maintained.
- 3.3.6 If a test is to be suspended for a period of time, ensures that the system is left in a safe mode.
- 3.3.7 Before restarting suspended test, reverifies the test prerequisites.
- 3.3.8 Initiates ECNs to document required changes to the ATP.
- 3.3.9 Reviews recorded data, discrepancies, and exceptions.

- 3.3.10 Obtains information or changes necessary to clear or resolve objections during the performance of the test.
- 3.3.11 Signs Execution and Test Approval page when test has been performed.
- 3.3.12 Signs Exception Form when exception has been resolved.
- 3.3.13 Obtains required signatures on the ATP Master prior to reproduction and distribution.
- 3.3.14 Acts as liaison between the participants in acceptance testing.
- 3.3.15 Distributes the approved testing schedule before start of testing.
- 3.3.16 Schedules and conducts a pretest kickoff meeting with test participants when necessary.
- 3.3.17 Notifies the persons supporting the test 2 days before the start of testing.
- 3.3.18 Schedules a dry run when necessary.
- 3.3.19 Notifies concerned parties when a change is made in the testing schedule.
- 3.3.20 Signs Execution and Test Approval page when test is approved and accepted.
- 3.3.21 Takes necessary action to clear exceptions to the test.
- 3.3.22 Signs Exception Form when exception has been resolved.
- 3.3.23 Provides a distribution list for the approved and accepted ATP.
- 3.3.24 Approves all retest requirements and plans.

3.4 TEST PERFORMER; WITNESS

- 3.4.1 Witness the tests.
- 3.4.2 Review results of testing.
- 3.4.3 Assist the Test Director or Engineer when requested.
- 3.4.4 Sign Execution and Test Approval page when test has been performed.
- 3.4.5 Sign Exception Form when exception has been resolved.

3.5 TEST PERFORMER; RECORDER

- 3.5.1 Prepares a Field copy from the ATP Master.
- 3.5.2 Records names of all designated personnel on Field copy of ATP prior to start of testing.

- 3.5.3 Records test instrument identification numbers and calibration expiration dates, as required.
- 3.5.4 Initials and dates every test step on the Field copy as it is completed next to the step number or on a data sheet, when provided. Records test data. On data sheets where there is not room for both the initial and date, date may be entered at bottom of column.
- 3.5.5 Records objections and exceptions on an Exception form. Uses additional Exception forms as needed. Notifies the Test Director at time the objection is made.
- 3.5.6 Signs Execution and Test Approval page when test has been performed.
- 3.5.7 After test is finished, assigns alpha numeric page numbers to added data sheets and Exception forms. Records page numbers in the Table of Contents.
- 3.5.8 Signs Exception Form when exception has been resolved and transmits to Test Director.
- 3.6 TEST PERFORMER; TEST ENGINEER
- 3.6.1 Performs test under direction of the Test Director; may alternate as recorder or witness.
- 3.6.2 Confirms that all equipment required for performing test will be available at the start of testing.
- 3.6.3 Signs the Execution and Test Approval page.
- 3.7 PROJECT MANAGER AND/OR TEST REVIEW BOARD
- 3.7.1 Evaluate/approve test results.
- 4 CHANGE CONTROL

Required technical changes to this ATP must be processed on an engineering change notice (ECN) in accordance with company procedures. If a need for a significant change is discovered in the course of running the test, the test shall be stopped until the ECN is approved by the TRB. However, this does not prevent the running of another portion of the test unaffected by the change. A change to the master red-lined logic media does not constitute a procedural change. Test procedure administrative or editorial changes required during testing may be accommodated as exceptions in the released test report if the changes cannot affect operating facility safety, function, or performance and will not compromise or influence test data. Requirement changes, changes to acceptance criteria, or changes to Danger, Caution, Special Precautions, or other safety or environmental instructions must be made by ECN.

5 EXECUTION

5.1 OCCUPATIONAL SAFETY AND HEALTH

Individuals shall carry out their assigned work in a safe manner to protect themselves and others from undue hazards and to prevent damage to property and environment. Facility line managers shall assure the safety of activities within their areas to prevent injury, property damage, or interruption of operation. Performance of test activities shall always include safety and health aspects.

5.2 PERFORMANCE

5.2.1 Conduct testing in accordance with EP-4.2, Testing Requirements.

5.2.2 Perform test following the steps and requirements of this procedure.

6 EXCEPTIONS

6.1 GENERAL

Exceptions to the required test results are sequentially numbered and recorded on individual Exception forms. This enables case-by-case resolution and approval of each exception.

Errors/exceptions in the ATP itself or in the design logic media shall NOT be processed as test exceptions (see Section 4 CHANGE CONTROL).

6.2 RECORDING

6.2.1 Number each exception sequentially as it occurs and record it on the Exception Form provided in this procedure.

6.2.2 Enter applicable test procedure number and section.

6.2.3 Enter the name of the applicable test procedure.

6.2.4 Enter a description of the problem

6.2.5 Enter name and organization of originating party for each exception.

6.2.6 The Test Director will fill out and sign the Impact on Testing block.

6.3 RETEST/RESOLUTION

Record the action taken to resolve each exception. Action taken may not necessarily be the same as the planned action.

6.3.1 Enter the disposition to resolve the exception when such determination is made.

6.3.2 The party responsible for determining the disposition and retest requirements signs in the associated signature block.

6.3.3 When disposition actions are complete, sign and date the Disposition Actions Complete section of the Exception Report.

6.3.4 A section is provided for QAE concurrence if required.

6.4 APPROVAL AND ACCEPTANCE

The Test Director provides final approval and acceptance of exceptions by signing the Retest Complete section of the exception report.

The Test Director signs and dates the Exception Form and obtains other customer internal approvals, if required.

6.5 DISTRIBUTION

A copy of the approved Exception Form is distributed to each participant. The signed original is attached to the ATP Master.

7 PREREQUISITES, EQUIPMENT/INSTRUMENTS, AND ABBREVIATIONS

7.1 PREREQUISITES

The following conditions shall exist at start of testing for that portion of the system being tested.

7.1.1 Reference documents (including this ATP) have been verified for correct revision number and outstanding ECNs.

7.1.2 Test instruments have a valid calibration stamp attached. Test instrument identification numbers and calibration expiration dates have been recorded in Para 7.2.

7.1.3 120 V ac power is available.

7.2 EQUIPMENT/INSTRUMENTS

Supplied by Test Operator unless otherwise noted.

7.2.1 Digital Multimeter (DMM): 4-1/2 digit or better 0.5% minimum accuracy (ac volts).

Manufacturer Fluke Model No. 8024B Serial No. 752-45-08-001

Calibration Date _____ Expiration Date 4-28-96

7.2.2 Beckman Manual I/O Simulator: A minimum of 32 digital discrete output contact switches and 14 calibrated I/O channels at 4 - 20 ma.

Manufacturer Beckman Model No. 732121 Serial No. 10654

Calibration Date N/A Expiration Date N/A

. Also used a "Dial-A-Source", model no. 1050025GE for an input to Simulator.

- 7.2.3 Test switches and special wiring harness for simulating 120VAC input signals as required.

7.3 ABBREVIATIONS

ECN	Engineering Change Notice
RCM	Remote Control Module
LOI	Local Operation Indication
SPARC	Sun Microsystem Scalable Process Architecture
OS	Operating Station
HS	Hand Switch
DMM	Digital Multimeter

8 LOGIC TEST PROCEDURE

This test will demonstrate the functionality of the W030 Tank Ventilation System logic. Verify all prerequisites of Para 7.1 have been met. Perform the system logic testing in accordance with Attachment A.

9 FINAL TEST REPORT SUMMARY

The final test report shall include an executive summary of test results and shall include the following information as a minimum:

- Test start and completion dates
- MICON software run version and installation date
- Sun Operating System version
- Identification of patched files
- EEPROM versions

10 AUTHORIZED SIGNATURES

10.1 TEST DIRECTOR

Lowell F. Hill L F Hill 1/13/96
print name Date

10.2 TEST ENGINEERS

DOUG GERKEN Doug Gerken 1/13/96
print name Date

BRUCE G. FINCH Bruce G. Finch 1/13/96
print name Date

10.3 OTHER PERFORMERS (print each name on first line, date as above)

Vmmerk Vmmerk 1-13-96
TM ZYLINSKI Paul M. Zylinski 1-13-96
T.K. Nearey T.K. Nearey 1/13/96

ATTACHMENT A

LOGIC

TEST PROCEDURE

FOR

MICON-VIEW A/S SYSTEM

W-030 TANK FARM VENTILATION

UPGRADE

WESTINGHOUSE HANFORD CO.

WHC P.O. WWB-SXP-510865, Mod No. 11
MICON S.O. 32208

Rev. 0
November, 1995

MICON
Houston, Texas

ATTACHMENT A

CERTIFICATE OF CONFORMANCE

We hereby certify that the configuration developed by Powell Process Systems, Inc. (Micon) meets the requirements of WHC Purchase Order WWB-SXP-516865, Modification 11, as described by the Statement of Work (SOW), W030 Configuration Requirements Revision 1. Furthermore, Micon believes that the following Acceptance Test Procedure (ATP), as jointly developed with WHC, adequately provides for all necessary tests to demonstrate that the Micon configuration meets the requirements of the WHC SOW referenced above.

Certified By:

MICON QUALITY ASSURANCE MANAGER

DATE: 2/21/96

MICON PROJECT MANAGER

DATE: 2/21/96

ATTACHMENT A

W-030 Logic ATP, Rev 0

**W-030 TANK VENTILATION SYSTEM
LOGIC TEST PROCEDURE****1.0 INTRODUCTION**

This document defines testing to verify the control logic functionality for the W-030 project.

2.0 PREREQUISITES

It is assumed that the Beckman simulator will be available to provide Discrete Input and Analog Input/Output capability. Prior to the test, the MICON Analog Input cards will have jumpers set to be able to accept the input generated by the simulator.

All MICON controllers will be powered up with appropriate Field Bus connections made. All controller files will be downloaded and compiled in the RCM and U-32 controllers. All associated LOI groups will be downloaded to the appropriate U-32 controllers.

The four SPARC Workstations will have the most recent database and Run directories loaded on to them. Process graphics will be loaded on all SPARC Workstations and the databases merged and database resets will be performed on all workstations. At this time, the database will be copied to a Data.sav directory and the test will proceed using the original Data Directory.

3.0 RECORD KEEPING

- 3.1 Maintain a master red-lined set of Logic Drawing sheets as a working test record. Highlight each portion of the Logic AFTER that input, output, or logic function is determined to perform as prescribed. When testing of a specific logic sheet is completed, then complete the signoff sheet of Appendix A. These sign-off sheets, along with the highlighted logic markups, are an integral part of the test record.
- 3.2 Maintain a master list of the physical I/O tags as a working test record. Signoff each tag after testing confirms the specified range and alarm settings.

ATTACHMENT A

W-C30 Logic ATP, Rev 0

- 3.3 Maintain a master set of prints of the Process Graphic screens as a working test record. Highlight or signoff each properly performing item on the screen AFTER that item is determined to perform as described in the above steps. Since testing order is following the Logic diagrams, screen items will be tested in a random order. After all items on a screen have been tested, complete the signoff sheet of Appendix B. These sign-off sheets, along with the annotated screen prints, are an integral part of the test record.
- 3.4 Copies of alarm printouts while exercising the logic will also become a part of the test record.
- 3.5 During testing of Analog Loops, a printout of the trend displays showing control response to a setpoint change will become part of the test record.
- 3.5 Any test exceptions will be recorded and dated using Appendix 'C' forms. These test exceptions will also become an integral part of the Acceptance Test Report.
- 3.6 During the test period, any modifications that are required to be made to logic, will be performed on controller files in both the Data and Data.sav directories and will be noted on the master redline logic sheet. Any access to force intermediate tags in value displays will be made only in the test database (i.e Data). At the conclusion of the test, the test database will be saved as Data.test and recorded on tape to become an integral part of the record keeping. The original Data.sav directory, with any required modifications, will then be re-initialized into the normal Data directory as the final database for further operations.

Retest requirements will be developed for any modifications according to the nature and extent of the change.

ATTACHMENT A

W-030 Logic ATP, Rev 0

4.0 GENERAL TEST CONDUCT

Logic will be tested on a sheet by sheet basis. Process Graphics screens will be verified concurrently with the checkout of the Logic. Group displays on OS and LOI's will be verified for operator tags. Alarms will be monitored to verify proper operating ranges and that they are associated with the proper annunciator grouping. General test conduct for each sheet is as follows:

- 4.1 For the Logic sheet being tested, connect the physical Inputs and Analog outputs to the Beckman simulator testbox. Use this testbox to exercise all physical inputs. Monitor Analog Outputs via the ammeters on the simulator. Discrete Outputs can be verified by monitoring the LED status on the RCM controller or by verifying contact closure on the termination panel by the use of a multimeter.
- 4.2 Use the Process Graphic screen(s) to manipulate all normal operator functions.
- 4.3 Intermediate points that cannot be simulated or forced from the Process Graphics may be turned on or off as necessary via the value table display.
- 4.4 For each Logic diagram, test each Input, Output, Handswitch, and Function Block in accordance with the applicable detailed procedure in section 5.0. After demonstrating proper performance, highlight each item on the record copy of the Logic Diagram to signify that it performs as specified in section 5.0.
- 4.5 Concurrently with 4.4, verify the proper response of applicable screen items as described in section 5.0. After demonstrating proper performance of an item on a Process Graphic screen, initial near the item on the record copy of the screen printout to signify that it performs properly.
- 4.6 After verifying proper range, alarms, and operation of a physical I/O tag, signoff the tag in the master Tag list.
- 4.7 Upon completion of each Logic diagram sheet, fill out the Appendix 'A' signoff sheet, noting any deviations or comments.

ATTACHMENT A

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- 4.8 Upon completion of all items on a Process Graphic screen, fill out the Appendix B signoff sheet, noting any deviations or comments.

5.0 DETAILED TEST PROCEDURES

This section enumerates minimum verifications for the different types of test items. In general, any item which does not function in accordance with the documentation or design should be noted as an exception.

5.1 ANALOG INPUTS & VIRTUAL ANALOGS

- 5.1.1 VA's follow the same procedure, except that where necessary, values will be entered for simulation purpose using the value table.
- 5.1.2 Adjust each Analog Input through a range of known values using the Beckman simulator.
- 5.1.3 Through the use of input auxiliary displays, verify the Analog Input range settings and alarm settings.
- 5.1.4 Verify the applicable Process Graphic(s) displays the Analog Inputs correctly, including any alarm settings.
- 5.1.5 Confirm existence of Analog Input tags in the associated group displays on both the OS and LOI.
- 5.1.6 Confirm existence of Analog Input tag in the associated trend displays and accessibility of the trend display from the associated process graphic display.

5.2 ANALOG OUTPUTS

- 5.2.1 Monitor Analog Outputs for correct response using the Beckman simulator.
- 5.2.2 Confirm the Analog Output is associated with the correct controller loop.
- 5.2.3 Confirm correct output value display by monitoring loop tags in groups on both the OS and the LOI.
- 5.2.4 Confirm output value is displayed correctly as a VA on the associated trend display for a given loop and that

ATTACHMENT A

W-030 Logic ATP, Rev 0

the trend display is accessible from the associated process graphic.

- 5.2.5 Verify the applicable Process Graphic (if any) displays the Analog Output correctly.

5.3 DISCRETE INPUTS

- 5.3.1 Use the Beckman simulator to open and close the Discrete Inputs.
- 5.3.2 Confirm that any associated status indication is correct on associated Process Graphic.
- 5.3.3 Confirm correct alarm operation as appropriate.
- 5.3.4 Confirm that the tag is on the appropriate group display at the OS and the LOI.

5.4 DISCRETE OUTPUTS

- 5.4.1 Confirm the correct operation of Discrete Outputs by monitoring the output LED on the RCM module.
- 5.4.2 Spot-check to verify proper relay operation by verifying contact operation with a multimeter on at least two channels on each RCM.
- 5.4.3 Confirm access has been configured for a given Discrete Output on its associated process graphic.

5.5 HAND SWITCHES (Virtual Discretes used for normal operator actions)

- 5.5.1 Confirm proper operation of the Operator Control Button on the Process graphic display, and proper result in the Logic.
- 5.5.2 Confirm the HS tags are included on the applicable group displays on both the OS and LOI.

5.6 ALARMS

- 5.6.1 Verify Alarm occurs as designed, including severity & color.

ATTACHMENT A

W-030 Logic ATP, Rev 0

- 5.6.2 Confirm Alarm trips the proper annunciator group (which allows transfer to the Process Graphic showing details of the alarm).
- 5.6.3 Confirm that Alarm are displayed correctly on the Process Graphic(s).
- 5.6.4 Verify proper clearing of the alarm.
- 5.6.5 Verify alarms are printed out while testing logic and applicable logic drawing is noted on printout.
- 5.7 LOGIC & LOGIC GRAPHICS
 - 5.7.1 Confirm the Logic Graphic screen(s) match the Logic Drawings (red-lined version).
 - 5.7.2 Operate all inputs to each logic function and monitor the outputs to demonstrate that the logic function performs in accordance with the Logic Drawing.
 - 5.7.3 Confirm the tag and logic state changes as shown on the Logic Display are correct.
 - 5.7.4 Verify the Logic Graphic provides a "GOTO" to return to the associated Process Graphic.
 - 5.7.5 Verify time delays are in agreement with the Logic Design.
- 5.8 PROCESS GRAPHIC DISPLAYS
 - 5.8.1 Verify each Analog value changes appropriately when the associated Tag value is changed.
 - 5.8.2 Verify each process device (e.g. pumps, valves, etc) change to show the proper operating status as the associated inputs are changed.
 - 5.8.3 Verify that screen items linked to alarms properly change to flashing/solid alarm colors when the alarm occurs, and clear properly. Alarmable items include "Green" values and associated tags, and tags associated with process devices such as pumps, values, etc.
 - 5.8.4 Verify each Tag label on the graphic is in accordance with the P&ID.

ATTACHMENT A

W-030 Logic ATP, Rev 0

- 5.8.5 Verify each "GOTO" Navigation button switches to the proper screen.
- 5.8.6 Verify control buttons perform the indicated operations, and that the Legend is proper.
- 5.8.7 Verify status indications show the proper status as the underlying Tag values are changed.
- 5.9 GROUP & TREND DISPLAYS
 - 5.9.1 Confirm applicable Tags are included in the proper group displays on the OS and the LOI.
 - 5.9.2 Verify the state descriptors (shown on the group faceplate display) accurately denote the status of the system.
 - 5.9.3 Confirm all Analog Tags are included in trend displays and that appropriate trends are accessed from Process Graphic displays.

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W-030 Logic ATP, Rev 0

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIAL S	DATE

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

ATTACHMENT A

W-030 Logic ATP, Rev 0

APPENDIX 'B'

PROCESS GRAPHIC ACCEPTANCE RECORD

GRAPHIC FILENAME	MODIFICATIONS	COMMENTS	INITIALS	DATE

MICON QUALITY ASSURANCE MANAGER_____
WHC QUALITY ASSURANCE/QUALITY CONTROL_____
MICON PROJECT MANAGER_____
WESTINGHOUSE HANFORD CO.

TEST EXCEPTIONS LIST

[illegible]

WHC QUALITY ASSURANCE/QUALITY CONTROL

WESTINGHOUSE CORPORATION

ATTACHMENT A

W-030 Logic ATP, Rev 0

APPENDIX 'D'

TEST EXCEPTION REPORT			
TEST PROCEDURE NO. & SECTION:		TEST NAME:	T.E. NUMBER:
DESCRIPTION OF PROBLEM:			
ORIGINATOR:		IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☐ CONTINUE	
ORG:	DATE:	Test Director	DATE
DISPOSITION:			
DISPOSITION AND RETEST REQUIREMENTS BY:		DISPOSITION ACTIONS COMPLETE:	
<hr/> DATE		Verified By: <hr/> DATE	
QAE CONCURRENCE WITH DISPOSITION (if required):		RETEST COMPLETE:	
<hr/> DATE		Test Director <hr/> DATE	

APPENDIX "A"

LOGIC SHEET ACCEPTANCE RECORD

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y001	Red Lines are noted on Dwg. - To be As-Built later. It was changed to V05 (nu Symbol Rep. for V05) on Drawing	All Logic & Alarms are Verified.	B.D.T.	12/13/95
Y012	Red Lines are noted on Dwg. & will be As-Built later. Updates to Red Lines were incorporated in the Software.	All Logic & Alarms are Verified.	B.D.T.	12/13/95
Y006C	Red Lines are noted on Dwg. & will be updated (As-Built) later. Red Lines updated on Software.	All Logic & Alarms are Verified.	B.D.T.	12/13/95
Y017C	" " " "	" " " "	B.D.T.	12/13/95
Y010B	" " " "	" " " "	B.D.T.	12/13/95
Y002	NONE	Completed Logic TESTS	M.O.G.	12/12/95
Y003A	NONE	Completed Logic TESTS	M.O.G.	12/14/95
Y006A	NONE	Completed Logic TESTS	M.O.G.	12/19/95
Y006B	NONE	Completed Logic TESTS	B.D.T.	12/19/95

LOGIC SHEET ACCEPTANCE RECORD

APPENDIX 'A'

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LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y017A	NONE	COMPLETED LOGIC TESTS	D.G.	12/14/95
Y018A	NONE	COMPLETED LOGIC TESTS	D.G.	12/14/95
Y017B	NONE	COMPLETED LOGIC TESTS	D.G.	12/14/95
Y021B	NONE	COMPLETED LOGIC TEST	D.G.	12/14/95
Y007	NONE	COMPLETED LOGIC TEST	D.G.	12/14/95
Y047A	NONE	COMPLETED LOGIC TESTS	D.G.	12/15/95
Y047B	NONE	//	D.G.	12/15/95
Y047C	NONE	//	D.G.	12/15/95
Y048A	NONE	//	D.G.	12/14/95

MICON QUALITY ASSURANCE MANAGER

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MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y046B	NONE	COMPLETED LOGIC TESTS	DG.	12/15/95
Y048C	Incorporate Red Lines on DWGS.	All Logic has been checked & verified	G.D.F.	12/15/95
Y052A	NONE	All Logic checked & verified	G.D.F.	12/15/95
Y052B	Incorporate Red Lines	All Logic checked & verified	G.D.F.	12/15/95
Y052C	Incorporate Red Lines	All Logic checked & verified	G.D.F.	12/15/95
Y053A	NONE	All logic checked & verified	G.D.F.	12/15/95
Y053B	NONE	All Logic checked & verified	G.D.F.	12/15/95
Y053C	Incorporate Red Lines	All Logic checked & verified.	G.D.F.	12/15/95
Y101C	fixed	ALL checked & passed.	LPH	12/16/95

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y101D	MINOR TAG PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	12/16/95
Y107C	MINOR TAG PROBLEMS Etc	ALL LOGIC TESTED AND PASSED	D.J.	12/16/95
Y102D	//	//	D.G.	12/18/95
Y003	//	//	D.G.	12/18/95
Y112D	//	// MACRO NOT YET TESTED	D.G.	12/18/95
Y118C	//	//	D.G.	12/18/95
Y014A	Incorporate Red Lines	//	B.D.F.	12/18/95
Y108B	Incorporate Red Lines Changed a couple of TAGs to main circuit work correctly	//	B.D.F.	12/18/95
Y108C	Incorporate Red Lines -	//	B.D.F.	12/18/95

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y119C	Fixed Some Logic Tag Incorporate Red Lines	Logic has been tested & verified. FIELD BUS NOT YET TESTED	B.D.F.	12/19/95
Y031A	Incorporate Red Lines	Logic tested & Verified	B.D.F.	12/19/95
Y110C	several fixes	All tested except -- 1 FB input not tested	FFH	12/19/95
Y110D	OK	Logic tested & verified	FFH	12/19/95
Y036A	NONE	LOGIC TESTED AND PASSED	D.D.	12/19/95
Y021A	FIELD BUS LOGIC IS REVERSED	LOGIC TESTED AND PASSED EXCEPT FIELD BUS	D.D.	12/19/95
Y121C	NONE	LOGIC TESTED AND PASSED	D.D.	12/19/95
Y121D	NONE	LOGIC TEST AND PASSED	D.D.	12/19/95
Y200C	NONE	11	D.H.	12/19/95

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y202C	NONE	ALL LOGIC TESTED AND PASSED	D.J.	12/19/95
Y204C	OK	Several problems fixed	L.H.	12/20/95
Y206C	OK	Several problems fixed	L.H.	12/20/95
Y400C Y400C	MINOR LOGIC OT CHANGES	ALL LOGIC TESTED AND PASSED AFTER MINOR ERRORS FIXED	D.G.	12/20/95
Y402C Y402C	MINOR LOGIC CHANGES	ALL LOGIC TESTED AND PASSED	D.G.	12/20/95
Y191B	Incorporate Red Lines	All Logic Checked & Verified	B.D.F.	12/20/95
Y192B	Incorporate Red Lines	All Logic Checked & Verified	B.D.F.	12/21/95
★ Y952	Incorporated	Works as designed - but Logic should be evaluated. Need annunciator if Xfer SW is in error.	L.H.	12/21/95
Y404C	MINOR LOGIC CHANGES	ALL LOGIC TESTED AND PASSED	D.G.	12/21/95

MICON QUALITY ASSURANCE MANAGER

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MICON PROJECT MANAGER

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y408C	MINOR LOGIC & GRAPHIC CHANGES	ALL LOGIC TESTED AND PASSED	D. J.	12/21/95
Y408C	None	All Logic Tested and Verified	B.D.F.	12/22/95
Y410C	MINOR LOGIC NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/4/96
Y150E Y152A	MINOR LOGIC AND GRAPHIC CHANGES	ALL LOGIC TESTED AND PASSED	D.J.	1/4/96
Y412C	None	All Logic Tested and Verified (Passed)	B.D.F.	1/4/96
Y299B	MINOR LOGIC AND GRAPHIC CHANGES	ALL LOGIC TESTED AND PASSED	D.G.	1/5/96
Y299C	"	"	D.G.	1/5/96
Y299D	"	"	D.h.	1/5/96
Y299E	"	"	D.h.	1/5/96
Y299H	"	"		1/5/96

MICON QUALITY ASSURANCE MANAGER

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MICON PROJECT MANAGER

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y204B	ALL LOGIC MINOR CHANGES TO LOGIC & GRAPHICS	ALL LOGIC TESTED AND PASSED	D.J.	1/5/96
Y408B	↓	↓	↓	↓
Y410B	MINOR CHANGES TO LOGIC & GRAPHICS	ALL LOGIC TESTED AND PASSED	D.J.	1/5/96
Y424B	↓	↓	↓	
Y425B	↓	↓	D.J.	1/5/96
Y154A	Minor Changes made to tag name and ranges.	All Logic Tested and Verified. - Printout of Trends was made.	B.D.F.	1/5/96
Y155A	Minor Changes made to tag name and ranges.	All Logic Tested and Verified. - Printout made of Trends was made.	B.D.F.	1/5/96
Y300B	MINOR CHANGES TO LOGIC & GRAPHICS	ALL LOGIC TESTED AND PASSED	D.J.	1/6/96
Y362C	//	//	D.J.	1/6/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y299F	MINOR CHANGES TO LOGIC & GRAPHICS	ALL LOGIC TESTED AND PASSED	D.J.	1/6/96
Y299G	"	"	D.J.	1/6/96
Y412B	"	"	LEX	1/6/96
Y414B	"	"	LEX	1/6/96
Y206B	"	"	LEX	1/6/96
Y299J	"	Test Exception #8 was prepared for this logic.	B.D.F.	1/6/96
Y426B	Incorporate Redlines on dwg.	All Logic Tested & Verified.	B.D.F.	1/6/96
Y427B	Incorporate Redlines on dwg.	All Logic Tested & Verified.	B.D.F.	1/6/96
Y298B	Incorporate Redlines on dwg. & four minor tags were fixed.	All Logic Tested & Verified	B.D.F.	1/6/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

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APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y298D	Incorporate Red Lines on dwg.	All Logic Tested & Verified	B.D.F.	1/6/96
Y298E	Incorporate Red Lines on dwg.	All Logic Tested and Verified.	B.D.F.	1/6/96
Y298H	Incorporate Red Lines on dwg.	All Logic Tested & Verified	B.D.F.	1/6/96
Y420b	"	"	LPH	1/6/96
Y421b	"	"	LPH	1/6/96
Y200b	"	"	LPH	1/6/96
Y400b	"	"	LPH	1/6/96
Y402b	"	"	LPH	1/6/96
Y950A	"	"	B.D.F.	1/6/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y298C	Minor Changes to some tag names	All Logic Tested & Verified.	B.D.F.	1/6/96
Y298F	"	"	B.D.F.	1/6/96
Y298G	"	"	B.D.F.	1/6/96
Y195A	"	All Logic Tested & Verified	B.D.F.	1/8/96
Y423B	None	All Logic Tested & Verified	B.D.F.	1/8/96
Y422B	None	All Logic Tested & Verified	B.D.F.	1/8/96
Y196A	Added "NOT" Gates (4) to correct logic. Incorporate "Red Lines" on diag.	"	B.D.F.	1/8/96
Y298J	Incorporate "Red Lines" as shown on diag.	"	B.D.F.	1/8/96
Y202B	None	"	B.D.F.	1/8/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y900C	None	All Logic Tested & Verified.	B.D.F.	1/8/96
Y900K	HAD TO CORRECT TAG PROBLEMS ON Y900C, Y908C AND Y905C TO COMPLETE	ALL LOGIC TESTED AND PASSED	D.J.	1/8/96
Y951C	NONE	ALL LOGIC TESTED (AMP) AND PASSED	D.J.	1/8/96
Y907C	MINOR TAG AND LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	1/8/96
Y905C	minor tag & logic problems... they were fixed	" MALRB NOT YET TESTED	B.D.F.	1/8/96
Y908B	"	"	B.D.F.	1/9/96
Y905B	"	"	B.D.F.	1/9/96
Y999B	"	"	D.J.	1/9/96
Y999C	"	"	D.J.	1/9/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE / QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y999D	MINOR TAG & LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	1/9/96
Y999E	"	"	D.J.	1/9/96
Y900B			D.J.	1/9/96
Y904B			D.J.	
Y905C			D.J.	
Y907B			D.J.	
Y908C			D.J.	
Y999F	↓	↓	D.J.	↓
Y451A	None	All Logic Tested & Verified TE-12	B.B.F.	1/10/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE, QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y451B	Incorporate Rail Lines on dwg.	all Logic Tested and Verified TE-12	B.D.F.	1/10/96
Y912B	- Incorporate Rail Lines on dwg. - made Corrected minor Tag Problems	"	B.D.F.	1/10/96
Y913B	"	"	B.D.F.	1/10/96
Y914B	"	"	B.D.F.	1/10/96
Y199C	None	"	B.D.F.	1/10/96
Y199B	minor changes to Tags	"	B.D.F.	1/10/96
Y199E	None	"	B.D.F.	1/10/96
Y199D	NONE	"	B.D.	1/10/96
Y199F	"	"	B.D.	1/10/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE / QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y1996	NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/10/96
Y199H	NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/10/96
Y250A	Added Counter Boxes to Logic Diagram on Screen	"	B.D.F.	1/10/96
Y251A	"	"	B.D.F.	1/10/96
Y452B	None	" TE12	B.D.F.	1/10/96
Y107B	MINOR TAG AND LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	1/11/96
Y108B	↓	↓	↓	↓
Y191C	↓	↓	↓	↓
Y192C	↓	↓	B.D.F.	1-11-96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y112C	MINOR TAG AND LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	11/1/96
Y101B	↓	↓	D.J.	↓
Y110B			D.J.	↓
Y112B			D.J.	↓
Y118B			D.J.	↓
Y119B			D.J.	↓
Y121B			D.J.	↓
Y199J			D.J.	↓
Y199K			D.J.	↓

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE / QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y300B	NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/11/96
Y302B	NONE	"	D.J.	1/11/96
Y304B	MINOR TAG AND LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	1/11/96
Y452A	minor tag change.	" TE12	B.D.F.	1/12/96
Y404b	as noted	Not signed off but is done.	L.H.	1/12/96
Y406b	"	"	L.H.	1/12/96
Y097A	minor changes made to tag's. Incorporate Rail Lines on dwg.	All Logic Tested and Passed	B.D.F.	1/12/96
Y097B	"	"	B.D.F.	1/12/96
Y035A	"	"	B.D.F.	1/12/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y097C	MINOR TAG AND LOGIC PROBLEMS	ALL LOGIC TESTED AND PASSED	D.J.	1/14/96
Y981B	MINOR TAG AND LOGIC PROBLEMS		D.J.	1/21/96
Y995A	SEE TEST EXCEPTION 10 ON ALARMS		D.J.	1/12/96
Y450a	FIXED NO. TOTALIZERS	ALL LOGIC TESTED AND PASSED TE-12	D.J.	1/21/96
Y550	//	// TE-12	D.J.	1/21/96
Y609	FIXED FIELD BUS	//	D.J.	1/12/96
Y610	//	//	D.J.	1/12/96
Y110C	//	FIELD BUS NOT YET TESTED	D.J.	1/12/96
Y951D	CHANGED FIXED LOGIC	//	D.J.	1/12/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y350a	None	OK - TE12	LJA	1/13/96
Y153a	None	OK - TE12	LJA	1/13/96
Y009A	NONE	OK	D.J.	1/13/96
Y010A	NONE	OK	D.J.	1/13/96
Y020A	NONE	OK	D.J.	1/13/96
Y024A	NONE	FIELD BUS ONLY REST OF LOGIC DONE ON 12/14/96	D.J.	1/13/96
Y119C	NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/13/96
Y110C	NONE	//	D.J.	1/13/96
Y075C	NONE SEE MARKUP	ALL LOGIC TESTED AND PASSED	D.J.	1/13/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'A'

LOGIC SHEET ACCEPTANCE RECORD

LOGIC DWG #	MODIFICATIONS	COMMENTS	INITIALS	DATE
Y0750	SEE MARK UP NONE	ALL LOGIC TESTED AND PASSED	D.J.	1/14/96
Y075E			D.J.	1/13/96
Y076C			D.J.	
Y076D			D.J.	
Y1514			L.H.	1/13/96
Y153B Y153A			L.H.	1/13/96
Y951C Y951B Y951C	None	all logic tested and verified	B.D.F.	1/15/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

ATTACHMENT "A"

APPENDIX "B"

PROCESS GRAPHIC ACCEPTANCE RECORD

APPENDIX 'B'

PROCESS GRAPHIC ACCEPTANCE RECORD

GRAPHIC FILENAME	MODIFICATIONS	COMMENTS	INITIALS	DATE
01Help	None	All active components checked & passed	LZH	1/16/96
02Main	None	TE 14	LZH	1/16/96
03LockDT	None	TE 14	LZH	1/16/96
04Totals	None	TE 14	LZH	1/16/96
05Water	None	TE 14	LZH	1/16/96
06ExpAY1	TE 4 None	TE 4	LZH	1/16/96
07ExpAY2	None	TE 4	LZH	1/16/96
08ExpAZ1	None	TE 4	LZH	1/16/96
09ExpAZ2	None	TE 4	LZH	1/16/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'B'

PROCESS GRAPHIC ACCEPTANCE RECORD

GRAPHIC FILENAME	MODIFICATIONS	COMMENTS	INITIALS	DATE
10BcAY1	None	TE 14	LZH	1/16/96
11BcAY2	none	TE 14	LZH	1/16/96
12BcAZ1	none	TE 14	LZH	1/16/96
13BcAZ2	none	TE 14	LZH	1/16/96
14Ckillr	none	TE 14	LZH	1/16/96
15Pri In	none	TE 14	LZH	1/16/96
16Pri Coo	none	TE 14	LZH	1/16/96
17Pri Exh	none	TE 14	LZH	1/16/96
18Pri Mon	none	TE 14	LZH	1/16/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'B'

PROCESS GRAPHIC ACCEPTANCE RECORD

GRAPHIC FILENAME	MODIFICATIONS	COMMENTS	INITIALS	DATE
19 BldSup	none	TE14	LJA	1/16/96
20 BldExh	none	TE14	LJA	1/14/96
21 BldHm	none	TE14	LJA	1/16/96
22 BldTemp	none	TE14	LJA	1/16/96
23 DcIsol	none	All tested & passed	LJA	1/16/96
24 m Ranc	none	All tested & passed	LJA	1/16/96
25 m Exhst	none	All tested & passed	LJA	1/16/96
26 ExhRe	none	All tested & passed	LJA	1/16/96
27 m Bldg	none	All tested & passed	LJA	1/16/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

APPENDIX 'B'

PROCESS GRAPHIC ACCEPTANCE RECORD

GRAPHIC FILENAME	MODIFICATIONS	COMMENTS	INITIALS	DATE
28Comm	Fieldbus revised per TEI. Screen needs revision	TEI2	LJA	1/16/96
29 KA	none	All tested & passed	LJA	1/16/96

MICON QUALITY ASSURANCE MANAGER

WHC QUALITY ASSURANCE, QUALITY CONTROL

MICON PROJECT MANAGER

WESTINGHOUSE HANFORD CO.

ATTACHMENT "A"

APPENDIX "C"

TEST EXCEPTION LIST

APPENDIX 'C'

TEST EXCEPTIONS LIST

ITEM	DESCRIPTION	RESOLUTION
1	FIELD BUS ALARM FAULTY	✓
2	ALARM COLORS INCORRECT	N/A
3	State descriptors incorrect	(Tm)
4	VD state descriptors for HS's wrong	(Tm)
5	Tag descriptions on group displays	N/A
6	Dual FIC-702-K3-3	✓
7	Macro CONFIG/CANCEL button	✓
8	Macro Logic, Sequence Time Delays	✓
9	Alarm Color	✓
10	Alarm Operation with H & HH	✓
11	Fieldbus Monitoring screen	✓
12	Totalizer Auto reset	✓
13	TMAC'S "DO" NOT WORKING	✓
14	Incomplete screen checkout	✓

MICON QUALITY ASSURANCE MGR.

WHC QUALITY ASSURANCE/QUALITY CONTROL

MICON PROJECT MGR.

WESTINGHOUSE CORPORATION

ATTACHMENT "A"

APPENDIX "D"

TEST EXCEPTION REPORTS

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

4-75, 4-76, 4-77, 4-78

TEST NAME:

Alarms

T.E. NUMBER:

No. 1

DESCRIPTION OF PROBLEM:

Field Bus Alarms trip sporadically and more frequently when there is more field Bus activity.

As a temporary expedient, the alarm limits have been changed from 15 seconds to 300 seconds so to allow testing to continue while the issue/problem is being resolved.

ORIGINATOR:

B.G. Finch / L.F. Hill

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

ORG:

DATE:

12-11-95

L.F. Hill

PIC

L.F. Hill

DATE

12-11-95

DISPOSITION:

A design fix to the problem was worked out between MICON, KEH (Paul Bruns) & WHC (LFHill). With a better understanding of MICON operation, the new design is much simpler. The revised logic has been implemented & tested, & is documented on the red-lined test record, and will be incorporated into the "re-building" of HOC swgs. The required changes to the operator control screen are tracked by TE-11

DISPOSITION AND RETEST REQUIREMENTS BY:

L.F. Hill

DATE

1/15/96

DISPOSITION ACTIONS COMPLETE:

Verified

By:

L.F. Hill

DATE

1/15/96

OAE CONCURRENCE WITH DISPOSITION (if required):

N/A

DATE

RETEST COMPLETE:

L.F. Hill

PIC

1/15/96

DATE

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:	TEST NAME: Group DI Colors	T.E. NUMBER: 2
DESCRIPTION OF PROBLEM: Colors used on group displays are inconsistent with the overall color scheme, as applied to the other (normal) display graphics. For example - WHITE alarms may show up as YELLOW faults on a group display. Another example; YS_AZK12-1AA site 2 shows a GREEN fault condition. Problem is pervasive - the groups need a general review & correction of colors.		
ORIGINATOR: <i>L F Hill</i> 12/19/95 ORG: _____ DATE: _____	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE <i>L F Hill</i> 12/19/95 PIC _____ DATE _____	
DISPOSITION: A general review & revision of colors used on groups will be performed. Any changes made will not affect the controller file only the database & operator display.		
DISPOSITION AND RETEST REQUIREMENTS BY: _____ DATE _____	DISPOSITION ACTIONS COMPLETE: Verified _____ By: _____ DATE _____	
QAE CONCURRENCE WITH DISPOSITION (if required): _____ DATE _____	RETEST COMPLETE: _____ PIC _____ DATE _____	

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TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION: 4052 (Sub. 1)	TEST NAME: ZS-AZIK4-1A (Example)	T.E. NUMBER: No. 3																								
DESCRIPTION OF PROBLEM: <p>State descriptors for tags or group designations are incorrect.</p> <table border="0"> <tr> <td>Tag # ZS702K2-6AA</td> <td>Tag # ZS-AZIK4-1A</td> <td>Tag # ZS-AYIK4-1A¹1B</td> </tr> <tr> <td>" " 6BA</td> <td>Tag # ZS-AZIK4-2A</td> <td>" ZS-AY2K4-1A¹1B</td> </tr> <tr> <td>" " 7AA</td> <td>Tag # ZS-AZIK4-2A</td> <td>" ZS-AZIK4-1A¹1B</td> </tr> <tr> <td>" " 7BA</td> <td>Tag # ZS-AZIK4-1A</td> <td>" ZS-AZ2K4-1A¹1B</td> </tr> <tr> <td>" " 8AA</td> <td>Tag # YS-AZEP2-1 (stare 7)</td> <td>" YS-AZ^{ATI}1M1</td> </tr> <tr> <td>" " 8BA</td> <td>Tag # YS-AZEP2-2 (stare 7)</td> <td>" YS-AZ^{ATI}1M2</td> </tr> <tr> <td>" K3-2AA</td> <td></td> <td>" YS-AZ^(1,2)1M2 - stare 15</td> </tr> <tr> <td>" " 2BA</td> <td></td> <td></td> </tr> </table>			Tag # ZS702K2-6AA	Tag # ZS-AZIK4-1A	Tag # ZS-AYIK4-1A ¹ 1B	" " 6BA	Tag # ZS-AZIK4-2A	" ZS-AY2K4-1A ¹ 1B	" " 7AA	Tag # ZS-AZIK4-2A	" ZS-AZIK4-1A ¹ 1B	" " 7BA	Tag # ZS-AZIK4-1A	" ZS-AZ2K4-1A ¹ 1B	" " 8AA	Tag # YS-AZEP2-1 (stare 7)	" YS-AZ ^{ATI} 1M1	" " 8BA	Tag # YS-AZEP2-2 (stare 7)	" YS-AZ ^{ATI} 1M2	" K3-2AA		" YS-AZ ^(1,2) 1M2 - stare 15	" " 2BA		
Tag # ZS702K2-6AA	Tag # ZS-AZIK4-1A	Tag # ZS-AYIK4-1A ¹ 1B																								
" " 6BA	Tag # ZS-AZIK4-2A	" ZS-AY2K4-1A ¹ 1B																								
" " 7AA	Tag # ZS-AZIK4-2A	" ZS-AZIK4-1A ¹ 1B																								
" " 7BA	Tag # ZS-AZIK4-1A	" ZS-AZ2K4-1A ¹ 1B																								
" " 8AA	Tag # YS-AZEP2-1 (stare 7)	" YS-AZ ^{ATI} 1M1																								
" " 8BA	Tag # YS-AZEP2-2 (stare 7)	" YS-AZ ^{ATI} 1M2																								
" K3-2AA		" YS-AZ ^(1,2) 1M2 - stare 15																								
" " 2BA																										
ORIGINATOR: B.G. Finch / L. Hill	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE																									
ORG: B.D.F. DATE: 12/15/95	L.F. Hill 12/15/95 PIC DATE																									
DISPOSITION: <p>The above state descriptors must be corrected. A general review & revision of state descriptor text names will be conducted.</p>																										
DISPOSITION AND RETEST REQUIREMENTS BY:	DISPOSITION ACTIONS COMPLETE:																									
_____ DATE	Verified _____ By: _____ DATE																									
QAE CONCURRENCE WITH DISPOSITION (if required):	RETEST COMPLETE:																									
_____ DATE	_____ PIC DATE																									

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:		TEST NAME: <i>Graphic Screens</i>	T.E. NUMBER: <i>#4</i>
DESCRIPTION OF PROBLEM: VD state descriptors incorrect in database & used on graphic such that the Handswitcher show the wrong labels: Problem occurrence: tags: HS - $\begin{pmatrix} A11 \\ A12 \\ A21 \\ A22 \end{pmatrix}$ - EWP-18 Other state state descriptors are not clear - for example TRUE/FALSE when ON/OFF or NORMAL/FAIL would be much clearer.			
ORIGINATOR: <i>L. Hill</i> 12/21/95 ORG: _____ DATE: _____		IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE <i>B.D. Finch</i> 12/21/95 PIC _____ DATE _____	
DISPOSITION: The handwritten descriptors must be corrected. A general review & revision will be made of all state descriptors.			
DISPOSITION AND RETEST REQUIREMENTS BY: _____ DATE _____		DISPOSITION ACTIONS COMPLETE: Verified _____ By: _____ DATE _____	
QAE CONCURRENCE WITH DISPOSITION (if required): _____ DATE _____		RETEST COMPLETE: _____ PIC _____ DATE _____	

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION: 5.9	TEST NAME: Tag Descriptions	T.E. NUMBER: 5
DESCRIPTION OF PROBLEM: <p>Tag descriptions (as shown on groups) are not as defined in database in all cases. In many cases there is an extra space & letter at the end of the description. Ref. RAH-AZ-K19-1 is an example. Also, leading blanks & are not included (as specified) so that the line spacing is not as planned. A further problem is that many of the descriptions are either wrong or inadequately describe the Tag. These descriptors are used on plans & must clearly describe the channel.</p>		
ORIGINATOR: LJ Hill 12/29/95 ORG: _____ DATE: _____	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE LJ Hill 12/29/95 PIC _____ DATE: _____	
DISPOSITION: <p>MTCOA found & corrected a flaw which was resulting in extra trailing characters in the field. Leading blanks are still missing. WHC will combine this problem with a general review & revision of state descriptors.</p>		
DISPOSITION AND RETEST REQUIREMENTS BY: _____ DATE _____	DISPOSITION ACTIONS COMPLETE: Verified _____ By: _____ DATE _____	
QAE CONCURRENCE WITH DISPOSITION (if required): _____ DATE _____	RETEST COMPLETE: _____ PIC _____ DATE _____	

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION: 5.8	TEST NAME: Screen Verification	T.E. NUMBER: 6
DESCRIPTION OF PROBLEM: FIC-702-K3-3 (on P&ID) shows as a single controller, but is actually implemented in logic & on displays as two controllers, FIC-702-K3-3A & B. This makes makes two separate setpoints for the operator to control & may not be what was originally intended.		
ORIGINATOR: L. F. Hill 1/2/95	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE	
ORG: _____ DATE: _____	PIC L. F. Hill 1/2/95	DATE _____
DISPOSITION: KEH will revise P&ID to show dual controller.		
DISPOSITION AND RETEST REQUIREMENTS BY: _____ DATE _____		DISPOSITION ACTIONS COMPLETE: Verified _____ By: _____ DATE _____
QAE CONCURRENCE WITH DISPOSITION (if required): _____ DATE _____		RETEST COMPLETE: _____ PIC _____ DATE _____

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TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

Y299 (typical)

TEST NAME:

T.E. NUMBER:

7

DESCRIPTION OF PROBLEM:

The ~~CONFIG/HARD~~ CONFIG/CANCEL control does not affect the sequencer operation. The sequencer can be started & operated w/o selecting CONFIG

ORIGINATOR:

L. Hill 1/5/96

ORG:

DATE:

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

L. Hill 1/5/96

PIC

DATE

DISPOSITION:

Issue reviewed with KEH. Logics work as designed.

DISPOSITION AND RETEST REQUIREMENTS BY:

L. Hill

DATE

DISPOSITION ACTIONS COMPLETE:

Verified

By:

DATE

QAE CONCURRENCE WITH DISPOSITION (if required):

RETEST COMPLETE:

DATE

PIC

DATE

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

TEST NAME:

T.E. NUMBER:

MAERO Logic

8

DESCRIPTION OF PROBLEM:

SEQUENCER Time Delays interact with starter Time delays. Actually the sequencer INTLK inputs behave like a SEAL input, except they start out True & go false only if the starter goes to alarm after its internal (10sec) time delay. With current times, have a race condition

ORIGINATOR:

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

L. Hill 1/6/96

L. Hill 1/6/96

ORG:

DATE:

PIC

DATE

DISPOSITION:

Issue reviewed with KET, who will assess whether a design change is needed.

DISPOSITION AND RETEST REQUIREMENTS BY:

DISPOSITION ACTIONS COMPLETE:

DATE

Verified

By:

DATE

QAE CONCURRENCE WITH DISPOSITION (if required):

RETEST COMPLETE:

DATE

PIC

DATE

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TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION: LOGIC Y912B	TEST NAME: LOGIC Y912B	T.E. NUMBER: 9
DESCRIPTION OF PROBLEM: TI-702F2-1 PRIORITY 2		
<p>1. AI ALARM ^VHI HI @ 110°F SHOULD BE YELLOW ON RECENT ALARMS BUT IT WAS WHITE.</p> <p>2. IN GROUP 171 FAULT FOR 6A & 6B DAMPER STATUS SHOULD BE YELLOW NOT WHITE.</p> <p>3. ON DISPLAY GRAPHIC 22 (BOY TEMP) RELIEF VALVES SHOULD BE YELLOW IN EVENT NOT WHITE.</p>		
ORIGINATOR: D. Loken 1/9/96	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE	
ORG: D. Loken DATE: 1/9/96	PIC D. Loken DATE 1/9/96	
DISPOSITION: MICON to fix problem.		
DISPOSITION AND RETEST REQUIREMENTS BY:		DISPOSITION ACTIONS COMPLETE:
<hr/> DATE		Verified <hr/> By: <hr/> DATE
QAE CONCURRENCE WITH DISPOSITION (if required):		RETEST COMPLETE:
<hr/> DATE		<hr/> PIC <hr/> DATE

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TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:	TEST NAME: <i>Alarms</i>	TE NUMBER: <i>10</i>
DESCRIPTION OF PROBLEM: <i>Re PI-AEZ-K1-18 - h25 LL, L, H, & HH alarms</i> <i>After getting one - say L, if then change value to</i> <i>where should get LL, may not get it & vice versa</i> <i>Similar for H & HH p21.</i> <i>NOTE HH SHOULD BE YELLOW IT WAS</i> <i>WHITE ON Y995 FOR ALARMS</i> <i>POI 702K331A, -1B</i> <i>PD1702-K34-1A, -1B</i>		
ORIGINATOR: <i>L. Hill</i>	DATE: <i>1/12/96</i>	IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE <i>L. Hill</i> <i>1/12/96</i> PIC DATE
DISPOSITION: <i>MICOM to fix problem</i>		
DISPOSITION AND RETEST REQUIREMENTS BY:		DISPOSITION ACTIONS COMPLETE:
_____ DATE		Verified _____ By: _____ DATE
QAE CONCURRENCE WITH DISPOSITION (if required):		RETEST COMPLETE:
_____ DATE		_____ PIC DATE

CONTROLLED COPY

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

Screens

TEST NAME:

T.E. NUMBER:

11

DESCRIPTION OF PROBLEM:

Fieldbus Main. brings screens needs to be updated
to reflect Fieldbus Logic changes

ORIGINATOR:

L. Hill

1/13/96

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

L. Hill

1/13/96

ORG:

DATE:

PIC

DATE

DISPOSITION:

WHC to revise screen - probably merging it with
the Keep-alive screen.

DISPOSITION AND RETEST REQUIREMENTS BY:

DISPOSITION ACTIONS COMPLETE:

Verified

By:

DATE

QAE CONCURRENCE WITH DISPOSITION (if required):

RETEST COMPLETE:

DATE

PIC

DATE

CONTROLLED COPY

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:		TEST NAME: <i>Totalizer</i>	T.E. NUMBER: <i>12</i>
DESCRIPTION OF PROBLEM: <i>All totalizer have a 2 auto rollover after a very long count time. These were not checked in most cases, because we didn't have the time to wait.</i>			
ORIGINATOR: <i>L J Hill</i>		IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE	
ORG: <i>L J Hill</i>	DATE: <i>1/13/96</i>	PIC: <i>L J Hill</i>	DATE: <i>1/13/96</i>
DISPOSITION: <i>Time delays before reset are in some cases quite long - even over 2 months. May be able to check some during pre-op; others during operation</i>			
DISPOSITION AND RETEST REQUIREMENTS BY: <i>L J Hill</i>		DISPOSITION ACTIONS COMPLETE:	
DATE: _____		Verified _____ By: _____ DATE: _____	
QAE CONCURRENCE WITH DISPOSITION (if required): _____		RETEST COMPLETE: _____	
DATE: _____		PIC: _____ DATE: _____	

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

Y097C

TEST NAME:

TMAC's

T.E. NUMBER:

13

DESCRIPTION OF PROBLEM:

D.O. 31-28 (DOES NOT WORK)

1. ^{OUTPUT} LIGHT DOES NOT COME ON.
2. CONTACT DOES NOT SWITCH STATE.

ORIGINATOR:

Doug Laker 1/13/96

ORG: DATE:

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

Doug Laker 1/13/96

PIC DATE

DISPOSITION:

MICON to repair.

DISPOSITION AND RETEST REQUIREMENTS BY:

L. Laker

DATE

DISPOSITION ACTIONS COMPLETE:

Verified

By:

DATE

QAE CONCURRENCE WITH DISPOSITION (if required):

DATE

RETEST COMPLETE:

PIC

DATE

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:

TEST NAME:

T.E. NUMBER:

Post Review of screens

Screens

14

DESCRIPTION OF PROBLEM:

A number of screen items are not "highlighted" or signed off as having been verified. Some were probably checked & not signed off - others were probably missed when that device was being checked, because many items are shown on multiple screens. Specifics on incomplete items for each screen have been noted at the top of each screen sign off page.

ORIGINATOR:

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☒ CONTINUE

L. Hill 1/16/96

L. Hill 1/16/96
PIC DATE

ORG: DATE:

DISPOSITION:

Finish testing the screens during CGA and/or Prep testing.

DISPOSITION AND RETEST REQUIREMENTS BY:

DISPOSITION ACTIONS COMPLETE:

L. Hill

DATE

Verified

By:

DATE

QA CONCURRENCE WITH DISPOSITION (if required):

RETEST COMPLETE:

DATE

PIC

DATE

ATTACHMENT "B"

CALIBRATION TABLES FOR THE
"BECKMAN DATA SIMULATOR"

BECKMAN DATA SIMULATOR 4-20ma OUTPUT 12-1-95

CHANN #	ZERO READING	FULL SCALE
1	3.99	19.82
2	4.00	19.80
3	3.99	19.82
4	4.00	19.82
5	4.01	19.81
6	4.01	19.81
7	0/5	
8	0/5	
9	3.99	20.1
10	4.00	20.1
11	3.99	20.1
12	4.00	20.0
13	4.01	20.0
14	4.01	20.1
15	4.01	20.1
16	4.01	20.1

TEST EQUIPMENT USED
 INPUT, DIAL-A-SOURCE DAS86
 ma METER, FLUKE 8024B

ID # 10S0025CE
 752-45-08-001 4-28-96

CAL EXPIRES
 NON DATA

DATA TAKEN BY NJ LEECH ENGINEERING TESTING LABORATORY WHC

Handwritten signature

BECKMAN DATA SIMULATOR 4-20ma INPUT 12-1-95

CHANN #	ZERO READING 4mA	FULL SCALE 20mA
1	0	100
2	0	100
3	0	100
4	0	100
5	0	100
6	0	100
7	O/S	
8	O/S	
9	0	100
10	0	100
11	0	100
12	24 0	100
13	0	100
14	0	100
15	0	100
16	0	100

TEST EQUIPMENT USED
 INPUT , DIAL-A-SOURCE DAS86
 ma METER , FLUKE 8024B

ID # 10S0025CE
 752-45-08-001
 CAL EXPIRES
 NON DATA
 4-28-96

DATA TAKEN BY NJ LEECH ENGINEERING TESTING LABORATORY WHC

ATTACHMENT "C"

MASTER AI (ANALOG INPUT)
POINT LIST REPORT

MASTER AI POINT LIST REPORT

Tag Name	Long Description	Description	Units	Range-L	Range-H	Alr	Cnt	Ch	PID	Tag
FI_702_K3_1	BV STK MONITOR SAMPLE FLOW	BvStk MonFlow	SCFM	0.00	2.00	1	36	20	H-2-131081, SH 1	FI-702K3-1
FI_702_K3_2	BV STK RECORD SAMPLE FLOW	BvStk RecFlow	SCFM	0.00	2.00	1	36	21	H-2-131081, SH 1	FI-702K3-2
FI_AY1_EMR_1	4" EWR-AY1305-M4 FLOW	EwrHdr Flow	GPM	0.00	300.00	1	46	10	H-2-131067, SH 1	FI-AY1EWR-1
FI_AY1_K1_1	TK-AY-101 AIR INLET FLOW	TkAirIn Flow	SCFM	0.00	600.00	1	46	1	H-2-131075, SH 1	FI-AY1K1-1
FI_AY2_EMR_1	4" EWR-AY2305-M4 FLOW	EwrHdr Flow	GPM	0.00	300.00	1	46	24	H-2-131068, SH 1	FI-AY2EWR-1
FI_AY2_K1_1	TK-AY-102 AIR INLET FLOW	TkAirIn Flow	SCFM	0.00	600.00	1	46	15	H-2-131075, SH 1	FI-AY2K1-1
FI_AZ1_EMR_1	4" EWR-AZ1305-M4 FLOW	EwrHdr Flow	GPM	0.00	400.00	1	51	10	H-2-131069, SH 1	FI-AZ1EWR-1
FI_AZ1_K1_1	TK-AZ-101 AIR INLET FLOW	TkAirIn Flow	SCFM	0.00	600.00	1	51	1	H-2-131075, SH 2	FI-AZ1K1-1
FI_AZ2_EMR_1	4" EWR-AZ2305-M4 FLOW	EwrHdr Flow	GPM	0.00	300.00	1	51	24	H-2-131070, SH 1	FI-AZ2EWR-1
FI_AZ2_K1_1	TK-AZ-102 AIR INLET FLOW	TkAirIn Flow	SCFM	0.00	600.00	1	51	15	H-2-131075, SH 2	FI-AZ2K1-1
FI_AZ_CWR_1	2" CWR-AZ205-M4 FLOW	Chiller Flow	GPM	0.00	150.00	1	24	15	H-2-131071, SH 1	FI-AZCWR-1
FI_AZ_K1_1	PV STACK MONITOR SAMPLE FLOW	PvStac MonFlow	SCFM	0.00	2.00	1	14	5	H-2-131078, SH 1	FI-AZK1-1
FI_AZ_K1_2	PV STACK RECORD SAMPLE FLOW	PvStac RecFlow	SCFM	0.00	2.00	1	14	6	H-2-131078, SH 1	FI-AZK1-2
FI_AZ_K1_3	PV STACK FLOW	PvStac Flow	SCFM	0.00	1200.00	1	14	7	H-2-131078, SH 1	FI-AZK1-3
FI_AZ_PC_1	1" PC-AZ503-M27 FLOW	SealPot Flow	GPM	0.00	30.00	0	24	25	H-2-131072, SH 1	FI-AZPC-1
FI_AZ_RW_1	2" RW-AZ401-M5 FLOW	RamWater Flow	GPM	0.00	50.00	0	24	12	H-2-131074, SH 1	FI-AZRW-1
FI_702_K3_3	BV STACK FLOW	BvStk Flow	SCFM	0.00	1100.00	1	36	22	H-2-131081, SH 1	FI-702K3-3
FI_AY1_K1_2	TK-AY-101 PV AIR FLOW	TankVent Flow	SCFM	0.00	600.00	1	13	1	H-2-131075, SH 1	FI-AY1K1-2
FI_AY2_K1_2	TK-AY-102 PV AIR FLOW	TankVent Flow	SCFM	0.00	600.00	1	13	6	H-2-131075, SH 1	FI-AY2K1-2
FI_AZ1_K1_2	TK-AZ-101 PV AIR FLOW	TankVent Flow	SCFM	0.00	600.00	1	2	1	H-2-131075, SH 2	FI-AZ1K1-2
FI_AZ2_K1_2	TK-AZ-102 PV AIR FLOW	TankVent Flow	SCFM	0.00	600.00	1	2	6	H-2-131075, SH 2	FI-AZ2K1-2
II_702_K35_1A	AZ702-K3-5-1A CURRENT	BvFanA Current	AMP	0.00	10.00	0	36	15	H-2-131073, SH 2	II-702K35-1A
II_702_K35_1B	AZ702-K3-5-1B CURRENT	BvFanB Current	AMP	0.00	10.00	0	36	16	H-2-131073, SH 2	II-702K35-1B
II_AY1_EWP_1A	AY101-EW-P-1A CURRENT	EwPump1ACurrent	AMP	0.00	20.00	0	46	11	H-2-131067, SH 1	II-AY1EWP-1A
II_AY1_EWP_1B	AY101-EW-P-1B CURRENT	EwPump1BCurrent	AMP	0.00	20.00	0	46	12	H-2-131067, SH 1	II-AY1EWP-1B
II_AY1_K45_1	AY101-K4-5-1 CURRENT	RrcrFan Current	AMP	0.00	10.00	0	46	6	H-2-131062, SH 1	II-AY1K45-1
II_AY2_EWP_1A	AY102-EW-P-1A CURRENT	EwPump1ACurrent	AMP	0.00	20.00	0	46	25	H-2-131068, SH 1	II-AY2EWP-1A
II_AY2_EWP_1B	AY102-EW-P-1B CURRENT	EwPump1BCurrent	AMP	0.00	20.00	0	46	26	H-2-131068, SH 1	II-AY2EWP-1B
II_AY2_K45_1	AY102-K4-5-1 CURRENT	RrcrFan Current	AMP	0.00	10.00	0	46	20	H-2-131063, SH 1	II-AY2K45-1

Tag name	Long Description	Descr	Units	Range Lo	Range Hi	Atm	Ctrl	Ch	PID	Tag
11_AZ1_EWP_1A	AZ101-EW-P-1A CURRENT	EwPump1ACurrent	AMP	0.00	50.00	0	51	11	H-2-131069, SH 1	11-AZ1EWP-1A
11_AZ1_EWP_1B	AZ101-EW-P-1B CURRENT	EwPump1BCurrent	AMP	0.00	50.00	0	51	12	H-2-131069, SH 1	11-AZ1EWP-1B
11_AZ1_K45_1	AZ101-K4-5-1 CURRENT	RrcrFan Current	AMP	0.00	10.00	0	51	6	H-2-131064, SH 1	11-AZ1K45-1
11_AZ2_EWP_1A	AZ102-EW-P-1A CURRENT	EwPump1ACurrent	AMP	0.00	20.00	0	51	25	H-2-131070, SH 1	11-AZ2EWP-1A
11_AZ2_EWP_1B	AZ102-EW-P-1B CURRENT	EwPump1BCurrent	AMP	0.00	20.00	0	51	26	H-2-131070, SH 1	11-AZ2EWP-1B
11_AZ2_K45_1	AZ102-K4-5-1 CURRENT	RrcrFan Current	AMP	0.00	10.00	0	51	20	H-2-131065, SH 1	11-AZ2K45-1
11_AZ_CWP_1A	AZ-CW-P-1A CURRENT	CwPump1ACurrent	AMP	0.00	10.00	1	24	16	H-2-131071, SH 1	11-AZCWP-1A
11_AZ_CWP_1B	AZ-CW-P-1B CURRENT	CwPump1BCurrent	AMP	0.00	10.00	1	24	17	H-2-131071, SH 1	11-AZCWP-1B
11_AZ_K15_1A	AZ-K1-5-1A CURRENT	PvFan1A Current	AMPS	0.00	30.00	1	3	15	H-2-131076, SH 1	11-AZK15-1A
11_AZ_K15_1B	AZ-K1-5-1B CURRENT	PvFan1B Current	AMPS	0.00	30.00	1	14	15	H-2-131076, SH 1	11-AZK15-1B
PDI_702_K2_1	STK MON ROOM DELTA P	StkMonRm Dp	IN WC	0.00	1.00	0	35	1	H-2-131073, SH 1	PDI-702K2-1
PDI_702_K24_1	AZ702-K2-4-1 DELTA P	K3Hepa1 Dp	IN WC	0.00	1.00	0	35	10	H-2-131073, SH 1	PDI-702K24-1
PDI_702_K24_2	AZ702-K2-4-2 DELTA P	K3Hepa2 Dp	IN WC	0.00	1.00	0	35	11	H-2-131073, SH 1	PDI-702K24-2
PDI_702_K33_1A	AZ702-K3-3-1A DELTA P	BvFltr1A Dp	IN WC	0.00	2.00	1	36	10	H-2-131073, SH 2	PDI-702K33-1A
PDI_702_K33_1B	AZ702-K3-3-1B DELTA P	BvFltr1B Dp	IN WC	0.00	2.00	1	36	11	H-2-131073, SH 2	PDI-702K33-1B
PDI_702_K34_1A	AZ702-K3-4-1A DELTA P	BvHepa1A Dp	IN WC	0.00	6.00	1	36	12	H-2-131073, SH 2	PDI-702K34-1A
PDI_702_K34_1B	AZ702-K3-4-1B DELTA P	BvHepa1B Dp	IN WC	0.00	6.00	1	36	13	H-2-131073, SH 2	PDI-702K34-1B
PDI_AY1_K45_1	AY101-K4-5-1 DELTA P	RrcrFan Dp	IN WC	0.00	25.00	1	46	7	H-2-131062, SH 1	PDI-AY1K45-1
PDI_AY1_K48_1	AY101-K4-8-1 DELTA P	RrcrCdsr Dp	IN WC	0.00	20.00	1	46	8	H-2-131062, SH 1	PDI-AY1K48-1
PDI_AY2_K45_1	AY102-K4-5-1 DELTA P	RrcrFan Dp	IN WC	0.00	25.00	1	46	21	H-2-131063, SH 1	PDI-AY2K45-1
PDI_AY2_K48_1	AY102-K4-8-1 DELTA P	RrcrCdsr Dp	IN WC	0.00	20.00	1	46	22	H-2-131063, SH 1	PDI-AY2K48-1
PDI_AZ1_K45_1	AZ101-K4-5-1 DELTA P	RrcrFan Dp	IN WC	0.00	25.00	1	51	7	H-2-131064, SH 1	PDI-AZ1K45-1
PDI_AZ1_K48_1	AZ101-K4-8-1 DELTA P	RrcrCdsr Dp	IN WC	0.00	20.00	1	51	8	H-2-131064, SH 1	PDI-AZ1K48-1
PDI_AZ2_K45_1	AZ102-K4-5-1 DELTA P	RrcrFan Dp	IN WC	0.00	25.00	1	51	21	H-2-131065, SH 1	PDI-AZ2K45-1
PDI_AZ2_K48_1	AZ102-K4-8-1 DELTA P	RrcrCdsr Dp	IN WC	0.00	20.00	1	51	22	H-2-131065, SH 1	PDI-AZ2K48-1
PDI_AZ_K110_1A	AZ-K1-10-1A DELTA P	PvHega1A Dp	IN WC	0.00	5.00	1	3	12	H-2-131076, SH 1	PDI-AZK110-1A
PDI_AZ_K110_1B	AZ-K1-10-1B DELTA P	PvHega1B Dp	IN WC	0.00	5.00	1	14	12	H-2-131076, SH 1	PDI-AZK110-1B
PDI_AZ_K14_1A	AZ-K1-4-1A DELTA P	PvHepa1A Dp	IN WC	0.00	6.00	1	3	10	H-2-131076, SH 1	PDI-AZK14-1A
PDI_AZ_K14_1B	AZ-K1-4-1B DELTA P	PvHepa1B Dp	IN WC	0.00	6.00	1	14	10	H-2-131076, SH 1	PDI-AZK14-1B

Tag name	Long Description	Inst Descr	Units	Range Low	Range High	Alm	Cnt	Ch	P&T	Tag
PDI_AZ_K14_2A	AZ-K1-4-2A DELTA P	PvHepa2A Dp	IN WC	0.00	5.00	1	3	11	H-2-131076, SH 1	PDI-AZK14-2A
PDI_AZ_K14_2B	AZ-K1-4-2B DELTA P	PvHepa2B Dp	IN WC	0.00	5.00	1	14	11	H-2-131076, SH 1	PDI-AZK14-2B
PDI_AZ_K18_1	AZ-K1-8-1 VAPOR DELTA P	PvCdsr Dp	IN WC	0.00	20.00	1	2	10	H-2-131075, SH 3	PDI-AZK18-1
PDI_AZ_K19_1	AZ-K1-9-1 VAPOR DELTA P	Heme Dp	IN WC	0.00	10.00	1	13	10	H-2-131075, SH 3	PDI-AZK19-1
PDI_AZ_RWF_1	AZ-RW-F-1 DELTA P	RawWater Dp	PSID	0.00	10.00	1	24	10	H-2-131074, SH 1	PDI-AZRMF-1
PDI_702_K2_2	PV FLTR RM A DELTA P	E/iRmA Dp	IN WC	-1.00	0.00	0	35	2	H-2-131073, SH 1	PDIC-702K2-2
PDI_702_K2_3	PV FLTR RM B DELTA P	E/iRmB Dp	IN WC	-1.00	0.00	0	35	3	H-2-131073, SH 1	PDIC-702K2-3
PDI_702_K3_1	PV CELL DELTA P	Cell Dp	IN WC	-1.00	0.00	0	36	7	H-2-131073, SH 1	PDIC-702K3-1
PI_AY1_K1_2	TK-AY-101 PRESSURE	Tank Press	IN WC	-10.00	80.00	0	46	4	H-2-131075, SH 1	PI-AY1K1-2
PI_AY2_K1_2	TK-AY-102 PRESSURE	Tank Press	IN WC	-10.00	80.00	0	46	18	H-2-131075, SH 1	PI-AY2K1-2
PI_AZ1_K1_2	TK-AZ-101 PRESSURE	Tank Press	IN WC	-10.00	80.00	0	51	4	H-2-131075, SH 2	PI-AZ1K1-2
PI_AZ2_K1_2	TK-AZ-102 PRESSURE	Tank Press	IN WC	-10.00	80.00	0	51	18	H-2-131075, SH 2	PI-AZ2K1-2
PI_AZ__RW_1	2" RW-AZ401-M5 PRESSURE	RawWater Press	PSI	0.00	100.00	1	24	11	H-2-131074, SH 1	PI-AZRW-1
PI_AY1_K1_1	TK-AY-101 PRESSURE	Tank Press	IN WC	-6.00	4.00	1	46	3	H-2-131075, SH 1	PIC-AY1K1-1
PI_AY2_K1_1	TK-AY-102 PRESSURE	Tank Press	IN WC	-6.00	4.00	1	46	17	H-2-131075, SH 1	PIC-AY2K1-1
PI_AZ1_K1_1	TK-AZ-101 PRESSURE	Tank Press	IN WC	-6.00	4.00	1	51	3	H-2-131075, SH 2	PIC-AZ1K1-1
PI_AZ2_K1_1	TK-AZ-102 PRESSURE	Tank Press	IN WC	-6.00	4.00	1	51	17	H-2-131075, SH 2	PIC-AZ2K1-1
PI_AZ_K1_1A	10" V-AZ103-M9 PRESSURE	PvHdr1A Press	IN WC	-35.00	0.00	1	3	17	H-2-131076, SH 1	PIC-AZK1-1A
PI_AZ_K1_1B	10" V-AZ102-M9 PRESSURE	PvHdr1B Press	IN WC	-35.00	0.00	1	14	17	H-2-131076, SH 1	PIC-AZK1-1B
RI_702_K3_1	BV STACK RADIATION	BvStac Rad	aCi/L	.10	10000.00	0	36	23	H-2-131081, SH 1	RI-702K3-1
RI_AZ_K1_1	PV STACK RADIATION	PvStac Rad	pCi/L	.10	10000.00	0	14	8	H-2-131078, SH 1	RI-AZK1-1
RI_AZ_K19_1	AZ-K1-9-1 RADIATION	Heme Rad	R/Hr	0.00	100.00	0	24	5	H-2-131075, SH 3	RI-AZK19-1
SI_AZ_K15_1A	AZ-K1-5-1A SPEED	PvFan1A Speed	RPM	0.00	2000.00	0	3	16	H-2-131076, SH 1	SI-AZK15-1A
SI_AZ_K15_1B	AZ-K1-5-1B SPEED	PvFan1B Speed	RPM	0.00	2000.00	0	14	16	H-2-131076, SH 1	SI-AZK15-1B
TI_702_K2_1	STACK MONITOR ROOM TEMP	StkMonRm Temp	DEG F	-20.00	150.00	1	2	15	H-2-131077, SH 1	TI-702K2-1
TI_702_K2_2	E/I ROOM A TEMP	E/iRmA Temp	DEG F	-20.00	150.00	1	2	16	H-2-131077, SH 1	TI-702K2-2
TI_702_K2_3	E/I ROOM B TEMP	E/iRmB Temp	DEG F	-20.00	150.00	1	13	15	H-2-131077, SH 1	TI-702K2-3
TI_702_K2_4	PV FLTR ROOM A TEMP	FiltrRmA Temp	DEG F	-20.00	150.00	1	2	17	H-2-131077, SH 1	TI-702K2-4
TI_702_K2_5	PV FLTR ROOM B TEMP	FiltrRmB Temp	DEG F	-20.00	150.00	1	13	16	H-2-131077, SH 1	TI-702K2-5

Tagname	Long Description	Descr	Units	Range:Low	Range:Hi	AI	On:IP	On	PAID	Tag
TI_702_K3_1	BV STACK TEMP	BvStk Temp	DEG F	0.00	100.00	0	36	24	H-2-131081, SH 1	TI-702K3-1
TI_AY1_EWR_1	AY101-K4-8-1 COOLANT OUTLET TEMP	RrcrCdsrEwrTemp	DEG F	0.00	150.00	0	45	6	H-2-131062, SH 1	TI-AY1EWR-1
TI_AY1_EWS_1	AY101-K4-8-1 COOLANT INLET TEMP	RrcrCdsrEwsTemp	DEG F	0.00	150.00	0	45	7	H-2-131062, SH 1	TI-AY1EWS-1
TI_AY1_K48_1A	AY101-K4-8-1 VAPOR INLET TEMP	RrcrCdsrVapTempA	DEG F	0.00	200.00	0	45	1	H-2-131062, SH 1	TI-AY1K48-1A
TI_AY1_K48_1B	AY101-K4-8-1 VAPOR OUTLET TEMP	RrcrCdsrVapTempB	DEG F	0.00	200.00	0	45	2	H-2-131062, SH 1	TI-AY1K48-1B
TI_AY2_EWR_1	AY102-K4-8-1 COOLANT OUTLET TEMP	RrcrCdsrEwrTemp	DEG F	0.00	150.00	0	45	20	H-2-131063, SH 1	TI-AY2EWR-1
TI_AY2_EWS_1	AY102-K4-8-1 COOLANT INLET TEMP	RrcrCdsrEwsTemp	DEG F	0.00	150.00	0	45	21	H-2-131063, SH 1	TI-AY2EWS-1
TI_AY2_K48_1A	AY102-K4-8-1 VAPOR INLET TEMP	RrcrCdsrVapTempA	DEG F	0.00	200.00	0	45	15	H-2-131063, SH 1	TI-AY2K48-1A
TI_AY2_K48_1B	AY102-K4-8-1 VAPOR OUTLET TEMP	RrcrCdsrVapTempB	DEG F	0.00	200.00	0	45	16	H-2-131063, SH 1	TI-AY2K48-1B
TI_AZ1_EWR_1	AZ101-K4-8-1 COOLANT OUTLET TEMP	RrcrCdsrEwrTemp	DEG F	0.00	150.00	0	50	6	H-2-131064, SH 1	TI-AZ1EWR-1
TI_AZ1_EWS_1	AZ101-K4-8-1 COOLANT INLET TEMP	RrcrCdsrEwsTemp	DEG F	0.00	150.00	0	50	7	H-2-131064, SH 1	TI-AZ1EWS-1
TI_AZ1_K48_1A	AZ101-K4-8-1 VAPOR INLET TEMP	RrcrCdsrVapTempA	DEG F	0.00	200.00	0	50	1	H-2-131064, SH 1	TI-AZ1K48-1A
TI_AZ1_K48_1B	AZ101-K4-8-1 VAPOR OUTLET TEMP	RrcrCdsrVapTempB	DEG F	0.00	200.00	0	50	2	H-2-131064, SH 1	TI-AZ1K48-1B
TI_AZ2_EWR_1	AZ102-K4-8-1 COOLANT OUTLET TEMP	RrcrCdsrEwrTemp	DEG F	0.00	150.00	0	50	20	H-2-131065, SH 1	TI-AZ2EWR-1
TI_AZ2_EWS_1	AZ102-K4-8-1 COOLANT INLET TEMP	RrcrCdsrEwsTemp	DEG F	0.00	150.00	0	50	21	H-2-131065, SH 1	TI-AZ2EWS-1
TI_AZ2_K48_1A	AZ102-K4-8-1 VAPOR INLET TEMP	RrcrCdsrVapTempA	DEG F	0.00	200.00	0	50	15	H-2-131065, SH 1	TI-AZ2K48-1A
TI_AZ2_K48_1B	AZ102-K4-8-1 VAPOR OUTLET TEMP	RrcrCdsrVapTempB	DEG F	0.00	200.00	0	50	16	H-2-131065, SH 1	TI-AZ2K48-1B
TI_AZ_CWR_1	3" CWR-AZ205-M4 TEMP	CwrHdr Temp	F	0.00	100.00	0	24	18	H-2-131071, SH 1	TI-AZCWR-1
TI_AZ_CWS_1	3" CWS-AZ203-M4 TEMP	CwsHdr Temp	F	0.00	100.00	0	24	19	H-2-131071, SH 1	TI-AZCWS-1
TI_AZ_K12_3	PV STACK TEMP	PvStk Temp	DEG F	0.00	200.00	0	14	9	H-2-131078, SH 1	TI-AZK12-3
TI_AZ_K12_1A	AZ-K1-2-1A INLET TEMP	PvHtr1A Temp	DEG F	0.00	250.00	1	3	1	H-2-131076, SH 1	TI-AZK12-1A
TI_AZ_K12_1B	AZ-K1-2-1B INLET TEMP	PvHtr1B Temp	DEG F	0.00	250.00	1	14	1	H-2-131076, SH 1	TI-AZK12-1B
TI_AZ_K12_2A	AZ-K1-2-1A OUTLET TEMP	PvHtr1A Temp	DEG F	0.00	250.00	1	3	2	H-2-131076, SH 1	TI-AZK12-2A
TI_AZ_K12_2B	AZ-K1-2-1B OUTLET TEMP	PvHtr1B Temp	DEG F	0.00	250.00	1	14	2	H-2-131076, SH 1	TI-AZK12-2B
TI_AZ_K12_3A	AZ-K1-1A OUTLET TEMP	PvHtr1A Temp	DEG F	0.00	250.00	1	3	3	H-2-131076, SH 1	TI-AZK12-3A
TI_AZ_K12_3B	AZ-K1-1B OUTLET TEMP	PvHtr1B Temp	DEG F	0.00	250.00	1	14	3	H-2-131076, SH 1	TI-AZK12-3B
TI_AZ_K18_1A	AZ-K1-8-1 VAPOR INLET TEMP	PvCdsr VapTempA	DEG F	0.00	150.00	0	24	1	H-2-131075, SH 3	TI-AZK18-1A
TI_AZ_K18_1B	AZ-K1-8-1 VAPOR OUTLET TEMP	PvCdsr VapTempB	DEG F	0.00	100.00	0	24	2	H-2-131075, SH 3	TI-AZK18-1B
ZI_702_K24_1	HK-AZ702K204-1 POSITION	HepaDmprPosition	PERCENT	0.00	100.00	0	35	12	H-2-131073, SH 1	ZI-702K24-1

Tag Name	Long Description	Desc	Units	Range: Lo	Range: H	Alm	Cnt1	Cnt2	P&ID	Tag
ZI_702_K24_2	MK-AZ702K204-2 POSITION	HepaDmprPosition	PERCENT	0.00	100.00	0	35	13	H-2-131073, SH 1	ZI-702K24-2
ZI_702_K3_1	MK-AZ702K3-1 POSITION	CellDmprPosition	PERCENT	0.00	100.00	0	36	8	H-2-131073, SH 1	ZI-702K3-1
ZI_AY1_K1_1	MK-AY101K1-1 POSITION	InDmpr Position	PERCENT	0.00	100.00	0	46	5	H-2-131075, SH 1	ZI-AY1K1-1
ZI_AY1_K1_2	MK-AY101K1-2 POSITION	OutDmpr Position	PERCENT	0.00	100.00	0	13	2	H-2-131075, SH 1	ZI-AY1K1-2
ZI_AY2_K1_1	MK-AY102K1-1 POSITION	InDmpr Position	PERCENT	0.00	100.00	0	46	19	H-2-131075, SH 1	ZI-AY2K1-1
ZI_AY2_K1_2	MK-AY102K1-2 POSITION	OutDmpr Position	PERCENT	0.00	100.00	0	13	7	H-2-131075, SH 1	ZI-AY2K1-2
ZI_AZ1_K1_1	MK-AZ101K1-1 POSITION	InDmpr Position	PERCENT	0.00	100.00	0	51	5	H-2-131075, SH 2	ZI-AZ1K1-1
ZI_AZ1_K1_2	MK-AZ101K1-2 POSITION	OutDmpr Position	PERCENT	0.00	100.00	0	2	2	H-2-131075, SH 2	ZI-AZ1K1-2
ZI_AZ2_K1_1	MK-AZ102K1-1 POSITION	InDmpr Position	PERCENT	0.00	100.00	0	51	19	H-2-131075, SH 2	ZI-AZ2K1-1
ZI_AZ2_K1_2	MK-AZ102K1-2 POSITION	OutDmpr Position	PERCENT	0.00	100.00	0	2	7	H-2-131075, SH 2	ZI-AZ2K1-2

ATTACHMENT "D"

MASTER AO (ANALOG OUTPUT)
POINT LIST REPORT

Tag Name	Long Description	Desc	Range Lo	Range Hi	Cnt L	Cnt H	PID	Tag
FC_702_K3_3A	BV STACK FLOW	BvFanA Flow	0.00	100.00	36	29	H-2-131081, SH 1	FIC-702K3-3
FC_702_K3_3B	BV STACK FLOW	BvFanB Flow	0.00	100.00	36	30	H-2-131081, SH 1	FIC-702K3-3
FC_AY1_K1_2	TK-AY-101 PV AIR FLOW VALVE	TankVent Flow	0.00	100.00	13	27	H-2-131075, SH 1	FIC-AY1K1-2
FC_AY2_K1_2	TK-AY-102 PV AIR FLOW VALVE	TankVent Flow	0.00	100.00	13	28	H-2-131075, SH 1	FIC-AY2K1-2
FC_AZ1_K1_2	TK-AZ-101 PV AIR FLOW VALVE	TankVent Flow	0.00	100.00	2	27	H-2-131075, SH 2	FIC-AZ1K1-2
FC_AZ2_K1_2	TK-AZ-102 PV AIR FLOW VALVE	TankVent Flow	0.00	100.00	2	28	H-2-131075, SH 2	FIC-AZ2K1-2
PC_AY1_K1_1	TK-AY-101 PRESSURE	TkAirIn Press	0.00	100.00	46	27	H-2-131075, SH 1	PIC-AY1K1-1
PC_AY2_K1_1	TK-AY-102 PRESSURE	TkAirIn Press	0.00	100.00	46	29	H-2-131075, SH 1	PIC-AY2K1-1
PC_AZ1_K1_1	TK-AZ-101 PRESSURE	TkAirIn Press	0.00	100.00	51	27	H-2-131075, SH 2	PIC-AZ1K1-1
PC_AZ2_K1_1	TK-AZ-102 PRESSURE	TkAirIn Press	0.00	100.00	51	29	H-2-131075, SH 2	PIC-AZ2K1-1
PC_AZ_K1_1A	10" V-AZ103-M9 PRESSURE	PvHdr1A Press	0.00	100.00	3	30	H-2-131076, SH 1	PIC-AZK1-1A
PC_AZ_K1_1B	10" V-AZ102-M9 PRESSURE	PvHdr1B Press	0.00	100.00	14	30	H-2-131076, SH 1	PIC-AZK1-1B
PDC_702_K2_2	PV FLTR RM A DELTA P	E/iRmA Dp	0.00	100.00	35	27	H-2-131073, SH 1	PDIC-702K2-2
PDC_702_K2_3	PV FLTR RM B DELTA P	E/iRmB Dp	0.00	100.00	35	28	H-2-131073, SH 1	PDIC-702K2-3
PDC_702_K3_1	PV CELL DELTA P	Cell Dp	0.00	100.00	36	27	H-2-131073, SH 1	PDIC-702K3-1
TDC_AZ_K12_1A	AZ-K1-2-1A DELTA T	PvHdr1A Temp	0.00	100.00	3	27	H-2-131076, SH 1	TDIC-AZK12-1A
TDC_AZ_K12_1B	AZ-K1-2-1B DELTA T	PvHdr1B Temp	0.00	100.00	14	27	H-2-131076, SH 1	TDIC-AZK12-1B

ATTACHMENT "E"

MASTER DI (DISCRETE INPUT)
POINT LIST REPORT

Tag Name	Long Description	Desc	Al	ar	m	Col	or	Detail	Detail	Unit	On	25th	Tag
FAL_AZ_K1_4	PV STACK TRIT SAMPLE FLOW LO	PvStac TritFlow	3	1	0	7	2	LOW	NORMAL	28	12	H-2-131078, SH 1	FAL-AZK1-4
JAX_1_PS1_1	LCU1 PRIMARY PWR SUPPLY FAIL	Lcu1 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	6	31		
JAX_1_PS2_1	LCU1 SEC PWR SUPPLY FAIL	Lcu1 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	7	31		
JAX_2_PS1_1	LCU2 PRIMARY PWR SUPPLY FAIL	Lcu2 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	17	31		
JAX_2_PS2_1	LCU2 SEC PWR SUPPLY FAIL	Lcu2 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	18	31		
JAX_3_PS1_1	LCU3 PRIMARY PWR SUPPLY FAIL	Lcu3 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	28	30		
JAX_3_PS2_1	LCU3 SEC PWR SUPPLY FAIL	Lcu3 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	28	31		
JAX_4_PS1_1	LCU4 PRIMARY PWR SUPPLY FAIL	Lcu4 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	39	30		
JAX_4_PS2_1	LCU4 SEC PWR SUPPLY FAIL	Lcu4 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	39	31		
JAX_5_PS1_1	RCU5 PRIMARY PWR SUPPLY FAIL	Rcu5 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	47	30		
JAX_5_PS2_1	RCU5 SEC PWR SUPPLY FAIL	Rcu5 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	47	31		
JAX_6_PS1_1	RCU6 PRIMARY PWR SUPPLY FAIL	Rcu6 PwrSup1	2	1	0	2	3	ON LINE	OFF LINE	52	30		
JAX_6_PS2_1	RCU6 SEC PWR SUPPLY FAIL	Rcu6 PwrSup2	2	1	0	2	3	ON LINE	OFF LINE	52	31		
LAH_AZ_PCSP_1	AZ-PC-SP-1 LEVEL HI	SealPot Level	2	1	0	3	2	HIGH	NORMAL	28	25	H-2-131072, SH 1	LAH-AZPCSP-1
LALL_AZ_EPRTK_1	AZ-EPR-TK-1 LEVEL LO-LO	FuelTk Level	2	0	1	2	3	NORMAL	LOW	7	7		
LAL_AY1_EWTK_1	AY101-EW-TK-1 LEVEL LO	EwTower Level	2	0	1	2	3	NORMAL	LOW	47	23	H-2-131067, SH 1	LAL-AY1EWTK-1
LAL_AY2_EWTK_1	AY102-EW-TK-1 LEVEL LO	EwTower Level	2	0	1	2	3	NORMAL	LOW	48	23	H-2-131068, SH 1	LAL-AY2EWTK-1
LAL_AZ1_EWTK_1	AZ101-EW-TK-1 LEVEL LO	EwTower Level	2	0	1	2	3	NORMAL	LOW	52	23	H-2-131069, SH 1	LAL-AZ1EWTK-1
LAL_AZ2_EWTK_1	AZ102-EW-TK-1 LEVEL LO	EwTower Level	2	0	1	2	3	NORMAL	LOW	53	23	H-2-131070, SH 1	LAL-AZ2EWTK-1
LAL_AZ_CWTK_1	AZ-CW-TK-1 LEVEL LO	CwTermTk Level	2	0	1	2	3	NORMAL	LOW	28	20	H-2-131071, SH 1	LAL-AZCWTK-1
LAL_AZ_EPRTK_1	AZ-EPR-TK-1 LEVEL LO	FuelTk Level	2	0	1	2	3	NORMAL	LOW	7	6		
LAL_AZ_PCSP_1	AZ-PC-SP-1 LEVEL LO	SealPot Level	2	1	0	3	2	LOW	NORMAL	28	26	H-2-131072, SH 1	LAL-AZPCSP-1
LDA_702_1	AZ-702 BLDG SUMP LEAK	Cell LeakDet	2	1	0	3	2	LEAK	NORMAL	28	9	H-2-131072, SH 1	LDA-702-1
LDA_702_2A	PV FLTR RM A LEAK	FltrRmA LeakDet	2	1	0	3	2	LEAK	NORMAL	28	10	H-2-131072, SH 1	LDA-702-2A

Tag Name	Long Description	Desc	Al	ar	m	Col	or	Desc	Desc	Chn	Ch	Part	Tag
LDA_702_2B	PV FLTR RM B LEAK	FltrRmB LeakDet	2	1	0	3	2	LEAK	NORMAL	28	11	H-2-131072, SH 1	LDA-702-2B
LDA_AY_1102_1	10" V-AY1102-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	28	5	H-2-131075, SH 3	LDA-AY1102-1
LDA_AY_1200_1	10" V-AY1200-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	47	5	H-2-131062, SH 1	LDA-AY1200-1
LDA_AY_1202_1	8" V-AY1202-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	47	6	H-2-131062, SH 1	LDA-AY1202-1
LDA_AY_2200_1	10" V-AY2200-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	48	5	H-2-131063, SH 1	LDA-AY2200-1
LDA_AY_2202_1	8" V-AY2202-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	48	6	H-2-131063, SH 1	LDA-AY2202-1
LDA_AY_401_1	241-AY-401 LEAK	RrcrBldgLeakDet	2	1	0	3	2	LEAK	NORMAL	47	7	H-2-131062, SH 1	LDA-AY401-1
LDA_AY_402_1	241-AY-402 LEAK	RrcrBldgLeakDet	2	1	0	3	2	LEAK	NORMAL	48	7	H-2-131063, SH 1	LDA-AY402-1
LDA_AZ_1200_1	10" V-AZ1200-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	52	5	H-2-131064, SH 1	LDA-AZ1200-1
LDA_AZ_1202_1	8" V-AZ1202-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	52	6	H-2-131064, SH 1	LDA-AZ1202-1
LDA_AZ_2102_1	10" V-AZ2102-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	28	6	H-2-131075, SH 3	LDA-AZ2102-1
LDA_AZ_2200_1	10" V-AZ2200-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	53	5	H-2-131065, SH 1	LDA-AZ2200-1
LDA_AZ_2202_1	8" V-AZ2202-M9 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	53	6	H-2-131065, SH 1	LDA-AZ2202-1
LDA_AZ_401_1	241-AZ-401 LEAK	RrcrBldgLeakDet	2	1	0	3	2	LEAK	NORMAL	52	7	H-2-131064, SH 1	LDA-AZ401-1
LDA_AZ_402_1	241-AZ-402 LEAK	RrcrBldgLeakDet	2	1	0	3	2	LEAK	NORMAL	53	7	H-2-131065, SH 1	LDA-AZ402-1
LDA_AZ_503_1	1" PC-AZ503-M27 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	28	8	H-2-131072, SH 1	LDA-AZ503-1
LDA_V0608_1	2" V-0608-M5 LEAK	PvLine LeakDet	2	1	0	3	2	LEAK	NORMAL	28	7	H-2-131075, SH 3	LDA-V0608-1
POAH_AY1K1_1	AY101K1 FLTR DELTA P HI	TkInFltr Dp	2	0	1	2	3	NORMAL	HIGH	47	1	H-2-131075, SH 1	POAH-AY1K1-1
POAH_AY1WF_2	AY101-W-F-2 DELTA P HI	EwTwrPtr Dp	3	0	1	2	7	NORMAL	HIGH	47	20	H-2-131067, SH 1	POAH-AY1WF-2
POAH_AY2K1_1	AY102K1 FLTR DELTA P HI	TkInFltr Dp	2	0	1	2	3	NORMAL	HIGH	48	1	H-2-131075, SH 1	POAH-AY2K1-1
POAH_AY2WF_2	AY102-W-F-2 DELTA P HI	EwTwrPtr Dp	3	0	1	2	7	NORMAL	HIGH	48	20	H-2-131068, SH 1	POAH-AY2WF-2
POAH_AZ1K1_1	AZ101K1 FLTR DELTA P HI	TkInFltr Dp	2	0	1	2	3	NORMAL	HIGH	52	1	H-2-131075, SH 2	POAH-AZ1K1-1
POAH_AZ1WF_2	AZ101-W-F-2 DELTA P HI	EwTwrPtr Dp	3	0	1	2	7	NORMAL	HIGH	52	20	H-2-131069, SH 1	POAH-AZ1WF-2
POAH_AZ2K1_1	AZ102K1 FLTR DELTA P HI	TkInFltr Dp	2	0	1	2	3	NORMAL	HIGH	53	1	H-2-131075, SH 2	POAH-AZ2K1-1

Tag Name	Long Description	Desc	AI APP	ac LO	m HI	Col LOC	Gr HI	Desc	Desc	Cont	Ch	Ref	Ref
PDAH_AZ2WF_2	AZ102-W-F-2 DELTA P HI	EwTrFtr Dp	3	0	1	2	7	NORMAL	HIGH	53	20	H-2-131070, SH 1	PDAH-AZ2WF-2
RAH_702_K3_1	BV STACK RADIATION HI	BvStac Rad	1	0	1	2	1	NORMAL	HIGH	39	25	H-2-131081, SH 1	RAH-702K3-1
RAH_AZ_K19_1	AZ-K1-9-1 RADIATION HI	Heme Rad	2	1	0	3	2	HIGH	NORMAL	28	1	H-2-131075, SH 3	RAH-AZK19-1
RAH_AZ_K1_1	PV STACK RADIATION HI	PvStac Rad	1	0	1	2	1	NORMAL	HIGH	17	25	H-2-131078, SH 1	RAH-AZK1-1
RAX_702_K3_1	BV STK RAD MONITOR FAIL	BvStac Rad	2	0	1	2	3	NORMAL	FAILURE	39	26	H-2-131081, SH 1	RAX-702K3-1
RAX_AZ_K19_1	AZ-K1-9-1 RAD MONITOR FAIL	Heme Rad	2	1	0	3	2	FAILURE	NORMAL	28	2	H-2-131075, SH 3	RAX-AZK19-1
RAX_AZ_K1_1	PV STACK RAD MONITOR FAIL	PvStac Rad	2	0	1	2	3	NORMAL	FAILURE	17	26	H-2-131078, SH 1	RAX-AZK1-1
TAL_AY1_K12_1	AY101-K1-2-1 TEMP LO	TkInFltr Temp	3	1	0	7	2	LOW	NORMAL	47	2	H-2-131075, SH 1	TAL-AY1K12-1
TAL_AY2_K12_1	AY102-K1-2-1 TEMP LO	TkInFltr Temp	3	1	0	7	2	LOW	NORMAL	48	2	H-2-131075, SH 1	TAL-AY2K12-1
TAL_AZ1_K12_1	AZ101-K1-2-1 TEMP LO	TkInFltr Temp	3	1	0	7	2	LOW	NORMAL	52	2	H-2-131075, SH 2	TAL-AZ1K12-1
TAL_AZ2_K12_1	AZ102-K1-2-1 TEMP LO	TkInFltr Temp	3	1	0	7	2	LOW	NORMAL	53	2	H-2-131075, SH 2	TAL-AZ2K12-1
XA_AZ_CWR_1	AZ-CW-R-1 TROUBLE	Chiller Status	2	0	1	2	3	NORMAL	TROUBLE	28	17	H-2-131071, SH 1	XA-AZCWR-1
XA_AZ_EPRBAT_1	AZ-EPR-BAT-1 FAIL	Battery Status	2	0	1	2	3	NORMAL	TROUBLE	18	1		
XA_AZ_EPRG_1	AZ-EPR-G-1 FAIL	DieslGen Status	2	0	1	2	3	NORMAL	FAILURE	7	1		
XA_AZ_EPRUPS_1	AZ-EPR-UPS-1 FAIL	Ups1 Status	2	0	1	2	3	NORMAL	TROUBLE	7	2		
XA_AZ_EPRUPS_2	AZ-EPR-UPS-2 FAIL	Ups2 Status	2	0	1	2	3	NORMAL	TROUBLE	18	2		
XA_AZ_EPRUPS_3	AZ-EPR-UPS-3 FAIL	Ups3 Status	2	0	1	2	3	NORMAL	TROUBLE	18	3		
XS_RCM_A13_1A	RCMA-13 K-A DISCRETE STATUS	Rcm-A13 Status	0	0	0	4	7	FALSE	TRUE	18	26		
XS_RCM_A14_1A	RCMA-14 K-A DISCRETE STATUS	Rcm-A14 Status	0	0	0	4	7	FALSE	TRUE	18	27		
XS_RCM_A2_1A	RCMA-2 K-A DISCRETE STATUS	Rcm-A2 Status	0	0	0	4	7	FALSE	TRUE	7	26		
XS_RCM_A3_1A	RCMA-3 K-A DISCRETE STATUS	Rcm-A3 Status	0	0	0	4	7	FALSE	TRUE	7	27		
XS_RCM_D17_1A	RCMD-17 K-A DISCRETE STATUS	Rcm-D17 Status	0	0	0	4	7	FALSE	TRUE	18	28		
XS_RCM_D18_1A	RCMD-18 K-A DISCRETE STATUS	Rcm-D18 Status	0	0	0	4	7	FALSE	TRUE	20	31		
XS_RCM_D18_2A	RCMD-18 K-A DISCRETE STATUS	Rcm-D18 Status	0	0	0	4	7	FALSE	TRUE	21	31		

Tag Name	Long Description	Desc	Al	ar	m	Col	or	Desc	Desc	Unit	Unit	PLID	Tag
XS_RCM_D6_1A	RCMD-6 K-A DISCRETE STATUS	Rcm-D6 Status	0	0	0	4	7	FALSE	TRUE	7	28		
XS_RCM_D7_1A	RCMD-7 K-A DISCRETE STATUS	Rcm-D7 Status	0	0	0	4	7	FALSE	TRUE	9	31		
XS_RCM_D7_2A	RCMD-7 K-A DISCRETE STATUS	Rcm-D7 Status	0	0	0	4	7	FALSE	TRUE	10	31		
XS_RCM_DR10_1A	RCMDR-10 K-A DISCRETE STATUS	Rcm-Dr10 Status	0	0	0	4	7	FALSE	TRUE	7	30		
XS_RCM_DR20_1A	RCMDR-20 K-A DISCRETE STATUS	Rcm-Dr20 Status	0	0	0	4	7	FALSE	TRUE	18	29		
XS_RCM_DR21_1A	RCMDR-21 K-A DISCRETE STATUS	Rcm-Dr21 Status	0	0	0	4	7	FALSE	TRUE	18	30		
XS_RCM_DR9_1A	RCMDR-9 K-A DISCRETE STATUS	Rcm-Dr9 Status	0	0	0	4	7	FALSE	TRUE	7	29		
YS_702_K26_1	AZ702-K2-6-1 STATUS	BvAcUnit Status	0	0	0	4	7	OFF	ON	39	1	H-2-131073, SH 1	HS-702K26-1
YS_702_K26_1A1	HS-AZ702K206-1A1 POSITION	BvAcUnit RemLoc	3	1	0	7	2	LOCAL	REMOTE	39	2	H-2-131073, SH 1	YS-702K26-1A1
YS_702_K35_1A1	HS-AZ702K305-1A1 POSITION	BvFanA RemLoc	3	1	0	7	2	LOCAL	REMOTE	39	15	H-2-131073, SH 2	YS-702K35-1A1
YS_702_K35_1B1	HS-AZ702K305-1B1 POSITION	BvFanB RemLoc	3	1	0	7	2	LOCAL	REMOTE	39	16	H-2-131073, SH 2	YS-702K35-1B1
YS_AY1_EWP_1A1	HS-AY101EWP-1A1 POSITION	EwPump1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	47	25	H-2-131067, SH 1	YS-AY1EWP-1A1
YS_AY1_EWP_1B1	HS-AY101EWP-1B1 POSITION	EwPump1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	47	26	H-2-131067, SH 1	YS-AY1EWP-1B1
YS_AY1_EWSP_1	AY101-EW-SP-1 STATUS	EwSpPump Status	0	0	0	4	7	OFF	ON	47	21	H-2-131067, SH 1	HS-AY1EWS-1
YS_AY1_EWT_1	AY101-EW-T-1 FAN STATUS	EwTower Status	0	0	0	4	7	OFF	ON	47	22	H-2-131067, SH 1	HS-AY1EWT-1
YS_AY1_K45_1A1	HS-AY101K405-1A1 POSITION	RcrcFan RemLoc	3	1	0	7	2	LOCAL	REMOTE	47	9	H-2-131062, SH 1	YS-AY1K45-1A1
YS_AY2_EWP_1A1	HS-AY102EWP-1A1 POSITION	EwPump1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	48	25	H-2-131068, SH 1	YS-AY2EWP-1A1
YS_AY2_EWP_1B1	HS-AY102EWP-1B1 POSITION	EwPump1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	48	26	H-2-131068, SH 1	YS-AY2EWP-1B1
YS_AY2_EWSP_1	AY102-EW-SP-1 STATUS	EwSpPump Status	0	0	0	4	7	OFF	ON	48	21	H-2-131068, SH 1	HS-AY2EWS-1
YS_AY2_EWT_1	AY102-EW-T-1 FAN STATUS	EwTower Status	0	0	0	4	7	OFF	ON	48	22	H-2-131068, SH 1	HS-AY2EWT-1
YS_AY2_K45_1A1	HS-AY102K405-1A1 POSITION	RcrcFan RemLoc	3	1	0	7	2	LOCAL	REMOTE	48	9	H-2-131063, SH 1	YS-AY2K45-1A1
YS_AZ1_EWP_1A1	HS-AZ101EWP-1A1 POSITION	EwPump1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	52	25	H-2-131069, SH 1	YS-AZ1EWP-1A1
YS_AZ1_EWP_1B1	HS-AZ101EWP-1B1 POSITION	EwPump1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	52	26	H-2-131069, SH 1	YS-AZ1EWP-1B1
YS_AZ1_EWSP_1	AZ101-EW-SP-1 STATUS	EwSpPump Status	0	0	0	4	7	OFF	ON	52	21	H-2-131069, SH 1	HS-AZ1EWS-1

Tag Name	Long Description	Tag Desc	Al	at	m	Col	or	Descrlo	Descrlo	Intlg	Ch	PAIG	Tag
YS_AZ1_EWT_1	AZ101-EW-T-1 FAN STATUS	EwTower Status	0	0	0	4	7	OFF	ON	52	22	H-2-131069, SH 1	HS-AZ1EWT-1
YS_AZ1_K45_1A1	HS-AZ101K405-1A1 POSITION	RercFan RemLoc	3	1	0	7	2	LOCAL	REMOTE	52	9	H-2-131064, SH 1	YS-AZ1K45-1A1
YS_AZ2_EWP_1A1	HS-AZ102EWP-1A1 POSITION	EwPump1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	53	25	H-2-131070, SH 1	YS-AZ2EWP-1A1
YS_AZ2_EWP_1B1	HS-AZ102EWP-1B1 POSITION	EwPump1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	53	26	H-2-131070, SH 1	YS-AZ2EWP-1B1
YS_AZ2_EWSP_1	AZ102-EW-SP-1 STATUS	EwSpPump Status	0	0	0	4	7	OFF	ON	53	21	H-2-131070, SH 1	HS-AZ2EWSP-1
YS_AZ2_EWT_1	AZ102-EW-T-1 FAN STATUS	EwTower Status	0	0	0	4	7	OFF	ON	53	22	H-2-131070, SH 1	HS-AZ2EWT-1
YS_AZ2_K45_1A1	HS-AZ102K405-1A1 POSITION	RercFan RemLoc	3	1	0	7	2	LOCAL	REMOTE	53	9	H-2-131065, SH 1	YS-AZ2K45-1A1
YS_AZ_CWP_1A1	HS-AZCWP-1A1 POSITION	CwPump1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	28	18	H-2-131071, SH 1	YS-AZCWP-1A1
YS_AZ_CWP_1B1	HS-AZCWP-1B1 POSITION	CwPump1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	28	19	H-2-131071, SH 1	YS-AZCWP-1B1
YS_AZ_CWR_1	AZ-CW-R-1 STATUS	Chiller Status	0	0	0	4	7	OFF	ON	28	16	H-2-131071, SH 1	HS-AZCWR-1
YS_AZ_EPRG_1	AZ-EPR-G-1 STATUS	DieslGen Status	2	0	1	4	7	OFF	ON	7	8		
YS_AZ_EPR_1A	POWER XFR SWITCH #1 POSITION	XfrSw1 PosnNorm	0	0	0	4	7	NOT NORM	NORMAL	7	3		
YS_AZ_EPR_1B	POWER XFR SWITCH #1 POSITION	XfrSw1 PosStdby	2	0	1	2	3	NT STDBY	STANDBY	7	4		
YS_AZ_EPR_2A	POWER XFR SWITCH #2 POSITION	XfrSw2 PosnNorm	0	0	0	4	7	NOT NORM	NORMAL	18	4		
YS_AZ_EPR_2B	POWER XFR SWITCH #2 POSITION	XfrSw2 PosStdby	2	0	1	2	3	NT STDBY	STANDBY	18	5		
YS_AZ_K12_1A	AZ-K1-2-1A STATUS	PvHtr1A Status	0	0	0	4	7	OFF	ON	6	16	H-2-131076, SH 1	HS-AZK12-1A1
YS_AZ_K12_1A1	HS-AZK102-1A1 POSITION	PvHtr1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	6	17	H-2-131076, SH 1	HS-AZK12-1A1
YS_AZ_K12_1B	AZ-K1-2-1B STATUS	PvHtr1B Status	0	0	0	4	7	OFF	ON	17	16	H-2-131076, SH 1	HS-AZK12-1B1
YS_AZ_K12_1B1	HS-AZK102-1B1 POSITION	PvHtr1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	17	17	H-2-131076, SH 1	HS-AZK12-1B1
YS_AZ_K15_1A1	AZ-K1-5-1A VSD MODE	PvFan1A RemLoc	3	1	0	7	2	LOCAL	REMOTE	6	20	H-2-131076, SH 1	YS-AZK15-1A1
YS_AZ_K15_1B1	AZ-K1-5-1B VSD MODE	PvFan1B RemLoc	3	1	0	7	2	LOCAL	REMOTE	17	20	H-2-131076, SH 1	YS-AZK15-1B1
ZS_702_K2_6AA	MK-AZ702K2-6A POSITION	RnDmpr6APosnOpen	0	0	0	6	6	NOT CLS	CLOSED	7	10	H-2-131077, SH 1	HS-702K2-6 TE-3
ZS_702_K2_6AB	MK-AZ702K2-6A POSITION	RnDmpr6APosnClse	0	0	0	6	6	NOT CLS	CLOSED	7	11	H-2-131077, SH 1	HS-702K2-6
ZS_702_K2_6BA	MK-AZ702K2-6B POSITION	RnDmpr6BPosnOpen	0	0	0	6	6	NOT CLS	CLOSED	7	12	H-2-131077, SH 1	HS-702K2-6 TE-3

Ref Name	Long Description	Desc	Alt P	m	Col	Or	Desc	Disch	Condr	TH	PH	SH	SH
ZS_702_K2_6BB	MK-AZ702K2-6B POSITION	RndDmpr6BPosnCIs	0	0	0	6	6	NOT CLS	7	13	H-2-131077	SH 1	HS-702K2-6
ZS_702_K2_7AA	MK-AZ702K2-7A POSITION	E/Irma PosnCIs	0	0	0	6	6	NOT CLS	7	14	H-2-131077	SH 1	HS-702K2-7 TE-3
ZS_702_K2_7AB	MK-AZ702K2-7A POSITION	E/Irma PosnCIs	0	0	0	6	6	NOT CLS	7	15	H-2-131077	SH 1	HS-702K2-7
ZS_702_K2_7BA	MK-AZ702K2-7B POSITION	E/Irma PosnCIs	0	0	0	6	6	NOT CLS	7	16	H-2-131077	SH 1	HS-702K2-7 TE-3
ZS_702_K2_7BB	MK-AZ702K2-7B POSITION	E/Irma PosnCIs	0	0	0	6	6	NOT CLS	7	17	H-2-131077	SH 1	HS-702K2-7
ZS_702_K2_8AA	MK-AZ702K2-8A POSITION	RndDmpr8APosnCIs	0	0	0	6	6	NOT CLS	18	10	H-2-131077	SH 1	HS-702K2-8 TE-3
ZS_702_K2_8AB	MK-AZ702K2-8A POSITION	RndDmpr8APosnCIs	0	0	0	6	6	NOT CLS	18	11	H-2-131077	SH 1	HS-702K2-8
ZS_702_K2_8BA	MK-AZ702K2-8B POSITION	RndDmpr8BPosnCIs	0	0	0	6	6	NOT CLS	18	12	H-2-131077	SH 1	HS-702K2-8 TE-3
ZS_702_K2_8BB	MK-AZ702K2-8B POSITION	RndDmpr8BPosnCIs	0	0	0	6	6	NOT CLS	18	13	H-2-131077	SH 1	HS-702K2-8
ZS_702_K3_2AA	MK-AZ702K3-2A POSITION	BvDmpr2APosnCIs	0	0	0	6	6	NOT CLS	39	20	H-2-131073	SH 2	HS-702K3-2A TE-3
ZS_702_K3_2AB	MK-AZ702K3-2A POSITION	BvDmpr2APosnCIs	0	0	0	6	6	NOT CLS	39	21	H-2-131073	SH 2	HS-702K3-2A
ZS_702_K3_2BA	MK-AZ702K3-2A POSITION	BvDmpr2BPosnCIs	0	0	0	6	6	NOT CLS	39	22	H-2-131073	SH 2	HS-702K3-2B TE-3
ZS_702_K3_2BB	MK-AZ702K3-2A POSITION	BvDmpr2BPosnCIs	0	0	0	6	6	NOT CLS	39	23	H-2-131073	SH 2	HS-702K3-2B
ZS_AY1_K4_1A	MK-AY101K4-1 POSITION	IndDmpr PosnCIs	0	0	0	6	6	NOT CLS	47	10	H-2-131062	SH 1	ZS-AY1K4-1 TE-3
ZS_AY1_K4_1B	MK-AY101K4-1 POSITION	IndDmpr PosnCIs	0	0	0	6	6	NOT CLS	47	11	H-2-131062	SH 1	ZS-AY1K4-1
ZS_AY1_K4_2A	MK-AY101K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	47	12	H-2-131062	SH 1	ZS-AY1K4-2 TE-3
ZS_AY1_K4_2B	MK-AY101K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	47	13	H-2-131062	SH 1	ZS-AY1K4-2
ZS_AY1_K4_3A	MK-AY101K4-3 POSITION	RndDmpr PosnCIs	0	0	0	6	6	NOT OPEN	47	14	H-2-131062	SH 1	ZS-AY1K4-3
ZS_AY1_K4_3B	MK-AY101K4-3 POSITION	RndDmpr PosnCIs	0	0	0	6	6	NOT CLS	47	15	H-2-131062	SH 1	ZS-AY1K4-3
ZS_AY1_K4_4A	MK-AY101K4-4 POSITION	BypDmprPosnCIs	0	0	0	6	6	NOT OPEN	47	16	H-2-131062	SH 1	ZS-AY1K4-4
ZS_AY1_K4_4B	MK-AY101K4-4 POSITION	BypDmprPosnCIs	0	0	0	6	6	NOT CLS	47	17	H-2-131062	SH 1	ZS-AY1K4-4
ZS_AY2_K4_1A	MK-AY102K4-1 POSITION	IndDmpr PosnCIs	0	0	0	6	6	NOT CLS	48	10	H-2-131063	SH 1	ZS-AY2K4-1 TE-3
ZS_AY2_K4_1B	MK-AY102K4-1 POSITION	IndDmpr PosnCIs	0	0	0	6	6	NOT CLS	48	11	H-2-131063	SH 1	ZS-AY2K4-1
ZS_AY2_K4_2A	MK-AY102K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	48	12	H-2-131063	SH 1	ZS-AY2K4-2 TE-3

Tag Name	Long Description	Desc	Al	Ar	Lo	Col	or	Desc	Desc	Cnt	U	POD	POD
ZS_AY2_K4_2B	MK-AY102K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	48	13	H-2-131063, SH 1	ZS-AY2K4-2
ZS_AY2_K4_3A	MK-AY102K4-3 POSITION	RtnDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	48	14	H-2-131063, SH 1	ZS-AY2K4-3
ZS_AY2_K4_3B	MK-AY102K4-3 POSITION	RtnDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	48	15	H-2-131063, SH 1	ZS-AY2K4-3
ZS_AY2_K4_4A	MK-AY102K4-4 POSITION	BypsDmprPosnOpen	0	0	0	6	6	NOT OPEN	OPEN	48	16	H-2-131063, SH 1	ZS-AY2K4-4
ZS_AY2_K4_4B	MK-AY102K4-4 POSITION	BypsDmprPosnCIs	0	0	0	6	6	NOT CLS	CLOSED	48	17	H-2-131063, SH 1	ZS-AY2K4-4
ZS_AZ1_K4_1A	MK-AZ101K4-1 POSITION	InDmpr PosnOpen	0	0	0	6	6	NOT CLS	CLOSED	52	10	H-2-131064, SH 1	ZS-AZ1K4-1
ZS_AZ1_K4_1B	MK-AZ101K4-1 POSITION	InDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	52	11	H-2-131064, SH 1	ZS-AZ1K4-1
ZS_AZ1_K4_2A	MK-AZ101K4-2 POSITION	OutDmpr PosnOpen	0	0	0	6	6	NOT CLS	CLOSED	52	12	H-2-131064, SH 1	ZS-AZ1K4-2
ZS_AZ1_K4_2B	MK-AZ101K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	52	13	H-2-131064, SH 1	ZS-AZ1K4-2
ZS_AZ1_K4_3A	MK-AZ101K4-3 POSITION	RtnDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	52	14	H-2-131064, SH 1	ZS-AZ1K4-3
ZS_AZ1_K4_3B	MK-AZ101K4-3 POSITION	RtnDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	52	15	H-2-131064, SH 1	ZS-AZ1K4-3
ZS_AZ1_K4_4A	MK-AZ101K4-4 POSITION	BypsDmprPosnOpen	0	0	0	6	6	NOT OPEN	OPEN	52	16	H-2-131064, SH 1	ZS-AZ1K4-4
ZS_AZ1_K4_4B	MK-AZ101K4-4 POSITION	BypsDmprPosnCIs	0	0	0	6	6	NOT CLS	CLOSED	52	17	H-2-131064, SH 1	ZS-AZ1K4-4
ZS_AZ2_K4_1A	MK-AZ102K4-1 POSITION	InDmpr PosnOpen	0	0	0	6	6	NOT CLS	CLOSED	53	10	H-2-131065, SH 1	ZS-AZ2K4-1
ZS_AZ2_K4_1B	MK-AZ102K4-1 POSITION	InDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	53	11	H-2-131065, SH 1	ZS-AZ2K4-1
ZS_AZ2_K4_2A	MK-AZ102K4-2 POSITION	OutDmpr PosnOpen	0	0	0	6	6	NOT CLS	CLOSED	53	12	H-2-131065, SH 1	ZS-AZ2K4-2
ZS_AZ2_K4_2B	MK-AZ102K4-2 POSITION	OutDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	53	13	H-2-131065, SH 1	ZS-AZ2K4-2
ZS_AZ2_K4_3A	MK-AZ102K4-3 POSITION	RtnDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	53	14	H-2-131065, SH 1	ZS-AZ2K4-3
ZS_AZ2_K4_3B	MK-AZ102K4-3 POSITION	RtnDmpr PosnCIs	0	0	0	6	6	NOT CLS	CLOSED	53	15	H-2-131065, SH 1	ZS-AZ2K4-3
ZS_AZ2_K4_4A	MK-AZ102K4-4 POSITION	BypsDmprPosnOpen	0	0	0	6	6	NOT OPEN	OPEN	53	16	H-2-131065, SH 1	ZS-AZ2K4-4
ZS_AZ2_K4_4B	MK-AZ102K4-4 POSITION	BypsDmprPosnCIs	0	0	0	6	6	NOT CLS	CLOSED	53	17	H-2-131065, SH 1	ZS-AZ2K4-4
ZS_AZ_K15_1A1	MK-AZK105-1A1 POSITION	InDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	6	21	H-2-131076, SH 1	ZS-AZK15-1A1
ZS_AZ_K15_1A2	MK-AZK105-1A2 POSITION	OutDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	6	22	H-2-131076, SH 1	ZS-AZK15-1A2
ZS_AZ_K15_1A3	AZ-K1-5-1A BD DAMPER POSITION	BdDmpr PosnOpen	0	0	0	6	6	NOT OPEN	OPEN	6	23	H-2-131076, SH 1	ZS-AZK15-1A3

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ZS_AZ_K1_3B	MK-AZK1-3B POSITION	Pvdmpx3BposOpen	0	0	0	6	6	6	NOT OPEN	OPEN	17	7	H-2-131076, SH 1	ZS-AZK1-3B	
Tag Name	Long Description	Desc	AI	SP	Lo	Hi	Lo	Hi	Col	OR	Desc	Lo	Hi	Col	OR

MASTER DI POINT LIST REPORT

ATTACHMENT "F"

MASTER DO (DISCRETE OUTPUT)
POINT LIST REPORT

Tag Name	Long Description	Desc	AI	ar	m	Col	or	Desc	Desc	Unit	Ph	PHD	Tag
Tag Name	Long Description	Desc	AI	ar	m	Col	or	Desc	Desc	Unit	Ph	PHD	Tag
AY1__EWP_1AA	AY101-EW-P-1A DISCRETE: START	EwPump1A Start	0	0	0	4	7	FALSE	TRUE	49	5	H-2-131067, SH 1	HS-AY1EWP-1A
AY1__EWP_1AB	AY101-EW-P-1A DISCRETE: STOP	EwPump1A Stop	0	0	0	4	7	FALSE	TRUE	49	6	H-2-131067, SH 1	HS-AY1EWP-1A
AY1__EWP_1BA	AY101-EW-P-1B DISCRETE: START	EwPump1B Start	0	0	0	4	7	FALSE	TRUE	49	7	H-2-131067, SH 1	HS-AY1EWP-1B
AY1__EWP_1BB	AY101-EW-P-1B DISCRETE: STOP	EwPump1B Stop	0	0	0	4	7	FALSE	TRUE	49	8	H-2-131067, SH 1	HS-AY1EWP-1B
AY1__EWSP_1A	AY101-EW-SP-1 DISCRETE: START	EwSpPump Start	0	0	0	4	7	FALSE	TRUE	49	9	H-2-131067, SH 1	HS-AY1EWSP-1
AY1__EWSP_1B	AY101-EW-SP-1 DISCRETE: STOP	EwSpPump Stop	0	0	0	4	7	FALSE	TRUE	49	10	H-2-131067, SH 1	HS-AY1EWSP-1
AY1__EWT_1A	AY101-EW-T-1 FAN DISCRETE: ON	EwTower On	0	0	0	4	7	FALSE	TRUE	49	11	H-2-131067, SH 1	HS-AY1EWT-1
AY1__EWT_1B	AY101-EW-T-1 FAN DISCRETE: OFF	EwTower Off	0	0	0	4	7	FALSE	TRUE	49	12	H-2-131067, SH 1	HS-AY1EWT-1
AY1__K45_1A	AY101-K4-5-1 DISCRETE: START	RrcrFan Start	0	0	0	4	7	FALSE	TRUE	49	1	H-2-131062, SH 1	HS-AY1K45-1
AY1__K45_1B	AY101-K4-5-1 DISCRETE: STOP	RrcrFan Stop	0	0	0	4	7	FALSE	TRUE	49	2	H-2-131062, SH 1	HS-AY1K45-1
AY2__EWP_1AA	AY102-EW-P-1A DISCRETE: START	EwPump1A Start	0	0	0	4	7	FALSE	TRUE	49	20	H-2-131068, SH 1	HS-AY2EWP-1A
AY2__EWP_1AB	AY102-EW-P-1A DISCRETE: STOP	PvrStrtB Stop	0	0	0	4	7	FALSE	TRUE	49	21	H-2-131068, SH 1	HS-AY2EWP-1A
AY2__EWP_1BA	AY102-EW-P-1B DISCRETE: START	EwPump1B Start	0	0	0	4	7	FALSE	TRUE	49	22	H-2-131068, SH 1	HS-AY2EWP-1B
AY2__EWP_1BB	AY102-EW-P-1B DISCRETE: STOP	EwPump1B Stop	0	0	0	4	7	FALSE	TRUE	49	23	H-2-131068, SH 1	HS-AY2EWP-1B
AY2__EWSP_1A	AY102-EW-SP-1 DISCRETE: START	EwSpPump Start	0	0	0	4	7	FALSE	TRUE	49	24	H-2-131068, SH 1	HS-AY2EWSP-1
AY2__EWSP_1B	AY102-EW-SP-1 DISCRETE: STOP	EwSpPump Stop	0	0	0	4	7	FALSE	TRUE	49	25	H-2-131068, SH 1	HS-AY2EWSP-1
AY2__EWT_1A	AY102-EW-T-1 FAN DISCRETE: ON	EwTower On	0	0	0	4	7	FALSE	TRUE	49	26	H-2-131068, SH 1	HS-AY2EWT-1
AY2__EWT_1B	AY102-EW-T-1 FAN DISCRETE: OFF	EwTower Off	0	0	0	4	7	FALSE	TRUE	49	27	H-2-131068, SH 1	HS-AY2EWT-1
AY2__K45_1A	AY102-K4-5-1 DISCRETE: START	RrcrFan Start	0	0	0	4	7	FALSE	TRUE	49	15	H-2-131063, SH 1	HS-AY2K45-1
AY2__K45_1B	AY102-K4-5-1 DISCRETE: STOP	RrcrFan Stop	0	0	0	4	7	FALSE	TRUE	49	16	H-2-131063, SH 1	HS-AY2K45-1
AZ1__EWP_1AA	AZ101-EW-P-1A DISCRETE: START	EwPump1A Start	0	0	0	4	7	FALSE	TRUE	54	5	H-2-131069, SH 1	HS-AZ1EWP-1A
AZ1__EWP_1AB	AZ101-EW-P-1A DISCRETE: STOP	EwPump1A Stop	0	0	0	4	7	FALSE	TRUE	54	6	H-2-131069, SH 1	HS-AZ1EWP-1A
AZ1__EWP_1BA	AZ101-EW-P-1B DISCRETE: START	EwPump1B Start	0	0	0	4	7	FALSE	TRUE	54	7	H-2-131069, SH 1	HS-AZ1EWP-1B
AZ1__EWP_1BB	AZ101-EW-P-1B DISCRETE: STOP	EwPump1B Stop	0	0	0	4	7	FALSE	TRUE	54	8	H-2-131069, SH 1	HS-AZ1EWP-1B

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Tag Name	Long Description	Description	Al SP	ar Lo	m Hi	Col Lo	or Hi	Desc Lo	Desc Hi	Unit	On	RevD	Tag
AZ1 EWSP_1A	AZ101-EW-SP-1 DISCRETE: START	EwSpPump Start	0	0	0	4	7	FALSE	TRUE	54	9	H-2-131069, SH 1	HS-AZ1EWSP-1
AZ1 EWSP_1B	AZ101-EW-SP-1 DISCRETE: STOP	EwSpPump Stop	0	0	0	4	7	FALSE	TRUE	54	10	H-2-131069, SH 1	HS-AZ1EWSP-1
AZ1 EWT_1A	AZ101-EW-T-1 FAN DISCRETE: ON	EwTower On	0	0	0	4	7	FALSE	TRUE	54	11	H-2-131069, SH 1	HS-AZ1EWT-1
AZ1 EWT_1B	AZ101-EW-T-1 FAN DISCRETE: OFF	EwTower Off	0	0	0	4	7	FALSE	TRUE	54	12	H-2-131069, SH 1	HS-AZ1EWT-1
AZ1 K45_1A	AZ101-K4-5-1 DISCRETE: START	RercFan Start	0	0	0	4	7	FALSE	TRUE	54	1	H-2-131064, SH 1	HS-AZ1K45-1
AZ1 K45_1B	AZ101-K4-5-1 DISCRETE: STOP	RercFan Stop	0	0	0	4	7	FALSE	TRUE	54	2	H-2-131064, SH 1	HS-AZ1K45-1
AZ2 EWP_1AA	AZ102-EW-P-1A DISCRETE: START	EwPump1A Start	0	0	0	4	7	FALSE	TRUE	54	20	H-2-131070, SH 1	HS-AZ2EWP-1A
AZ2 EWP_1AB	AZ102-EW-P-1A DISCRETE: STOP	EwPump1A Stop	0	0	0	4	7	FALSE	TRUE	54	21	H-2-131070, SH 1	HS-AZ2EWP-1A
AZ2 EWP_1BA	AZ102-EW-P-1B DISCRETE: START	EwPump1B Start	0	0	0	4	7	FALSE	TRUE	54	22	H-2-131070, SH 1	HS-AZ2EWP-1B
AZ2 EWP_1BB	AZ102-EW-P-1B DISCRETE: STOP	EwPump1B Stop	0	0	0	4	7	FALSE	TRUE	54	23	H-2-131070, SH 1	HS-AZ2EWP-1B
AZ2 EWSP_1A	AZ102-EW-SP-1 DISCRETE: START	EwSpPump Start	0	0	0	4	7	FALSE	TRUE	54	24	H-2-131070, SH 1	HS-AZ2EWSP-1
AZ2 EWSP_1B	AZ102-EW-SP-1 DISCRETE: STOP	EwSpPump Stop	0	0	0	4	7	FALSE	TRUE	54	25	H-2-131070, SH 1	HS-AZ2EWSP-1
AZ2 EWT_1A	AZ102-EW-T-1 FAN DISCRETE: ON	EwTower On	0	0	0	4	7	FALSE	TRUE	54	26	H-2-131070, SH 1	HS-AZ2EWT-1
AZ2 EWT_1B	AZ102-EW-T-1 FAN DISCRETE: OFF	EwTower Off	0	0	0	4	7	FALSE	TRUE	54	27	H-2-131070, SH 1	HS-AZ2EWT-1
AZ2 K45_1A	AZ102-K4-5-1 DISCRETE: START	RercFan Start	0	0	0	4	7	FALSE	TRUE	54	15	H-2-131065, SH 1	HS-AZ2K45-1
AZ2 K45_1B	AZ102-K4-5-1 DISCRETE: STOP	RercFan Stop	0	0	0	4	7	FALSE	TRUE	54	16	H-2-131065, SH 1	HS-AZ2K45-1
AZ CW_P_1AA	AZ-CW-P-1A DISCRETE: START	CwPump1A Start	0	0	0	4	7	FALSE	TRUE	31	10	H-2-131071, SH 1	HS-AZCWP-1A
AZ CW_P_1AB	AZ-CW-P-1A DISCRETE: STOP	CwPump1A Stop	0	0	0	4	7	FALSE	TRUE	31	11	H-2-131071, SH 1	HS-AZCWP-1A
AZ CW_P_1BA	AZ-CW-P-1B DISCRETE: START	CwPump1B Start	0	0	0	4	7	FALSE	TRUE	31	12	H-2-131071, SH 1	HS-AZCWP-1B
AZ CW_P_1BB	AZ-CW-P-1B DISCRETE: STOP	CwPump1B Stop	0	0	0	4	7	FALSE	TRUE	31	13	H-2-131071, SH 1	HS-AZCWP-1B
AZ CWR_1A	AZ-CW-R-1 DISCRETE: ON	Chiller On	0	0	0	4	7	FALSE	TRUE	31	14	H-2-131071, SH 1	HS-AZCWR-1
AZ CWR_1B	AZ-CW-R-1 DISCRETE: OFF	Chiller Off	0	0	0	4	7	FALSE	TRUE	31	15	H-2-131071, SH 1	HS-AZCWR-1
AZ K12_1AA	AZ-K1-2-1A DISCRETE: ON	PvHtrlA On	0	0	0	4	7	FALSE	TRUE	9	10	H-2-131076, SH 1	HS-AZK12-1A
AZ K12_1AB	AZ-K1-2-1A DISCRETE: OFF	PvRstrtB Off	0	0	0	4	7	FALSE	TRUE	9	11	H-2-131076, SH 1	HS-AZK12-1A

Tag Name	Long Description	Desc	Al	ar	m	Col	or	DescLo	DescHi	Unit	Q1	Q2	Q3	Q4
AZ_K12_1BA	AZ-K1-2-1B DISCRETE: ON	PvHtr1B Status	0	0	0	4	7	FALSE	TRUE	20	10	H-2-131076, SH 1	HS-AZK12-1B	
AZ_K12_1BB	AZ-K1-2-1B DISCRETE: OFF	PvHtr1B Status	0	0	0	4	7	FALSE	TRUE	20	11	H-2-131076, SH 1	HS-AZK12-1B	
AZ_K15_1AA	AZ-K1-5-1A DISCRETE: START	PvFan1A Start	0	0	0	4	7	FALSE	TRUE	10	10	H-2-131076, SH 1	HS-AZK15-1A	
AZ_K15_1AB	AZ-K1-5-1A DISCRETE: STOP	PvRstrtB Stop	0	0	0	4	7	FALSE	TRUE	10	11	H-2-131076, SH 1	HS-AZK15-1A	
AZ_K15_1BA	AZ-K1-5-1B DISCRETE: START	PvFan1B Status	0	0	0	4	7	FALSE	TRUE	21	10	H-2-131076, SH 1	HS-AZK15-1B	
AZ_K15_1BB	AZ-K1-5-1B DISCRETE: STOP	PvFan1B Status	0	0	0	4	7	FALSE	TRUE	21	11	H-2-131076, SH 1	HS-AZK15-1B	
FSL_AZ_CWR_1	3" CWR-AZ205-M4 FLOW LO	Chiller Flow	0	0	0	4	7	LOW	NORMAL	31	1	H-2-131071, SH 1	FI-AZCWR-1	
MK_702_K2_6AA	MK-AZ702K2-6A DISCRETE: OPEN	RmDmpr6A Open	0	0	0	4	7	FALSE	TRUE	10	20	H-2-131077, SH 1	HS-702K2-6	
MK_702_K2_6AB	MK-AZ702K2-6A DISCRETE: CLOSE	RmDmpr6A Close	0	0	0	4	7	FALSE	TRUE	10	21	H-2-131077, SH 1	HS-702K2-6	
MK_702_K2_6BA	MK-AZ702K2-6B DISCRETE: OPEN	RmDmpr6B Open	0	0	0	4	7	FALSE	TRUE	10	22	H-2-131077, SH 1	HS-702K2-6	
MK_702_K2_6BB	MK-AZ702K2-6B DISCRETE: CLOSE	RmDmpr6B Close	0	0	0	4	7	FALSE	TRUE	10	23	H-2-131077, SH 1	HS-702K2-6	
MK_702_K2_7AA	MK-AZ702K2-7A DISCRETE: OPEN	RmDmpr7A Open	0	0	0	4	7	FALSE	TRUE	10	24	H-2-131077, SH 1	HS-702K2-7	
MK_702_K2_7AB	MK-AZ702K2-7A DISCRETE: CLOSE	RmDmpr7A Close	0	0	0	4	7	FALSE	TRUE	10	25	H-2-131077, SH 1	HS-702K2-7	
MK_702_K2_7BA	MK-AZ702K2-7B DISCRETE: OPEN	RmDmpr7B Open	0	0	0	4	7	FALSE	TRUE	10	26	H-2-131077, SH 1	HS-702K2-7	
MK_702_K2_7BB	MK-AZ702K2-7B DISCRETE: CLOSE	RmDmpr7B Close	0	0	0	4	7	FALSE	TRUE	10	27	H-2-131077, SH 1	HS-702K2-7	
MK_702_K2_8AA	MK-AZ702K2-8A DISCRETE: OPEN	RmDmpr8A Open	0	0	0	4	7	FALSE	TRUE	21	20	H-2-131077, SH 1	HS-702K2-8	
MK_702_K2_8AB	MK-AZ702K2-8A DISCRETE: CLOSE	RmDmpr8A Close	0	0	0	4	7	FALSE	TRUE	21	21	H-2-131077, SH 1	HS-702K2-8	
MK_702_K2_8BA	MK-AZ702K2-8B DISCRETE: OPEN	RmDmpr8B Open	0	0	0	4	7	FALSE	TRUE	21	22	H-2-131077, SH 1	HS-702K2-8	
MK_702_K2_8BB	MK-AZ702K2-8B DISCRETE: CLOSE	RmDmpr8B Close	0	0	0	4	7	FALSE	TRUE	21	23	H-2-131077, SH 1	HS-702K2-8	
MK_702_K3_2AA	MK-AZ702K3-2A DISCRETE: OPEN	BvDmpr2A Open	0	0	0	4	7	FALSE	TRUE	40	20	H-2-131073, SH 2	HS-702K3-2A	
MK_702_K3_2AB	MK-AZ702K3-2A DISCRETE: CLOSE	BvDmpr2A Close	0	0	0	4	7	FALSE	TRUE	40	21	H-2-131073, SH 2	HS-702K3-2A	
MK_702_K3_2BA	MK-AZ702K3-2B DISCRETE: OPEN	BvDmpr2B Open	0	0	0	4	7	FALSE	TRUE	40	22	H-2-131073, SH 2	HS-702K3-2B	
MK_702_K3_2BB	MK-AZ702K3-2B DISCRETE: CLOSE	BvDmpr2B Close	0	0	0	4	7	FALSE	TRUE	40	23	H-2-131073, SH 2	HS-702K3-2B	
MK_AZ_K1_1AA	MK-AZK1-1A DISCRETE: OPEN	PvDmpr1A Open	0	0	0	4	7	FALSE	TRUE	9	1	H-2-131076, SH 1	HS-AZK1-1A	

Tag Name	Long Description	Desc	Al P	ar Lo	m Hi	Col Lo	or Hi	Desc LO	Desc HI	Qual	Ch	Sh	Tag
TK MK_AZ_K1_1AB	MK-AZK1-1A DISCRETE: CLOSE	PvDmpr1A Clse	0	0	0	4	7	FALSE	TRUE	9	2	H-2-131076, SH 1	HS-AZK1-1A
TK MK_AZ_K1_1BA	MK-AZK1-1B DISCRETE: OPEN	PvDmpr1B Status	0	0	0	4	7	FALSE	TRUE	20	1	H-2-131076, SH 1	HS-AZK1-1B
TK MK_AZ_K1_1BB	MK-AZK1-1B DISCRETE: CLOSE	PvDmpr1B Status	0	0	0	4	7	FALSE	TRUE	20	2	H-2-131076, SH 1	HS-AZK1-1B
TK MK_AZ_K1_2AA	MK-AZK1-2A DISCRETE: OPEN	PvDmpr2A Open	0	0	0	4	7	FALSE	TRUE	9	3	H-2-131076, SH 1	HS-AZK1-2A
TK MK_AZ_K1_2AB	MK-AZK1-2A DISCRETE: CLOSE	PvDmpr2A Clse	0	0	0	4	7	FALSE	TRUE	9	4	H-2-131076, SH 1	HS-AZK1-2A
TK MK_AZ_K1_2BA	MK-AZK1-2B DISCRETE: OPEN	PvDmpr2B Status	0	0	0	4	7	FALSE	TRUE	20	3	H-2-131076, SH 1	HS-AZK1-2B
TK MK_AZ_K1_2BB	MK-AZK1-2B DISCRETE: CLOSE	PvDmpr2B Status	0	0	0	4	7	FALSE	TRUE	20	4	H-2-131076, SH 1	HS-AZK1-2B
TK TMACS_702_1	AY FARM PRIM TK VENT LINES LDA	AyFarm LineLda	0	0	0	4	7	ALARM	NORMAL	31	17		
TK TMACS_702_2	AY FARM RECIRC BLDG LDA	AyFarm BldgLda	0	0	0	4	7	ALARM	NORMAL	31	18		
TK TMACS_702_3	TK-AY-101 PAH/PAL	TkAy101 Press	0	0	0	4	7	ALARM	NORMAL	31	19		
TK TMACS_702_4	TK-AY-102 PAH/PAL	TkAy102 Press	0	0	0	4	7	ALARM	NORMAL	31	20		
TK TMACS_702_5	AZ FARM PRIM TK VENT LINES LDA	AzFarm LineLda	0	0	0	4	7	ALARM	NORMAL	31	21		
TK TMACS_702_6	AZ FARM RECIRC BLDG LDA	AzFarm BldgLda	0	0	0	4	7	ALARM	NORMAL	31	22		
TK TMACS_702_7	CATCH TANK 241-AZ-151 LDA	Az151 LineLda	0	0	0	4	7	ALARM	NORMAL	31	23		
TK TMACS_702_8	TK-AZ-101 PAH/PAL	TKAz101 Press	0	0	0	4	7	ALARM	NORMAL	31	24		
TK TMACS_702_9	TK-AZ-102 PAH/PAL	TKAz102 Press	0	0	0	4	7	ALARM	NORMAL	31	25		
TK TMACS_702_10	PRIM TK VENT STACK RAH/RAX	PvStk Rad	0	0	0	4	7	ALARM	NORMAL	31	26		
TK TMACS_702_11	PRIM TK VENT SMPL SYS PAH/FAL	PvStk SmplFlow	0	0	0	4	7	ALARM	NORMAL	31	27		
TK TMACS_702_12	AZ702 BLDG VENT STACK RAH/RAX	BvStk Rad	0	0	0	4	7	ALARM	NORMAL	31	28	no not working	
TK TMACS_702_13	AZ702 BLDG VENT SMPL SYS PAH/FAL	BvStk SmplFlow	0	0	0	4	7	ALARM	NORMAL	31	29		
TK TMACS_702_14	AZ702 BLDG LDA	AZ702 BldgLda	0	0	0	4	7	ALARM	NORMAL	31	30		
TK TMACS_702_15	TMACS CHANNEL IO 15	Spare	0	0	0	4	7	ALARM	NORMAL	31	31		
TK YS_AZ_K1WD_1A1	MK-AZK1-2A W-D 1A (OPEN INHIBIT)	PvDmpr2AWatchDog	0	0	0	4	7	FALSE	TRUE	6	29	H-2-131076, SH 1	HS-AZK1-2A

Tag Name	Long Description	Desc	Al	ar	m	Col	or	Desc LD	Desc HI	Chc	Chc	Tag	Tag
YS_AZ_K1WD_1A2	MK-AZK1-2A W-D 1A (CLOSURE CMD)	PvDmpr2AWatchDog	0	0	0	7	4	FALSE	TRUE	6	30	H-2-131076, SH 1	HS-AZK1-2A
YS_AZ_K1WD_1B1	MK-AZK1-2B W-D 1B (OPEN INHIBIT)	PvDmpr2BWatchDog	0	0	0	4	7	FALSE	TRUE	17	29	H-2-131076, SH 1	HS-AZK1-2B
YS_AZ_K1WD_1B2	MK-AZK1-2B W-D 1B (CLOSURE CMD)	PvDmpr2BWatchDog	0	0	0	7	4	FALSE	TRUE	17	30	H-2-131076, SH 1	HS-AZK1-2B
YS_AZ_K1WD_2A1	MK-AZK1-2A W-D 2A (OPEN INHIBIT)	PvDmpr2AWatchDog	0	0	0	4	7	FALSE	TRUE	10	1	H-2-131076, SH 1	HS-AZK1-2A
YS_AZ_K1WD_2A2	MK-AZK1-2A W-D 2A (CLOSURE CMD)	PvDmpr2AWatchDog	0	0	0	7	4	FALSE	TRUE	10	2	H-2-131076, SH 1	HS-AZK1-2A
YS_AZ_K1WD_2B1	MK-AZK1-2B W-D 2B (OPEN INHIBIT)	PvDmpr2BWatchDog	0	0	0	4	7	FALSE	TRUE	21	1	H-2-131076, SH 1	HS-AZK1-2B
YS_AZ_K1WD_2B2	MK-AZK1-2B W-D 2B (CLOSURE CMD)	PvDmpr2BWatchDog	0	0	0	7	4	FALSE	TRUE	21	2	H-2-131076, SH 1	HS-AZK1-2B
YS_RCM_A13_1	RCM-A-13 K-A DISCRETE	Rcm-A13 Status	0	0	0	4	7	FALSE	TRUE	13	32		
YS_RCM_A14_1	RCM-A-14 K-A DISCRETE	Rcm-A14 Status	0	0	0	4	7	FALSE	TRUE	14	32		
YS_RCM_A2_1	RCM-A-2 K-A DISCRETE	Rcm-A2 Status	0	0	0	4	7	FALSE	TRUE	2	32		
YS_RCM_A3_1	RCM-A-3 K-A DISCRETE	Rcm-A3 Status	0	0	0	4	7	FALSE	TRUE	3	32		
YS_RCM_D17_1	RCM-D-17 K-A DISCRETE	Rcm-D17 Status	0	0	0	4	7	FALSE	TRUE	17	32		
YS_RCM_D18_1	RCM-D-18 K-A DISCRETE	Rcm-D18 Status	0	0	0	4	7	FALSE	TRUE	18	32		
YS_RCM_D6_1	RCM-D-6 K-A DISCRETE	Rcm-D6 Status	0	0	0	4	7	FALSE	TRUE	6	32		
YS_RCM_D7_1	RCM-D-7 K-A DISCRETE	Rcm-D7 Status	0	0	0	4	7	FALSE	TRUE	7	32		
YS_RCM_DR10_1	RCM-DR-10 K-A DISCRETE	Rcm-Dr10 Status	0	0	0	4	7	FALSE	TRUE	10	32		
YS_RCM_DR20_1	RCM-DR-20 K-A DISCRETE	Rcm-Dr20 Status	0	0	0	4	7	FALSE	TRUE	20	32		
YS_RCM_DR21_1	RCM-DR-21 K-A DISCRETE	Rcm-Dr21 Status	0	0	0	4	7	FALSE	TRUE	21	32		
YS_RCM_DR9_1	RCM-DR-9 K-A DISCRETE	Rcm-Dr9 Status	0	0	0	4	7	FALSE	TRUE	9	32		
_702_K26_1A	AZ702-K2-6-1 DISCRETE: ON	BldgAc On	0	0	0	4	7	FALSE	TRUE	40	1	H-2-131073, SH 1	HS-702K26-1
_702_K26_1B	AZ702-K2-6-1 DISCRETE: OFF	BldgAc Off	0	0	0	4	7	FALSE	TRUE	40	2	H-2-131073, SH 1	HS-702K26-1

Tag Name	Long Description	Desc	Al	ar	im	Col	OR	DESCALO	Desc Hi	Opn	On	Ratio	Tag
_702___K35_1AA	AZ702-K3-5-1A DISCRETE: START	BvFanA Start	0	0	0	4	7	FALSE	TRUE	40	15	H-2-131073, SH 2	HS-702K35-1A
_702___K35_1AB	AZ702-K3-5-1A DISCRETE: STOP	BvFanA Stop	0	0	0	4	7	FALSE	TRUE	40	16	H-2-131073, SH 2	HS-702K35-1A
_702___K35_1BA	AZ702-K3-5-1B DISCRETE: START	BvFanB Start	0	0	0	4	7	FALSE	TRUE	40	17	H-2-131073, SH 2	HS-702K35-1B
_702___K35_1BB	AZ702-K3-5-1B DISCRETE: STOP	BvFanB Stop	0	0	0	4	7	FALSE	TRUE	40	18	H-2-131073, SH 2	HS-702K35-1B

ATTACHMENT "G"

MASTER ALARM POINTS LISTING

	Page Name	Description	Unit Size	Range Min	Range Max	P	Inch	In	ToB	ToC	ToD	ToE	ToF	ToG	ToH	ToI	ToJ	ToK	ToL	ToM	ToN	ToO	ToP	ToQ	ToR	ToS	ToT	ToU	ToV	ToW	ToX	ToY	ToZ	ToAA	ToAB	ToAC	ToAD	ToAE	ToAF	ToAG	ToAH	ToAI	ToAJ	ToAK	ToAL	ToAM	ToAN	ToAO	ToAP	ToAQ	ToAR	ToAS	ToAT	ToAU	ToAV	ToAW	ToAX	ToAY	ToAZ	ToBA	ToBB	ToBC	ToBD	ToBE	ToBF	ToBG	ToBH	ToBI	ToBJ	ToBK	ToBL	ToBM	ToBN	ToBO	ToBP	ToBQ	ToBR	ToBS	ToBT	ToBU	ToBV	ToBW	ToBX	ToBY	ToBZ	ToCA	ToCB	ToCC	ToCD	ToCE	ToCF	ToCG	ToCH	ToCI	ToCJ	ToCK	ToCL	ToCM	ToCN	ToCO	ToCP	ToCQ	ToCR	ToCS	ToCT	ToCU	ToCV	ToCW	ToCX	ToCY	ToCZ	ToDA	ToDB	ToDC	ToDD	ToDE	ToDF	ToDG	ToDH	ToDI	ToDJ	ToDK	ToDL	ToDM	ToDN	ToDO	ToDP	ToDQ	ToDR	ToDS	ToDT	ToDU	ToDV	ToDW	ToDX	ToDY	ToDZ	ToEA	ToEB	ToEC	ToED	ToEE	ToEF	ToEG	ToEH	ToEI	ToEJ	ToEK	ToEL	ToEM	ToEN	ToEO	ToEP	ToEQ	ToER	ToES	ToET	ToEU	ToEV	ToEW	ToEX	ToEY	ToEZ	ToFA	ToFB	ToFC	ToFD	ToFE	ToFF	ToFG	ToFH	ToFI	ToFJ	ToFK	ToFL	ToFM	ToFN	ToFO	ToFP	ToFQ	ToFR	ToFS	ToFT	ToFU	ToFV	ToFW	ToFX	ToFY	ToFZ	ToGA	ToGB	ToGC	ToGD	ToGE	ToGF	ToGG	ToGH	ToGI	ToGJ	ToGK	ToGL	ToGM	ToGN	ToGO	ToGP	ToGQ	ToGR	ToGS	ToGT	ToGU	ToGV	ToGW	ToGX	ToGY	ToGZ	ToHA	ToHB	ToHC	ToHD	ToHE	ToHF	ToHG	ToHH	ToHI	ToHJ	ToHK	ToHL	ToHM	ToHN	ToHO	ToHP	ToHQ	ToHR	ToHS	ToHT	ToHU	ToHV	ToHW	ToHX	ToHY	ToHZ	ToIA	ToIB	ToIC	ToID	ToIE	ToIF	ToIG	ToIH	ToII	ToIJ	ToIK	ToIL	ToIM	ToIN	ToIO	ToIP	ToIQ	ToIR	ToIS	ToIT	ToIU	ToIV	ToIW	ToIX	ToIY	ToIZ	ToJA	ToJB	ToJC	ToJD	ToJE	ToJF	ToJG	ToJH	ToJI	ToJJ	ToJK	ToJL	ToJM	ToJN	ToJO	ToJP	ToJQ	ToJR	ToJS	ToJT	ToJU	ToJV	ToJW	ToJX	ToJY	ToJZ	ToKA	ToKB	ToKC	ToKD	ToKE	ToKF	ToKG	ToKH	ToKI	ToKJ	ToKK	ToKL	ToKM	ToKN	ToKO	ToKP	ToKQ	ToKR	ToKS	ToKT	ToKU	ToKV	ToKW	ToKX	ToKY	ToKZ	ToLA	ToLB	ToLC	ToLD	ToLE	ToLF	ToLG	ToLH	ToLI	ToLJ	ToLK	ToLL	ToLM	ToLN	ToLO	ToLP	ToLQ	ToLR	ToLS	ToLT	ToLU	ToLV	ToLW	ToLX	ToLY	ToLZ	ToMA	ToMB	ToMC	ToMD	ToME	ToMF	ToMG	ToMH	ToMI	ToMJ	ToMK	ToML	ToMN	ToMO	ToMP	ToMQ	ToMR	ToMS	ToMT	ToMU	ToMV	ToMW	ToMX	ToMY	ToMZ	ToNA	ToNB	ToNC	ToND	ToNE	ToNF	ToNG	ToNH	ToNI	ToNJ	ToNK	ToNL	ToNM	ToNO	ToNP	ToNQ	ToNR	ToNS	ToNT	ToNU	ToNV	ToNW	ToNX	ToNY	ToNZ	ToOA	ToOB	ToOC	ToOD	ToOE	ToOF	ToOG	ToOH	ToOI	ToOJ	ToOK	ToOL	ToOM	ToON	ToOO	ToOP	ToOQ	ToOR	ToOS	ToOT	ToOU	ToOV	ToOW	ToOX	ToOY	ToOZ	ToPA	ToPB	ToPC	ToPD	ToPE	ToPF	ToPG	ToPH	ToPI	ToPJ	ToPK	ToPL	ToPM	ToPN	ToPO	ToPP	ToPQ	ToPR	ToPS	ToPT	ToPU	ToPV	ToPW	ToPX	ToPY	ToPZ	ToQA	ToQB	ToQC	ToQD	ToQE	ToQF	ToQG	ToQH	ToQI	ToQJ	ToQK	ToQL	ToQM	ToQN	ToQO	ToQP	ToQQ	ToQR	ToQS	ToQT	ToQU	ToQV	ToQW	ToQX	ToQY	ToQZ	ToRA	ToRB	ToRC	ToRD	ToRE	ToRF	ToRG	ToRH	ToRI	ToRJ	ToRK	ToRL	ToRM	ToRN	ToRO	ToRP	ToRQ	ToRR	ToRS	ToRT	ToRU	ToRV	ToRW	ToRX	ToRY	ToRZ	ToSA	ToSB	ToSC	ToSD	ToSE	ToSF	ToSG	ToSH	ToSI	ToSJ	ToSK	ToSL	ToSM	ToSN	ToSO	ToSP	ToSQ	ToSR	ToSS	ToST	ToSU	ToSV	ToSW	ToSX	ToSY	ToSZ	ToTA	ToTB	ToTC	ToTD	ToTE	ToTF	ToTG	ToTH	ToTI	ToTJ	ToTK	ToTL	ToTM	ToTN	ToTO	ToTP	ToTQ	ToTR	ToTS	ToTT	ToTU	ToTV	ToTW	ToTX	ToTY	ToTZ	ToUA	ToUB	ToUC	ToUD	ToUE	ToUF	ToUG	ToUH	ToUI	ToUJ	ToUK	ToUL	ToUM	ToUN	ToUO	ToUP	ToUQ	ToUR	ToUS	ToUT	ToUU	ToUV	ToUW	ToUX	ToUY	ToUZ	ToVA	ToVB	ToVC	ToVD	ToVE	ToVF	ToVG	ToVH	ToVI	ToVJ	ToVK	ToVL	ToVM	ToVN	ToVO	ToVP	ToVQ	ToVR	ToVS	ToVT	ToVU	ToVV	ToVW	ToVX	ToVY	ToVZ	ToWA	ToWB	ToWC	ToWD	ToWE	ToWF	ToWG	ToWH	ToWI	ToWJ	ToWK	ToWL	ToWM	ToWN	ToWO	ToWP	ToWQ	ToWR	ToWS	ToWT	ToWU	ToWV	ToWW	ToWX	ToWY	ToWZ	ToXA	ToXB	ToXC	ToXD	ToXE	ToXF	ToXG	ToXH	ToXI	ToXJ	ToXK	ToXL	ToXM	ToXN	ToXO	ToXP	ToXQ	ToXR	ToXS	ToXT	ToXU	ToXV	ToXW	ToXX	ToXY	ToXZ	ToYA	ToYB	ToYC	ToYD	ToYE	ToYF	ToYG	ToYH	ToYI	ToYJ	ToYK	ToYL	ToYM	ToYN	ToYO	ToYP	ToYQ	ToYR	ToYS	ToYT	ToYU	ToYV	ToYW	ToYX	ToYY	ToYZ	ToZA	ToZB	ToZC	ToZD	ToZE	ToZF	ToZG	ToZH	ToZI	ToZJ	ToZK	ToZL	ToZM	ToZN	ToZO	ToZP	ToZQ	ToZR	ToZS	ToZT	ToZU	ToZV	ToZW	ToZX	ToZY	ToZZ
100	FL702_K3_1	BV STK MONITOR SAMPLE FLOW	SCFM	0.00	2.00	99,999.99	0	99,999.99	0	99,999.99	0	0.25	2	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99																																																																																																																																																																																																																																																																																																																																																							

Tag Name	Desc	Units	Range Lo	Range Hi	Max	Min	High	Low	Min	Max	High	Low	Min	Max	High	Low	Min	Max
PDI_AY2_K48_1	AY102-K4-8-1 DELTA P	IN WC	0.00	20.00	99,999.99	0	99,999.99	0	15.00	3	2.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ1_K45_1	AZ101-K4-5-1 DELTA P	IN WC	0.00	25.00	99,999.99	0	20.00	2	10.00	3	2.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ1_K48_1	AZ101-K4-8-1 DELTA P	IN WC	0.00	20.00	99,999.99	0	99,999.99	0	15.00	3	2.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ2_K45_1	AZ102-K4-5-1 DELTA P	IN WC	0.00	25.00	99,999.99	0	20.00	2	10.00	3	2.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ2_K48_1	AZ102-K4-8-1 DELTA P	IN WC	0.00	20.00	99,999.99	0	99,999.99	0	15.00	3	2.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K110_1A	AZ-K1-10-1A DELTA P	IN WC	0.00	5.00	99,999.99	0	99,999.99	0	1.50	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K110_1B	AZ-K1-10-1B DELTA P	IN WC	0.00	5.00	99,999.99	0	99,999.99	0	1.50	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K14_1A	AZ-K1-4-1A DELTA P	IN WC	0.00	6.00	99,999.99	0	5.00	2	3.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K14_1B	AZ-K1-4-1B DELTA P	IN WC	0.00	6.00	99,999.99	0	5.00	2	3.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K14_2A	AZ-K1-4-2A DELTA P	IN WC	0.00	6.00	99,999.99	0	5.00	2	3.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K14_2B	AZ-K1-4-2B DELTA P	IN WC	0.00	6.00	99,999.99	0	5.00	2	3.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K18_1	AZ-K1-8-1 VAPOR DELTA P	IN WC	0.00	20.00	99,999.99	0	99,999.99	0	5.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_K19_1	AZ-K1-9-1 VAPOR DELTA P	IN WC	0.00	10.00	99,999.99	0	99,999.99	0	5.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PDI_AZ_RWF_1	AZ-RW-F-1 DELTA P	PSID	0.00	10.00	99,999.99	0	99,999.99	0	9.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
PI_AZ_RW_1	2" RW-AZ401-M5 PRESSURE	PSI	0.00	100.00	99,999.99	0	99,999.99	0	99,999.99	0	20.00	1	-9,999.99	0	-9,999.99	0	-9,999.99	0
PI_AY1_K1_1	TK-AY-101 PRESSURE	IN WC	-6.00	4.00	99,999.99	0	0.00	1	-0.50	2	-3.50	1	-4.00	1	-9,999.99	0	-9,999.99	0
PI_AY2_K1_1	TK-AY-102 PRESSURE	IN WC	-6.00	4.00	99,999.99	0	0.00	1	-0.50	2	-3.50	1	-4.00	1	-9,999.99	0	-9,999.99	0
PI_AZ1_K1_1	TK-AZ-101 PRESSURE	IN WC	-6.00	4.00	99,999.99	0	0.00	1	-0.50	2	-3.50	1	-4.00	1	-9,999.99	0	-9,999.99	0
PI_AZ2_K1_1	TK-AZ-102 PRESSURE	IN WC	-6.00	4.00	99,999.99	0	0.00	1	-0.50	2	-3.50	1	-4.00	1	-9,999.99	0	-9,999.99	0
PI_AZ_K1_1A	10" V-AZ103-M9 PRESSURE	IN WC	-35.00	0.00	99,999.99	0	99,999.99	0	-10.00	3	-32.00	3	-9,999.99	0	-37.00	3	-9,999.99	0
PI_AZ_K1_1B	10" V-AZ102-M9 PRESSURE	IN WC	-35.00	0.00	99,999.99	0	99,999.99	0	-10.00	3	-32.00	3	-9,999.99	0	-37.00	3	-9,999.99	0
RI_702_K3_1	BV STACK RADIATION	aCi/L	0.10	0.000.00	99,999.99	0	99,999.99	0	99,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
RI_AZ_K1_1	PV STACK RADIATION	pCi/L	0.10	0.000.00	99,999.99	0	99,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
RI_AZ_K19_1	AZ-K1-9-1 RADIATION	R/Hr	0.00	100.00	99,999.99	0	99,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_702_K2_1	STACK MONITOR ROOM TEMP	DEG F	-20.00	150.00	99,999.99	0	110.00	2	90.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_702_K2_2	E/I ROOM A TEMP	DEG F	-20.00	150.00	99,999.99	0	110.00	2	90.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_702_K2_3	E/I ROOM B TEMP	DEG F	-20.00	150.00	99,999.99	0	110.00	2	90.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_702_K2_4	PV FLTR ROOM A TEMP	DEG F	-20.00	150.00	99,999.99	0	110.00	2	90.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_702_K2_5	PV FLTR ROOM B TEMP	DEG F	-20.00	150.00	99,999.99	0	110.00	2	90.00	3	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0
TI_AZ_K12_1A	AZ-K1-2-1A INLET TEMP	DEG F	0.00	250.00	99,999.99	0	99,999.99	0	200.00	2	-9,999.99	0	-9,999.99	0	-9,999.99	0	-9,999.99	0

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Tag Name	Desc	Units	Range Lo	Range Hi	Max	Min	SP	CO	DO	DP	DP	DP
TI_AZ_K12_1B	AZ-K1-2-1B INLET TEMP	DEG F	0.00	250.00	99,999.99	0	99,999.99	0	200.00	2	-9,999.99	0
TI_AZ_K12_2A	AZ-K1-2-1A OUTLET TEMP	DEG F	0.00	250.00	99,999.99	0	230.00	2	200.00	2	-9,999.99	0
TI_AZ_K12_2B	AZ-K1-2-1B OUTLET TEMP	DEG F	0.00	250.00	99,999.99	0	230.00	2	200.00	2	-9,999.99	0
TI_AZ_K12_3A	AZ-K1-1A OUTLET TEMP	DEG F	0.00	250.00	99,999.99	0	99,999.99	0	230.00	2	-9,999.99	0
TI_AZ_K12_3B	AZ-K1-1B OUTLET TEMP	DEG F	0.00	250.00	99,999.99	0	99,999.99	0	230.00	2	-9,999.99	0

Tag Name	Long Description	Desc	Al P	Ar Lo	S Hi	Co Lo	Op Hi	Desc-Lo	Desc-Hi	Unit	CS	Yr 1	Yr 2
TKU PDAH_702K24_1	AZ702-K3-4-1 DELTA P HI	K2Hepa1 Dp	2	0	1	2	3	NORMAL	HIGH	35		H-2-131073, SH 1	PDI-702K24-1
TKU PDAH_702K24_2	AZ702-K3-4-2 DELTA P HI	K2Hepa2 Dp	2	0	1	2	3	NORMAL	HIGH	35		H-2-131073, SH 1	PDI-702K24-2
TKU PDAH_702K2_7	AZ702 BLDG ZONE I/II DELTA P HI	E/iRmA Dp	3	0	1	2	7	NORMAL	HIGH	35		H-2-131073, SH 1	PDI-702K2-7
TKU PDAH_702K2_8	AZ702 BLDG ZONE II/IV DELTA P HI	E/iRmB Dp	3	0	1	2	7	NORMAL	HIGH	35		H-2-131073, SH 1	PDI-702K2-8
TKU PDAL_702K2_1	STK MON RM DELTA P LO	StkMonRm Dp	3	0	1	2	7	NORMAL	LOW	35		H-2-131073, SH 1	PDI-702K2-1
TKU PDAL_702K2_2	PV FLTR ROOM A DELTA P LO	E/iRmA Dp	3	0	1	2	7	NORMAL	LOW	35		H-2-131073, SH 1	PDIC-702K2-2
TKU PDAL_702K2_3	PV FLTR ROOM B DELTA P LO	E/iRmB Dp	3	0	1	2	7	NORMAL	LOW	35		H-2-131073, SH 1	PDIC-702K2-3
TKU PDAL_702K2_7	AZ702 BLDG ZONE I/II DELTA P LO	ZnI/II Dp	2	0	1	2	3	NORMAL	LOW	35		H-2-131073, SH 1	PDI-702K2-7
TKU PDAL_702K2_8	AZ702 BLDG ZONE II/IV DELTA P LO	ZnII/IV Dp	2	0	1	2	3	NORMAL	LOW	35		H-2-131073, SH 1	PDI-702K2-8
PDAL_702K3_1	PV CELL DELTA P LO	Cell Dp	3	0	1	2	7	NORMAL	LOW	36		H-2-131073, SH 1	PDIC-702K3-1
XA_RCM_A13_1	RCMA-13 STATUS	Rcm-A13 Status	2	1	0	3	2	OFF LINE	ON LINE	12			
XA_RCM_A14_1	RCMA-14 STATUS	Rcm-A14 Status	2	1	0	3	2	OFF LINE	ON LINE	12			
XA_RCM_A2_1	RCMA-2 STATUS	Rcm-A2 Status	2	1	0	3	2	OFF LINE	ON LINE	1			
XA_RCM_A3_1	RCMA-3 STATUS	Rcm-A3 Status	2	1	0	3	2	OFF LINE	ON LINE	1			
XA_RCM_D17_1	RCMD-17 STATUS	Rcm-D17 Status	2	1	0	3	2	OFF LINE	ON LINE	12			
XA_RCM_D18_1	RCMD-18 STATUS	Rcm-D18 Status	2	1	0	3	2	OFF LINE	ON LINE	12			
XA_RCM_D6_1	RCMD-6 STATUS	Rcm-D6 Status	2	1	0	3	2	OFF LINE	ON LINE	1			
XA_RCM_D7_1	RCMD-7 STATUS	Rcm-D7 Status	2	1	0	3	2	OFF LINE	ON LINE	1			

Tag Name	Long Description	Desc	AL	LC	HL	LO	HL	Desc	LC	HL	LO	HL	Desc	LC	HL	LO	HL
XA_RCM_DR10_1	RCMDR-10 STATUS	Rcm-Dr10 Status	2	1	0	3	2	OFF LINE	ON LINE	1							
XA_RCM_DR20_1	RCMDR-20 STATUS	Rcm-Dr20 Status	2	1	0	3	2	OFF LINE	ON LINE	12							
XA_RCM_DR21_1	RCMDR-21 STATUS	Rcm-Dr21 Status	2	1	0	3	2	OFF LINE	ON LINE	12							
XA_RCM_DR9_1	RCMDR-9 STATUS	Rcm-Dr9 Status	2	1	0	3	2	OFF LINE	ON LINE	1							
XA_U32_12_1	U32-12 STATUS	U32-12 Status	2	1	0	3	2	OFF LINE	ON LINE	12							
XA_U32_1_1	U32-1 STATUS	U32-1 Status	2	1	0	3	2	OFF LINE	ON LINE	1							
YA_702_K26_1	AZ702-K2-6-1 FAULT	BldgAc Status	2	0	1	2	3	NORMAL	FAULT	40			H-2-131073, SH 1			HS-702K26-1	
YA_702_K35_1A	AZ702-K3-5-1A FAULT	BvFanA Status	2	0	1	2	3	NORMAL	FAULT	40			H-2-131073, SH 2			HS-702K35-1A	
YA_702_K35_1AA	AZ702-K3-5-1A STANDBY FAULT	BvFan1A Status	2	0	1	2	3	NORMAL	NO STDBY	40			H-2-131073, SH 2			HS-702K3-1A	
YA_702_K35_1B	AZ702-K3-5-1B FAULT	BvFanB Status	2	0	1	2	3	NORMAL	FAULT	40			H-2-131073, SH 2			HS-702K35-1B	
YA_702_K35_1BA	AZ702-K3-5-1B STANDBY FAULT	BvFan1B Status	2	0	1	2	3	NORMAL	NO STDBY	40			H-2-131073, SH 2			HS-702K3-1B	
YA_702_K3_1M	BV MACRO FAULT	K3Macro Status	3	0	1	2	7	NORMAL	FAULT	34							
YA_AY1_EWP_1A	AY101-EW-P-1A FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	FAULT	49			H-2-131067, SH 1			HS-AY1EWP-1A	
YA_AY1_EWP_1AA	AY101-EW-P-1A STANDBY FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	NO STDBY	49			H-2-131067, SH 1			HS-AY1EWP-1A	
YA_AY1_EWP_1B	AY101-EW-P-1B FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	FAULT	49			H-2-131067, SH 1			HS-AY1EWP-1B	
YA_AY1_EWP_1BA	AY101-EW-P-1B STANDBY FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	NO STDBY	49			H-2-131067, SH 1			HS-AY1EWP-1B	
YA_AY1_EWSP_1	AY101-EW-SP-1 FAULT	EwSpPump Status	2	0	1	2	3	NORMAL	FAULT	49			H-2-131067, SH 1			HS-AY1EWSP-1	
YA_AY1_EWT_1	AY101-EW-T-1 FAULT	EwTower Status	2	0	1	2	3	NORMAL	FAULT	49			H-2-131067, SH 1			HS-AY1EWT-1	

Tag Name	Long Description	Desc	Al ID	LC	Hi	Lo	OF Hi	Deac-Lo	Deac-Hi	Unit	2	Alarm	Tag
YA_AY1_K45_1	AY101-K4-5-1 FAULT	RrcrFan Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131062, SH 1	HS-AY1K45-1
YA_AY1_K4_1M	AY1 MACRO FAULT	Ay1Macro Status	3	0	1	2	7	NORMAL	FAULT	34			
YA_AY2_EWP_1A	AY102-EW-P-1A FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131068, SH 1	HS-AY2EWP-1A
YA_AY2_EWP_1AA	AY102-EW-P-1A STANDBY FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	NO STDBY	49		H-2-131068, SH 1	HS-AY2EWP-1A
YA_AY2_EWP_1B	AY101-EW-P-1B FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131068, SH 1	HS-AY2EWP-1B
YA_AY2_EWP_1BA	AY102-EW-P-1B STANDBY FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	NO STDBY	49		H-2-131068, SH 1	HS-AY2EWP-1B
YA_AY2_EWSP_1	AY102-EW-SP-1 FAULT	EwSpPump Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131068, SH 1	HS-AY2EWSP-1
YA_AY2_EWT_1	AY102-EW-T-1 FAULT	EwTower Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131068, SH 1	HS-AY2EWT-1
YA_AY2_K45_1	AY102-K4-5-1 FAULT	RrcrFan Status	2	0	1	2	3	NORMAL	FAULT	49		H-2-131063, SH 1	HS-AY2K45-1
YA_AY2_K4_1M	AY2 MACRO FAULT	Ay2Macro Status	3	0	1	2	7	NORMAL	FAULT	34			
YA_AZ1_EWP_1A	AZ101-EW-P-1A FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131069, SH 1	HS-AZ1EWP-1A
YA_AZ1_EWP_1AA	AZ101-EW-P-1A STANDBY FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	NO STDBY	54		H-2-131069, SH 1	HS-AZ1EWP-1A
YA_AZ1_EWP_1B	AZ101-EW-P-1B FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131069, SH 1	HS-AZ1EWP-1B
YA_AZ1_EWP_1BA	AZ101-EW-P-1B STANDBY FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	NO STDBY	54		H-2-131069, SH 1	HS-AZ1EWP-1B
YA_AZ1_EWSP_1	AZ101-EW-SP-1 FAULT	EwSpPump Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131069, SH 1	HS-AZ1EWSP-1
YA_AZ1_EWT_1	AZ101-EW-T-1 FAULT	EwTower Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131069, SH 1	HS-AZ1EWT-1
YA_AZ1_K45_1	AZ101-K4-5-1 FAULT	RrcrFan Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131064, SH 1	HS-AZ1K45-1

Tag Name	Long Description	Desc	Al	Ar	Hi	Col	On	Rel	Rel	Rel	Rel	Rel	Rel	Rel	Rel	Rel
YA_AZ1_K4_1M	AZ1 MACRO FAULT	Az1Macro Status	3	0	1	2	7	NORMAL	FAULT	23						
YA_AZ2_EWP_1A	AZ102-EW-P-1A FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131070, SH	1	HS-AZ2EWP-1A		
YA_AZ2_EWP_1AA	AZ102-EW-P-1A STANDBY FAULT	EwPump1A Status	2	0	1	2	3	NORMAL	NO STDBY	54		H-2-131070, SH	1	HS-AZ2EWP-1A		
YA_AZ2_EWP_1B	AZ102-EW-P-1B FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131070, SH	1	HS-AZ2EWP-1B		
YA_AZ2_EWP_1BA	AZ102-EW-P-1B STANDBY FAULT	EwPump1B Status	2	0	1	2	3	NORMAL	NO STDBY	54		H-2-131070, SH	1	HS-AZ2EWP-1B		
YA_AZ2_EWSP_1	AZ102-EW-SP-1 FAULT	EwSpPump Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131070, SH	1	HS-AZ2EWSP-1		
YA_AZ2_EWT_1	AZ102-EW-T-1 FAULT	EwTower Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131070, SH	1	HS-AZ2EWT-1		
YA_AZ2_K45_1	AZ102-K4-5-1 FAULT	RrcrFan Status	2	0	1	2	3	NORMAL	FAULT	54		H-2-131065, SH	1	HS-AZ2K45-1		
YA_AZ2_K4_1M	AZ2 MACRO FAULT	Az2Macro Status	3	0	1	2	7	NORMAL	FAULT	23						
YA_AZ_CWP_1A	AZ-CW-P-1A FAULT	CwPump1A Status	2	0	1	2	3	NORMAL	FAULT	31		H-2-131071, SH	1	HS-AZCWP-1A		
YA_AZ_CWP_1AA	AZ-CW-P-1A STANDBY FAULT	CwPump1A Status	2	0	1	2	3	NORMAL	NO STDBY	31		H-2-131071, SH	1	HS-AZCWP-1A		
YA_AZ_CWP_1B	AZ-CW-P-1B FAULT	CwPump1B Status	2	0	1	2	3	NORMAL	FAULT	31		H-2-131071, SH	1	HS-AZCWP-1B		
YA_AZ_CWP_1BA	AZ-CW-P-1B STANDBY FAULT	CwPump1B Status	2	0	1	2	3	NORMAL	NO STDBY	31		H-2-131071, SH	1	HS-AZCWP-1B		
YA_AZ_CWR_1	AZ-CW-R-1 FAULT	Chiller Status	2	0	1	2	3	NORMAL	FAULT	31		H-2-131071, SH	1	HS-AZCWR-1		
YA_AZ_K12_1A	AZ-K1-2-1A FAULT	PvHtr1A Status	2	0	1	2	3	NORMAL	FAULT	1		H-2-131076, SH	1	HS-AZK12-1A		
YA_AZ_K12_1AA	AZ-K1-2-1A STANDBY FAULT	PvHtr1A Status	2	0	1	2	3	NORMAL	NO STDBY	1		H-2-131076, SH	1	HS-AZK12-1A		
YA_AZ_K12_1B	AZ-K1-2-1B FAULT	PvHtr1B Status	2	0	1	2	3	NORMAL	FAULT	12		H-2-131076, SH	1	HS-AZK12-1B		

Tag Name	Loop Description	Desc	Al P	AZ L	Al H	Al L	OR H	Desc	Desc-H	Al L	Al H	Al L	Al H
YA_AZ_K12_1BA	AZ-K1-2-1B STANDBY FAULT	PvHtr1B Status	2	0	1	2	3	NORMAL	NO STDBY	12		H-2-131076, SH 1	HS-A2K12-1B
YA_AZ_K15_1A	AZ-K1-5-1A FAULT	PvFan1A Status	2	0	1	2	3	NORMAL	FAULT	1		H-2-131076, SH 1	HS-A2K15-1A
YA_AZ_K15_1AA	AZ-K1-5-1A STANDBY FAULT	PvFan1A Status	2	0	1	2	3	NORMAL	NO STDBY	1		H-2-131076, SH 1	HS-A2K15-1A
YA_AZ_K15_1B	AZ-K1-5-1B FAULT	PvFan1B Status	2	0	1	2	3	NORMAL	FAULT	12		H-2-131076, SH 1	HS-A2K15-1B
YA_AZ_K15_1BA	AZ-K1-5-1B STANDBY FAULT	PvFan1B Status	2	0	1	2	3	NORMAL	NO STDBY	12		H-2-131076, SH 1	HS-A2K15-1B
YA_AZ_K1_1AR	PV RESTART 1AR FAULT	PvRstrtA Status	2	0	1	2	3	NORMAL	FAULT	1			
YA_AZ_K1_1BR	PV RESTART 1BR FAULT	PvRstrtB Status	2	0	1	2	3	NORMAL	FAULT	12			
YA_AZ_K1_1M	PV MACRO FAULT	PvMacro Status	3	0	1	2	7	NORMAL	FAULT	1			
YA_RCM_A13_1	RCMA-13 FB FAULT	RcmA13 FBusVer	2	0	1	2	3	NORMAL	FAULT	12			
YA_RCM_A14_1	RCMA-14 FB FAULT	RcmA14 FBusVer	2	0	1	2	3	NORMAL	FAULT	12			
YA_RCM_A24_1	RCMA-24 FB FAULT	RcmA2 FBusVer	2	0	1	2	3	NORMAL	FAULT	23			
YA_RCM_A2_1	RCMA-2 FB FAULT	RcmA2 FBusVer	2	0	1	2	3	NORMAL	FAULT	1			
YA_RCM_A35_1	RCMA-35 FB FAULT	RcmA35 FBusVer	2	0	1	2	3	NORMAL	FAULT	34			
YA_RCM_A36_1	RCMA-36 FB FAULT	RcmA36 FBusVer	2	0	1	2	3	NORMAL	FAULT	34			
YA_RCM_A3_1	RCMA-3 FB FAULT	RcmA3 FBusVer	2	0	1	2	3	NORMAL	FAULT	1			
YA_RCM_A46_1	RCMA-46 FB FAULT	RcmA46 FBusVer	2	0	1	2	3	NORMAL	FAULT	34			
YA_RCM_A51_1	RCMA-51 FB FAULT	RcmA51 FBusVer	2	0	1	2	3	NORMAL	FAULT	23			
YA_RCM_D17_1	RCMD-17 FB FAULT	RcmD17 FBusVer	2	0	1	2	3	NORMAL	FAULT	12			
YA_RCM_D18_1	RCMD-18 FB FAULT	RcmD18 FBusVer	2	0	1	2	3	NORMAL	FAULT	12			
YA_RCM_D28_1	RCMD-28 FB FAULT	RcmD28 FBusVer	2	0	1	2	3	NORMAL	FAULT	23			
YA_RCM_D39_1	RCMD-39 FB FAULT	RcmD39 FBusVer	2	0	1	2	3	NORMAL	FAULT	34			

Item #	Item Description	Desc	Alt	Loc	Bus	Col	Port	Status	Detail	Value	Unit	Notes
YA_RCM_D47_1	RCMD-47 FB FAULT	RcmD47 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		Abandon sw place N/A
YA_RCM_D48_1	RCMD-48 FB FAULT	RcmD48 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		
YA_RCM_D52_1	RCMD-52 FB FAULT	RcmD52 FBusVer	2	0	1	2	3	NORMAL	FAULT	23		
YA_RCM_D53_1	RCMD-53 FB FAULT	RcmD53 FBusVer	2	0	1	2	3	NORMAL	FAULT	23		
YA_RCM_D6_1	RCMD-6 FB FAULT	RcmD6 FBusVer	2	0	1	2	3	NORMAL	FAULT	1		
YA_RCM_D7_1	RCMD-7 FB FAULT	RcmD7 FBusVer	2	0	1	2	3	NORMAL	FAULT	1		Abandon sw place N/A
YA_RCM_DR10_1	RCMDR-10 FB FAULT	RcmDr10 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		
YA_RCM_DR20_1	RCMDR-20 FB FAULT	RcmDr20 FBusVer	2	0	1	2	3	NORMAL	FAULT	12		
YA_RCM_DR21_1	RCMDR-21 FB FAULT	RcmDr21 FBusVer	2	0	1	2	3	NORMAL	FAULT	12		
YA_RCM_DR31_1	RCMDR-31 FB FAULT	RcmDr31 FBusVer	2	0	1	2	3	NORMAL	FAULT	23		
YA_RCM_DR40_1	RCMDR-40 FB FAULT	RcmDr40 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		Abandon sw place N/A
YA_RCM_DR49_1	RCMDR-49 FB FAULT	RcmDr49 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		
YA_RCM_DR54_1	RCMDR-54 FB FAULT	RcmDr54 FBusVer	2	0	1	2	3	NORMAL	FAULT	23		
YA_RCM_DR9_1	RCMDR-9 FB FAULT	RcmDr9 FBusVer	2	0	1	2	3	NORMAL	FAULT	1		
YA_RCM_F45_1	RCMF-45 FB FAULT	RcmF45 FBusVer	2	0	1	2	3	NORMAL	FAULT	34		
YA_RCM_F50_1	RCMF-50 FB FAULT	RcmF50 FBusVer	2	0	1	2	3	NORMAL	FAULT	23		Abandon sw place N/A
YA_U32_12_1	U32-12 COMM FAULT	U3212CommVer	2	0	1	2	3	NORMAL	FAULT	1		
YA_U32_12_20	RCMDR-20 FB FAULT	RcmDr20 FBusVer	2	0	1	2	3	NORMAL	FAULT	20		
YA_U32_12_21	RCMDR-21 FB FAULT	RcmDr21 FBusVer	2	0	1	2	3	NORMAL	FAULT	21		
YA_U32_1_1	U32-1 COMM FAULT	U321 CommVer	2	0	1	2	3	NORMAL	FAULT	12		
YA_U32_1_10	RCMDR-10 FB FAULT	RcmDr10 FBusVer	2	0	1	2	3	NORMAL	FAULT	10		Abandon sw place N/A
YA_U32_1_9	RCMDR-9 FB FAULT	RcmDr9 FBusVer	2	0	1	2	3	NORMAL	FAULT	9		
YA_U32_23_31	RCMDR-31 FB FAULT	RcmDr31 FBusVer	2	0	1	2	3	NORMAL	FAULT	31		

Item Name	Long-Description	Desc	Al	Dr	Al	Co	Dr	Defect	Defect	File	File
P			P	Lo	Hi	Lo	Hi				
YA_U32_23_54	RCMDR-54 FB FAULT	RcmDr54 FBUSVer	2	0	1	2	3	NORMAL	FAULT	54	
YA_U32_34_40	RCMDR-40 FB FAULT	RcmDr40 FBUSVer	2	0	1	2	3	NORMAL	FAULT	40	
YA_U32_34_49	RCMDR-49 FB FAULT	RcmDr49 FBUSVer	2	0	1	2	3	NORMAL	FAULT	49	
ZA_702_K2_6A	MK-AZ702K2-6A FAULT	RmDmpr6A Status	3	0	1	2	7	NORMAL	FAULT	10	H-2-131077, SH 1
ZA_702_K2_6B	MK-AZ702K2-6B FAULT	RmDmpr6B Status	3	0	1	2	7	NORMAL	FAULT	10	H-2-131077, SH 1
ZA_702_K2_7A	MK-AZ702K2-7A FAULT	RmDmpr7A Status	3	0	1	2	7	NORMAL	FAULT	10	H-2-131077, SH 1
ZA_702_K2_7B	MK-AZ702K2-7B FAULT	RmDmpr7B Status	3	0	1	2	7	NORMAL	FAULT	10	H-2-131077, SH 1
ZA_702_K2_8A	MK-AZ702K2-8A FAULT	RmDmpr8A Status	3	0	1	2	7	NORMAL	FAULT	21	H-2-131077, SH 1
ZA_702_K2_8B	MK-AZ702K2-8B FAULT	RmDmpr8B Status	3	0	1	2	7	NORMAL	FAULT	21	H-2-131077, SH 1
ZA_702_K3_2A	MK-AZ702K3-2A FAULT	BvDmpr2A Status	2	0	1	2	3	NORMAL	FAULT	40	H-2-131073, SH 2
ZA_702_K3_2B	MK-AZ702K3-2B FAULT	BvDmpr2B Status	2	0	1	2	3	NORMAL	FAULT	40	H-2-131073, SH 2
ZA_AY1_K4_1	MK-AY101K4-1 FAULT	InDmpr Status	2	0	1	2	3	NORMAL	FAULT	47	H-2-131062, SH 1
ZA_AY1_K4_1A	TK-AY-101 RECIRC DAMPER LINEUP	TkRrcr DmprLnUp	2	0	1	2	3	NORMAL	FAULT	47	
ZA_AY1_K4_2	MK-AY101K4-2 FAULT	OutDmpr Status	2	0	1	2	3	NORMAL	FAULT	47	H-2-131062, SH 1
ZA_AY1_K4_3	MK-AY101K4-3 FAULT	RtnDmpr Status	2	0	1	2	3	NORMAL	FAULT	47	H-2-131062, SH 1
ZA_AY1_K4_4	MK-AY101K4-4 FAULT	Bypsdmpr Status	2	0	1	2	3	NORMAL	FAULT	47	H-2-131062, SH 1
ZA_AY2_K4_1	MK-AY102K4-1 FAULT	InDmpr Status	2	0	1	2	3	NORMAL	FAULT	48	H-2-131063, SH 1

Abandon in place

Tag Name	Long Description	Desc	Al Y	Al Lo	M Hi	Col Lo	Gr Hi	Desc-Lo	Desc-Hi	Unit-Lo	Unit-Hi	Unit	Unit	Unit	Unit
ZA_AY2_K4_1A	TK-AY-102 RECIRC DAMPER LINEUP	TkRerc DmprLnUp	2	0	1	2	3	NORMAL	FAULT	48					
ZA_AY2_K4_2	MK-AY102K4-2 FAULT	OutDmpr Status	2	0	1	2	3	NORMAL	FAULT	48		H-2-131063, SH 1		ZS-AY2K4-2	
ZA_AY2_K4_3	MK-AY102K4-3 FAULT	RtnDmpr Status	2	0	1	2	3	NORMAL	FAULT	48		H-2-131063, SH 1		ZS-AY2K4-3	
ZA_AY2_K4_4	MK-AY102K4-4 FAULT	Bypsdmpr Status	2	0	1	2	3	NORMAL	FAULT	48		H-2-131063, SH 1		ZS-AY2K4-4	
ZA_AZ1_K4_1	MK-AZ101K4-1 FAULT	InDmpr Status	2	0	1	2	3	NORMAL	FAULT	52		H-2-131064, SH 1		ZS-AZ1K4-1	
ZA_AZ1_K4_1A	TK-AZ-101 RECIRC DAMPER LINEUP	TkRerc DmprLnUp	2	0	1	2	3	NORMAL	FAULT	52					
ZA_AZ1_K4_2	MK-AZ101K4-2 FAULT	OutDmpr Status	2	0	1	2	3	NORMAL	FAULT	52		H-2-131064, SH 1		ZS-AZ1K4-2	
ZA_AZ1_K4_3	MK-AZ101K4-3 FAULT	RtnDmpr Status	2	0	1	2	3	NORMAL	FAULT	52		H-2-131064, SH 1		ZS-AZ1K4-3	
ZA_AZ1_K4_4	MK-AZ101K4-4 FAULT	Bypsdmpr Status	2	0	1	2	3	NORMAL	FAULT	52		H-2-131064, SH 1		ZS-AZ1K4-4	
ZA_AZ2_K4_1	MK-AZ102K4-1 FAULT	InDmpr Status	2	0	1	2	3	NORMAL	FAULT	53		H-2-131065, SH 1		ZS-AZ2K4-1	
ZA_AZ2_K4_1A	TK-AZ-102 RECIRC DAMPER LINEUP	TkRerc DmprLnUp	2	0	1	2	3	NORMAL	FAULT	53					
ZA_AZ2_K4_2	MK-AZ102K4-2 FAULT	OutDmpr Status	2	0	1	2	3	NORMAL	FAULT	53		H-2-131065, SH 1		ZS-AZ2K4-2	
ZA_AZ2_K4_3	MK-AZ102K4-3 FAULT	RtnDmpr Status	2	0	1	2	3	NORMAL	FAULT	53		H-2-131065, SH 1		ZS-AZ2K4-3	
ZA_AZ2_K4_4	MK-AZ102K4-4 FAULT	Bypsdmpr Status	2	0	1	2	3	NORMAL	FAULT	53		H-2-131065, SH 1		ZS-AZ2K4-4	
ZA_AZ_K15_1A	AZ-K1-5-1A DAMPER LINEUP	PvFan1A DmprLnUp	2	0	1	2	3	NORMAL	FAULT	6					
ZA_AZ_K15_1B	AZ-K1-5-1B DAMPER LINEUP	PvFan1B DmprLnUp	2	0	1	2	3	NORMAL	FAULT	17					
ZA_AZ_K18_1A	MK-AZK108-1A FAULT	InDmpr Status	3	0	1	2	7	NORMAL	FAULT	6		H-2-131075, SH 3		ZS-AZK18-1A	

Tag Name	Long Description	Desc	K1 P	K2 Lo	K3 Hi	K4 Lo	K5 Hi	Desc-Lo	Desc-Hi	Unit	Q1	Q2	Q3	Q4
ZA_AZ__K18_1B	MK-AZK108-1B FAULT	OutDmpr Status	3	0	1	2	7	NORMAL	FAULT	6			H-2-131075, SH 3	ZS-AZK18-1B
ZA_AZ__K18_1C	MK-AZK108-1C FAULT	BypDmpr Status	3	0	1	2	7	NORMAL	FAULT	6			H-2-131075, SH 3	ZS-AZK18-1C
ZA_AZ__K19_1A	MK-AZK109-1A FAULT	InDmpr Status	3	0	1	2	7	NORMAL	FAULT	17			H-2-131075, SH 3	ZS-AZK19-1A
ZA_AZ__K19_1B	MK-AZK109-1B FAULT	OutDmpr Status	3	0	1	2	7	NORMAL	FAULT	17			H-2-131075, SH 3	ZS-AZK19-1B
ZA_AZ__K19_1C	MK-AZK109-1C FAULT	BypDmpr Status	3	0	1	2	7	NORMAL	FAULT	17			H-2-131075, SH 3	ZS-AZK19-1C
ZA_AZ__K1_1A	MK-AZK1-1A FAULT	PvDmpr1A Status	2	0	1	2	3	NORMAL	FAULT	1			H-2-131076, SH 1	HS-AZK1-1A
ZA_AZ__K1_1B	MK-AZK1-1B FAULT	PvDmpr1B Status	2	0	1	2	3	NORMAL	FAULT	12			H-2-131076, SH 1	HS-AZK1-1B
TRV ZA_AZ__K1_2A	MK-AZK1-2A FAULT	PvDmpr2A Status	2	0	1	2	3	NORMAL	FAULT	1			H-2-131076, SH 1	HS-AZK1-2A
TAN ZA_AZ__K1_2B	MK-AZK1-2B FAULT	PvDmpr2B Status	2	0	1	2	3	NORMAL	FAULT	12			H-2-131076, SH 1	HS-AZK1-2B

File Name	Log Path	Days	A M	H	M	S	D	Wk	Day	Phase	Count
VS_AZ_K1_1BR	PV RESTART 1BR STATUS	PVRstRtGrntCmnd	3	0	1	6	7		INACTIVE	EXECUTE	1
VS_AZ_K1_1BR	PV RESTART 1BR STATUS	PVRstRtGrntCmnd	3	0	1	6	7		INACTIVE	EXECUTE	12

GENERAL

1-3-LP-6

Tag: TDIC_AZ_K12_1A TKA

Description: AZ-K1-2-1A DELTA T CONFIG LOOP

LCU/RCU: 1

Cntlr: RCMA_3

Cntlr No: 3

OCS Grp:

Display: (1),(2)

Subrack: 1

OCS Loop:

Logic: (3)

I/O Type: LP

Position: D

LOI Grp:

Point No: 6

Chan No:

LOI Loop:

P&ID: H-2-131076, SH 1

Remarks:

TDIC-AZK12-1A

LOOP (LP)

Desc: PvHtr1A Dt

Loop Scan Freq: .30

P200/S32 Point: 0

Units: DEG F

Range - Lo: 0.00

- Hi: 50.00

Dev Scale - Lo: -9999.99

- Hi: 99999.99

PID

Bias: 0.00

- Lo: 0.00

- Hi: 100.00

P (Gain):20

I (Integral): 10.00

D (Reset): 0.00

Manual Reset: 0.00

Setpoint Ramp: 9999.99

Ratio: 0.00

- Lo: 0.00

- Hi: 10.00

Process Variable Alarm

Enable: 1

Description: ...

Deadband:25

Group: 0

Management: 0

Setpoint Priority

Min: -9999.99 0

LoLo: -9999.99 0

Lo: 5.00 2

Hi: 99999.99 0

HiHi: 99999.99 0

Max: 99999.99 0

Rate of Change Alarm

Enable: 0

Description: ...

Deadband: 0.00

Group: 0

Management: 0

Setpoint Priority

Lo: -9999.99 0

Hi: 99999.99 0

Deviation Alarm

Enable: 0

Description: ...

Deadband: 0.00

Group: 0

Management: 0

Setpoint Priority

Lo: -9999.99 0

Hi: 99999.99 0

NOTE: (1) Tag appears on Graphic Displays
 (2) Tag appears on Group Displays

(3) Tag is Logic Related
 (4) Tag is Input/Output Only

9/18/95

MASTER LP POINT LIST REPORT

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GENERAL

2-14-LP-9

Tag: TDIC_AZ_K12_1B *TKW* Description: AZ-K1-2-1B DELTA T CONFIG LOOP

LCU/RCU: 2

Ctrlr: RCMA_14

Ctrlr No: 14

OCS Grp:

Display: (1).(2)

Subrack: 1

OCS Loop:

Logic: (3)

I/O Type: LP

Position: 0

LOI Grp:

Point No: 9

Chan No:

LOI Loop:

P&ID: H-2-131076, SH 1

Remarks:

TDIC-AZK12-1B

LOOP (LP)

Desc: PvHtr1B Dt

Loop Scan Freq: .30

P200/S32 Point: 0

Units: DEG F

Range - Lo: 0.00

- Hi: 50.00

Dev Scale - Lo: -9999.99

- Hi: 9999.99

PID

Bias: 0.00

- Lo: 0.00

- Hi: 100.00

P (Gain):20

I (Integral): 10.00

D (Reset): 0.00

Manual Reset: 0.00

Setpoint Ramp: 9999.99

Ratio: 0.00

- Lo: 0.00

- Hi: 10.00

Process Variable Alarm

Enable: 1

Description: ...

Deadband:25

Group: 0

Management: 0

Setpoint Priority

Min: -9999.99 0

LoLo: -9999.99 0

Lo: 5.00 2

Hi: 99999.99 0

HiHi: 99999.99 0

Max: 99999.99 0

Rate of Change Alarm

Enable: 0

Description: ...

Deadband: 0.00

Group: 0

Management: 0

Setpoint Priority

Lo: -9999.99 0

Hi: 99999.99 0

Deviation Alarm

Enable: 0

Description: ...

Deadband: 0.00

Group: 0

Management: 0

Setpoint Priority

Lo: -9999.99 0

Hi: 99999.99 0

NOTE: (1) Tag appears on Graphic Displays
(2) Tag appears on Group Displays

(3) Tag is Logic Related
(4) Tag is Input/Output Only

ATTACHMENT "H"

MICON GROUP DISPLAYS

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=====TKN=====
1: REC AY1 1 U32-34-1
Mode Selection
Slot 1 YS AY1 1M1(U32 34)
Slot 2 YS AY1 1M2(U32 34)
Slot 3 HS AY1 K4 1A(RCMD 47)
LOI Slot 4 HS AY1 K4 1B(RCMD 47)
TKN Slot 5 HS AY1 K4 1C(RCMD 47)
Slot 6 Z AY1 K4 1(RCMD 47)
Slot 7 Z AY1 K4 2(RCMD 47)
Slot 8 Z AY1 K4 3(RCMD 47)
=====TKN=====
2: REC AY1 2 U32-34-2
Fan Control
Slot 1 YS AY1 K45 1A(RCMDR 49)
LOI Slot 2 YS AY1 K45 1(RCMDR 49)
TKN Slot 3 HS AY1 K45 1(RCMDR 49)
Slot 4 HS AY1 K45 1A(RCMDR 49)
Slot 5 II AY1 K45 1(RCMA 46)
Slot 6 KQI AY1 K45 1(RCMA 46)
Slot 7 PDI AY1 K45 1(RCMA 46)
Slot 8 PDI AY1 K48 1(RCMA 46)
=====TKN=====
3: REC AY1 3 U32-34-3
Condensor
LOI Slot 1 TI AY1 EWS 1(RCMF 45)
TKN Slot 2 TI AY1 EWR 1(RCMF 45)
Slot 3 TI AY1 K48 1A(RCMF 45)
Slot 4 TI AY1 K48 1B(RCMF 45)
Slot 5 PDI AY1 K48 1(RCMA 46)
=====TKN=====
4: REC AY1 4 U32-34-4
Damper Status
Slot 1 ZS AY1 K4 1(RCMD 47)
Slot 2 ZS AY1 K4 1A(RCMD 47)
LOI Slot 3 ZS AY1 K4 1B(RCMD 47)
TKN Slot 5 ZS AY1 K4 2(RCMD 47)
Slot 6 ZS AY1 K4 2A(RCMD 47)
Slot 7 ZS AY1 K4 2B(RCMD 47)
=====TKN=====
5: REC AY1 5 U32-34-5
More Damper Status
Slot 1 ZS AY1 K4 3(RCMD 47)
LOI Slot 2 ZS AY1 K4 3A(RCMD 47)
TKN Slot 3 ZS AY1 K4 3B(RCMD 47)
Slot 5 ZS AY1 K4 4(RCMD 47)
Slot 6 ZS AY1 K4 4A(RCMD 47)
Slot 7 ZS AY1 K4 4B(RCMD 47)
=====TKN=====
11: REC AY2 1 U32-34-8
Recirc Mode Selection
Slot 1 YS AY2 1M1(U32 34)
LOI Slot 2 YS AY2 1M2(U32 34)
TKN Slot 3 HS AY2 K4 1A(RCMD 48)
Slot 4 HS AY2 K4 1B(RCMD 48)
Slot 5 HS AY2 K4 1C(RCMD 48)
Slot 6 Z AY2 K4 1(RCMD 48)
Slot 7 Z AY2 K4 2(RCMD 48)
Slot 8 Z AY2 K4 3(RCMD 48)
=====TKN=====
12: REC AY2 2 U32-34-9
Fan Control
LOI Slot 1 YS AY2 K45 1A1(RCMD 48)
TKN Slot 2 YS AY2 K45 1(RCMDR 49)

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Slot 3 HS AY2 K45 1(RCMDR 49)
 Slot 4 HS AY2 K45 1A(RCMDR 49)
 Slot 5 II AY2 K45 1(RCMA 46)
 Slot 6 KQI AY2 K45 1(RCMA 46)
 Slot 7 PDI AY2 K45 1(RCMA 46)
 Slot 8 PDI AY2 K48 1(RCMA 46)
 ===== TKN

13: REC AY2 3 U32-34-10
 Condensor
 LOI Slot 1 TI AY2 EWS 1(RCMF 45)
 TKN Slot 2 TI AY2 EWR 1(RCMF 45)
 Slot 3 TI AY2 K48 1A(RCMF 45)
 Slot 4 TI AY2 K48 1B(RCMF 45)
 Slot 5 PDI AY2 K48 1(RCMA 46)
 ===== TKN

14: REC AY2 4 U32-34-11
 Damper Status
 LOI Slot 1 ZS AY2 K4 1(RCMD 48)
 TKN Slot 2 ZS AY2 K4 1A(RCMD 48)
 Slot 3 ZS AY2 K4 1B(RCMD 48)
 Slot 5 ZS AY2 K4 2(RCMD 48)
 Slot 6 ZS AY2 K4 2A(RCMD 48)
 Slot 7 ZS AY2 K4 2B(RCMD 48)
 ===== TKN

15: REC AY2 5 U32-34-12
 More Damper Status
 LOI Slot 1 ZS AY2 K4 3(RCMD 48)
 TKN Slot 2 ZS AY2 K4 3A(RCMD 48)
 Slot 3 ZS AY2 K4 3B(RCMD 48)
 Slot 5 ZS AY2 K4 4(RCMD 48)
 Slot 6 ZS AY2 K4 4A(RCMD 48)
 Slot 7 ZS AY2 K4 4B(RCMD 48)
 ===== TKN

21: REC AZ1 1 U32-23-1
 Recirc Mode Selection
 LOI Slot 1 YS AZ1 1M1(U32 23)
 TKN Slot 2 YS AZ1 1M2(U32 23)
 Slot 3 HS AZ1 K4 1A(RCMD 52)
 Slot 4 HS AZ1 K4 1B(RCMD 52)
 Slot 5 HS AZ1 K4 1C(RCMD 52)
 Slot 6 Z AZ1 K4 1(RCMD 52)
 Slot 7 Z AZ1 K4 2(RCMD 52)
 Slot 8 Z AZ1 K4 3(RCMD 52)
 ===== TKN

22: REC AZ1 2 U32-23-2
 Fan Control
 LOI Slot 1 YS AZ1 K45 1A(RCMDR 54)
 TKN Slot 2 YS AZ1 K45 1(RCMDR 54)
 Slot 3 HS AZ1 K45 1(RCMDR 54)
 Slot 4 HS AZ1 K45 1A(RCMDR 54)
 Slot 5 II AZ1 K45 1(RCMA 51)
 Slot 6 KQI AZ1 K45 1(RCMA 51)
 Slot 7 PDI AZ1 K45 1(RCMA 51)
 Slot 8 PDI AZ1 K48 1(RCMA 51)
 ===== TKN

23: REC AZ1 3 U32-23-3
 Condensor
 LOI Slot 1 TI AZ1 EWS 1(RCMF 50)
 TKN Slot 2 TI AZ1 EWR 1(RCMF 50)
 Slot 3 TI AZ1 K48 1A(RCMF 50)
 Slot 4 TI AZ1 K48 1B(RCMF 50)
 Slot 5 PDI AZ1 K48 1(RCMA 51)
 ===== TKN

24: REC AZ1 4 U32-23-4
 LOI
 TKN

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- Damper Status
  Slot 1 ZS AZ1 K4 1(RCMD 52)
  Slot 2 ZS AZ1 K4 1A(RCMD 52)
  Slot 3 ZS AZ1 K4 1B(RCMD 52)
  Slot 5 ZS AZ1 K4 2(RCMD 52)
  Slot 6 ZS AZ1 K4 2A(RCMD 52)
  Slot 7 ZS AZ1 K4 2B(RCMD 52)
===== TKN
25: REC AZ1 5 U32-23-5
  More Damper Status
  Slot 1 ZS AZ1 K4 3(RCMD 52)
  Slot 2 ZS AZ1 K4 3A(RCMD 52)
  Slot 3 ZS AZ1 K4 3B(RCMD 52)
  Slot 5 ZS AZ1 K4 4(RCMD 52)
  Slot 6 ZS AZ1 K4 4A(RCMD 52)
  Slot 7 ZS AZ1 K4 4B(RCMD 52)
===== TKN
31: REC AZ2 1 U32-23-8
  Recirc Mode Selection
  Slot 1 YS AZ2 1M1(U32 23)
  Slot 2 YS AZ2 1M2(U32 23)
  Slot 3 HS AZ2 K4 1A(RCMD 53)
  Slot 4 HS AZ2 K4 1B(RCMD 53)
  Slot 5 HS AZ2 K4 1C(RCMD 53)
  Slot 6 Z AZ2 K4 1(RCMD 53)
  Slot 7 Z AZ2 K4 2(RCMD 53)
  Slot 8 Z AZ2 K4 3(RCMD 53)
===== TKN
32: REC AZ2 2 U32-23-9
  Fan Control
  Slot 1 YS AZ2 K45 1A1(RCMD 53)
  Slot 2 YS AZ2 K45 1(RCMD 54)
  Slot 3 HS AZ2 K45 1(RCMD 54)
  Slot 4 HS AZ2 K45 1A(RCMD 54)
  Slot 5 II AZ2 K45 1(RCMA 51)
  Slot 6 KQI AZ2 K45 1(RCMA 51)
  Slot 7 PDI AZ2 K45 1(RCMA 51)
  Slot 8 PDI AZ2 K48 1(RCMA 51)
===== TKN
33: REC AZ2 3 U32-23-10
  Condensor
  Slot 1 TI AZ2 EWS 1(RCMF 50)
  Slot 2 TI AZ2 EWR 1(RCMF 50)
  Slot 3 TI AZ2 K48 1A(RCMF 50)
  Slot 4 TI AZ2 K48 1B(RCMF 50)
  Slot 5 PDI AZ2 K48 1(RCMA 51)
===== TKN
34: REC AZ2 4 U32-23-11
  Damper Status
  Slot 1 ZS AZ2 K4 1(RCMD 53)
  Slot 2 ZS AZ2 K4 1A(RCMD 53)
  Slot 3 ZS AZ2 K4 1B(RCMD 53)
  Slot 5 ZS AZ2 K4 2(RCMD 53)
  Slot 6 ZS AZ2 K4 2A(RCMD 53)
  Slot 7 ZS AZ2 K4 2B(RCMD 53)
===== TKN
35: REC AZ2 5 U32-23-12
  More Damper Status
  Slot 1 ZS AZ2 K4 3(RCMD 53)
  Slot 2 ZS AZ2 K4 3A(RCMD 53)
  Slot 3 ZS AZ2 K4 3B(RCMD 53)
  Slot 5 ZS AZ2 K4 4(RCMD 53)
  Slot 6 ZS AZ2 K4 4A(RCMD 53)
  Slot 7 ZS AZ2 K4 4B(RCMD 53)

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===== TKN
41: EVAP AY1 1      U32-34-15-
Tower Control
Slot 1 YS AY1 EWT 1A(RCMDR 49)
Slot 2 HS AY1 EWT 1(RCMDR 49)
LOI Slot 4 YS AY1 EWSP 1A(RCMDR 49)
TKN Slot 5 HS AY1 EWSP 1(RCMDR 49)
Slot 7 PDAAH AY1WF 2(RCMD 47)
===== TKN
42: EVAP AY1 2      U32-34-16
Pump 1A Control
Slot 1 YS AY1 EWP 1AD(RCMDR 49)
Slot 2 YS AY1 EWP 1A(RCMDR 49)
LOI Slot 3 HS AY1 EWP 1A(RCMDR 49)
TKN Slot 4 HS AY1 EWP 1AA(RCMDR 49)
Slot 5 HS AY1 EWP 1AB(RCMDR 49)
Slot 6 II AY1 EWP 1A(RCMA 46)
Slot 7 KQI AY1 EWP 1A(RCMA 46)
Slot 8 FI AY1 EWR 1(RCMA 46)
===== TKN
43: EVAP AY1 3      U32-34-17
Pump 1B Control
Slot 1 YS AY1 EWP 1BD(RCMDR 49)
LOI Slot 2 YS AY1 EWP 1B(RCMDR 49)
TKN Slot 3 HS AY1 EWP 1B(RCMDR 49)
Slot 4 HS AY1 EWP 1BA(RCMDR 49)
Slot 5 HS AY1 EWP 1BB(RCMDR 49)
Slot 6 II AY1 EWP 1B(RCMA 46)
Slot 7 KQI AY1 EWP 1B(RCMA 46)
Slot 8 FI AY1 EWR 1(RCMA 46)
===== TKN
44: EVAP AY1 4      U32-34-18
Evap Tower Misc
LOI Slot 1 FI AY1 EWR 1(RCMA 46)
TKN Slot 2 FQI AY1 EWR 1(RCMA 46)
Slot 4 LAL AY1 EWT 1(RCMD 47)
===== TKN
51: EVAP AY2 1      U32-34-21
Tower Control
Slot 1 YS AY2 EWT 1A(RCMDR 49)
LOI Slot 2 HS AY2 EWT 1(RCMDR 49)
TKN Slot 4 YS AY2 EWSP 1A(RCMDR 49)
Slot 5 HS AY2 EWSP 1(RCMDR 49)
Slot 7 PDAAH AY2WF 2(RCMD 48)
===== TKN
52: EVAP AY2 2      U32-34-22
Pump 1A Control
Slot 1 YS AY2 EWP 1AD(RCMDR 49)
Slot 2 YS AY2 EWP 1A(RCMDR 49)
LOI Slot 3 HS AY2 EWP 1A(RCMDR 49)
TKN Slot 4 HS AY2 EWP 1AA(RCMDR 49)
Slot 5 HS AY2 EWP 1AB(RCMDR 49)
Slot 6 II AY2 EWP 1A(RCMA 46)
Slot 7 KQI AY2 EWP 1A(RCMA 46)
Slot 8 FI AY2 EWR 1(RCMA 46)
===== TKN
53: EVAP AY2 3      U32-34-23
Pump 1B Control
LOI Slot 1 YS AY2 EWP 1BD(RCMDR 49)
TKN Slot 2 YS AY2 EWP 1B(RCMDR 49)
Slot 3 HS AY2 EWP 1B(RCMDR 49)
Slot 4 HS AY2 EWP 1BA(RCMDR 49)
Slot 5 HS AY2 EWP 1BB(RCMDR 49)
Slot 6 II AY2 EWP 1B(RCMA 46)

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- Slot 7 KQI AY2 EWP 1B(RCMA 46)
  Slot 8 FI AY2 EWR 1(RCMA 46)
===== TKN
54: EVAP AY2 4      U32-34-34
   Evap Tower Misc
LOI Slot 1 FI AY2 EWR 1(RCMA 46)
TKN Slot 2 FQI AY2 EWR 1(RCMA 46)
    Slot 4 LAL AY2 EWTK 1(RCMD 48)
===== TKN
61: EVAP AZ1 1      U32-23-15
   Tower Control
LOI Slot 1 YS AZ1 EWT 1A(RCMDR 54)
TKN Slot 2 HS AZ1 EWT 1(RCMDR 54)
    Slot 4 YS AZ1 EWSP 1A(RCMDR 54)
    Slot 5 HS AZ1 EWSP 1(RCMDR 54)
    Slot 7 PDAH AZ1WF 2(RCMD 52)
===== TKN
62: EVAP AZ1 2      U32-23-16
   Pump 1A Control
LOI Slot 1 YS AZ1 EWP 1AD(RCMDR 54)
TKN Slot 2 YS AZ1 EWP 1A(RCMDR 54)
    Slot 3 HS AZ1 EWP 1A(RCMDR 54)
    Slot 4 HS AZ1 EWP 1AA(RCMDR 54)
    Slot 5 HS AZ1 EWP 1AB(RCMDR 54)
    Slot 6 II AZ1 EWP 1A(RCMA 51)
    Slot 7 KQI AZ1 EWP 1A(RCMA 51)
    Slot 8 FI AZ1 EWR 1(RCMA 51)
===== TKN
63: EVAP AZ1 3      U32-23-17
   Pump 1B Control
LOI Slot 1 YS AZ1 EWP 1BD(RCMDR 54)
TKN Slot 2 YS AZ1 EWP 1B(RCMDR 54)
    Slot 3 HS AZ1 EWP 1B(RCMDR 54)
    Slot 4 HS AZ1 EWP 1BA(RCMDR 54)
    Slot 5 HS AZ1 EWP 1BB(RCMDR 54)
    Slot 6 II AZ1 EWP 1B(RCMA 51)
    Slot 7 KQI AZ1 EWP 1B(RCMA 51)
    Slot 8 FI AZ1 EWR 1(RCMA 51)
===== TKN
64: EVAP AZ1 4      U32-23-18
   AZ1 misc
LOI Slot 1 FI AZ1 EWR 1(RCMA 51)
TKN Slot 2 FQI AZ1 EWR 1(RCMA 51)
    Slot 4 LAL AZ1 EWTK 1(RCMD 52)
===== TKN
71: EVAP AZ2 1      U32-23-21
   Tower Control
LOI Slot 1 YS AZ2 EWT 1A(RCMDR 54)
TKN Slot 2 HS AZ2 EWT 1(RCMDR 54)
    Slot 4 YS AZ2 EWSP 1A(RCMDR 54)
    Slot 5 HS AZ2 EWSP 1(RCMDR 54)
    Slot 7 PDAH AZ2WF 2(RCMD 53)
===== TKN
72: EVAP AZ2 2      U32-23-22
   Pump 1A Control
LOI Slot 1 YS AZ2 EWP 1AD(RCMDR 54)
TKN Slot 2 YS AZ2 EWP 1A(RCMDR 54)
    Slot 3 HS AZ2 EWP 1A(RCMDR 54)
    Slot 4 HS AZ2 EWP 1AA(RCMDR 54)
    Slot 5 HS AZ2 EWP 1AB(RCMDR 54)
    Slot 6 II AZ2 EWP 1A(RCMA 51)
    Slot 7 KQI AZ2 EWP 1A(RCMA 51)
    Slot 8 FI AZ2 EWR 1(RCMA 51)
===== TKN

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73: EVAP_AZ2_3 032-23-23

Pump_1B Control

Slot 1 YS_AZ2 EWP_1BD(RCMDR 54)
Slot 2 YS_AZ2 EWP_1B(RCMDR 54)
Slot 3 HS_AZ2 EWP_1B(RCMDR 54)
Slot 4 HS_AZ2 EWP_1BA(RCMDR 54)
Slot 5 HS_AZ2 EWP_1BB(RCMDR 54)
Slot 6 II_AZ2 EWP_1B(RCMA 51)
Slot 7 KQI_AZ2 EWP_1B(RCMA 51)
Slot 8 FI_AZ2 EWR_1(RCMA 51)
===== TKN

74: EVAP_AZ2_4 032-23-24

LOI AZ2 Misc-

TKN Slot 1 FI_AZ2 EWR_1(RCMA 51)
Slot 2 FOI_AZ2 EWR_1(RCMA 51)
Slot 4 LAL_AZ2 EWTK_1(RCMD 53)
===== TKN

81: H2O SUPPLY 032-23-27

Water Supply

LOI Slot 1 PI_AZ RW_1(RCMA 24)
TKN Slot 2 FI_AZ RW_1(RCMA 24)
Slot 3 FOI_AZ RW_1(RCMA 24)
Slot 5 PDI_AZ RWF_1(RCMA 24)
===== TKN

91: CHILLER_1 032-23-29

Chiller Control

LOI Slot 1 YS_AZ CWR_1A(RCMDR 31)
TKN Slot 2 HS_AZ CWR_1(RCMDR 31)
Slot 3 HS_AZ CWR_1A(RCMDR 31)
Slot 4 Y_AZ CWR_1(RCMDR 31)
Slot 5 XA_AZ CWR_1(RCMD 28)
===== TKN

92: CHILLER_2 032-23-30

Pump_1A Control

LOI Slot 1 YS_AZ CWP_1AD(RCMDR 31)
TKN Slot 2 YS_AZ CWP_1A(RCMDR 31)
Slot 3 HS_AZ CWP_1A(RCMDR 31)
Slot 4 HS_AZ CWP_1AA(RCMDR 31)
Slot 5 HS_AZ CWP_1AB(RCMDR 31)
Slot 6 II_AZ CWP_1A(RCMA 24)
Slot 7 KQI_AZ CWP_1A(RCMA 24)
Slot 8 FI_AZ CWR_1(RCMA 24)
===== TKN

93: CHILLER_3 032-23-31

Pump_1B Control

LOI Slot 1 YS_AZ CWP_1BD(RCMDR 31)
TKN Slot 2 YS_AZ CWP_1B(RCMDR 31)
Slot 3 HS_AZ CWP_1B(RCMDR 31)
Slot 4 HS_AZ CWP_1BA(RCMDR 31)
Slot 5 HS_AZ CWP_1BB(RCMDR 31)
Slot 6 II_AZ CWP_1B(RCMA 24)
Slot 7 KQI_AZ CWP_1B(RCMA 24)
Slot 8 FI_AZ CWR_1(RCMA 24)
===== TKN

94: CHILLER_4 032-23-32

Chiller Misc

LOI Slot 1 FI_AZ CWR_1(RCMA 24)
TKN Slot 2 FOI_AZ CWR_1(RCMA 24)
Slot 4 LAL_AZ CWTk_1(RCMD 28)
=====

101: VENTS_1 032-34-27

Tank AY101 FlowThru

LOI Slot 1 TAL_AY1 K12_1(RCMD 47)
TKN Slot 2 PDAH_AYIK1_1(RCMD 47)

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Slot 3 PI AY1 K1 2 (RCMA 46)
 Slot 4 PIC AY1 K1 1 (RCMA 46)
 Slot 5 ZI AY1 K1 1 (RCMA 46)
 Slot 6 FI AY1 K1 1 (RCMA 46)
 Slot 7 FIC AY1 K1 2 (RCMA 13)
 Slot 8 ZI AY1 K1 2 (RCMA 13) } U32-12-32

102: VENTS 2 U32-34-28 TKN

Tank AY102 FlowThru
 Slot 1 TAL AY2 K12 1 (RCMD 48)
 Slot 2 PDAH AY2K1 I (RCMD 48)
 Slot 3 PI AY2 K1 2 (RCMA 46)
 LOI Slot 4 PIC AY2 K1 1 (RCMA 46)
 TKN Slot 5 ZI AY2 K1 1 (RCMA 46)
 Slot 6 FI AY2 K1 1 (RCMA 46)
 Slot 7 FIC AY2 K1 2 (RCMA 13)
 Slot 8 ZI AY2 K1 2 (RCMA 13) } U32-12-33

103: VENTS 3 U32-23-34 TKN

Tank AZ101 FlowThru
 Slot 1 TAL AZ1 K12 1 (RCMD 52)
 LOI Slot 2 PDAH AZ1K1 I (RCMD 52)
 TKN Slot 3 PI AZ1 K1 2 (RCMA 51)
 Slot 4 PIC AZ1 K1 1 (RCMA 51)
 Slot 5 ZI AZ1 K1 1 (RCMA 51)
 Slot 6 FI AZ1 K1 1 (RCMA 51)
 Slot 7 FIC AZ1 K1 2 (RCMA 2)
 Slot 8 ZI AZ1 K1 2 (RCMA 2) } U32-1-42

104: VENTS 4 U32-23-35 TKN

Tank AZ102 FlowThru
 Slot 1 TAL AZ2 K12 1 (RCMD 53)
 LOI Slot 2 PDAH AZ2K1 I (RCMD 53)
 TKN Slot 3 PI AZ2 K1 2 (RCMA 51)
 Slot 4 PIC AZ2 K1 1 (RCMA 51)
 Slot 5 ZI AZ2 K1 1 (RCMA 51)
 Slot 6 FI AZ2 K1 1 (RCMA 51)
 Slot 7 FIC AZ2 K1 2 (RCMA 2)
 Slot 8 ZI AZ2 K1 2 (RCMA 2) } U32-1-43

105: VENTS 5 U32-1-28

Recirc Mode Setpoints
 Slot 1 FC AY1 K1 2V2 (RCMA 13)
 Slot 2 FC AY1 K1 2V1 (RCMA 13)
 LOI Slot 3 FC AY2 K1 2V2 (RCMA 13)
 Slot 4 FC AY2 K1 2V1 (RCMA 13)
 Slot 5 FC AZ1 K1 2V2 (RCMA 2)
 Slot 6 FC AZ1 K1 2V1 (RCMA 2)
 Slot 7 FC AZ2 K1 2V2 (RCMA 2)
 Slot 8 FC AZ2 K1 2V1 (RCMA 2) } U32-12-27
 Slots - 5, 6, 7, 8 are in U32-1-28

111: PRI COOL 1 U32-23-1

Condenser
 Slot 1 YS AZ K18 1M (U32 1)
 Slot 3 TI AZ CWS 1 (RCMA 24)
 LOI Slot 4 TI AZ CWR 1 (RCMA 24)
 TKN Slot 5 TI AZ K18 1A (RCMA 24)
 Slot 6 TI AZ K18 1B (RCMA 24)
 Slot 7 PDI AZ K18 1 (RCMA 2)
 Slot 8 Z AZ K18 1 (RCMD 6)
 Slots - 1 and 7 are on U32-1-1
 Slots - 3, 4, 5, 6 are on U32-23-6

112: PRI COOL 2 U32-1-2

Condenser Valving
 LOI Slot 1 ZS AZ K18 1C (RCMD 6)
 TKN

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Slot 2 ZS AZ K18 1CA(RCMD 6)
 Slot 3 ZS AZ K18 1CB(RCMD 6)
 Slot 5 ZS AZ K18 1A(RCMD 6)
 Slot 6 ZS AZ K18 1AA(RCMD 6)
 Slot 7 ZS AZ K18 1AB(RCMD 6)

=====
 113: PRI COOL 3 U32-1-3 TKN

Condenser Valving cont
 Slot 1 ZS AZ K18 1B(RCMD 6)
 Slot 2 ZS AZ K18 1BA(RCMD 6)
 Slot 3 ZS AZ K18 1BB(RCMD 6)

=====
 114: PRI COOL 4 TKN

HEME
 Slot 1 YS AZ K19 1(RCMD 17)
 Slot 2 PDI AZ K19 1(RCMA 2)
 Slot 3 RI AZ K19 1(RCMA 24)
 Slot 4 RAH AZ K19 1(RCMD 28)
 Slot 5 RAX AZ K19 1(RCMD 28)
 Slot 7 Z AZ K19 1(RCMD 17)

=====
 115: PRI COOL 5 U32-12-2 TKN

HEME Valving
 Slot 1 ZS AZ K19 1C(RCMD 17)
 Slot 2 ZS AZ K19 1CA(RCMD 17)
 Slot 3 ZS AZ K19 1CB(RCMD 17)
 Slot 5 ZS AZ K19 1A(RCMD 17)
 Slot 6 ZS AZ K19 1AA(RCMD 17)
 Slot 7 ZS AZ K19 1AB(RCMD 17)

=====
 116: PRI COOL 6 U32-12-3 TKN

HEME Valving cont
 Slot 1 ZS AZ K19 1B(RCMD 17)
 Slot 2 ZS AZ K19 1BA(RCMD 17)
 Slot 3 ZS AZ K19 1BB(RCMD 17)

=====
 117: PRI COOL 7 U32-23-37 TKN

Condensate
 Slot 1 LAL AZ PCSP 1(RCMD 28)
 Slot 2 LAH AZ PCSP 1(RCMD 28)
 Slot 3 FI AZ PC 1(RCMA 24)
 Slot 4 FOI AZ PC 1(RCMA 24)

=====
 121: PRI EXH 1 U32-1-6 TKN

Heater IA Control
 Slot 1 YS AZ K12 1AM(U32 1)
 Slot 2 YS AZ K12 1AD(U32 1)
 Slot 3 YS AZ K12 1AA(U32 1)
 Slot 4 HS AZ K12 1A(U32 1)
 Slot 5 HS AZ K12 1AA(U32 1)
 Slot 6 TDI AZ K12 1A(RCMA 3)
 Slot 7 TI AZ K12 1A(RCMA 3)
 Slot 8 TI AZ K12 3A(RCMA 3)

=====
 122: PRI EXH 2 U32-1-7 TKN

Heater IA Damper Control
 Slot 1 ZS AZ K1 1A(U32 1)
 Slot 2 HS AZ K1 1A(U32 1)
 Slot 3 HS AZ K1 1AA(U32 1)
 Slot 5 ZS AZ K1 2A(U32 1)
 Slot 6 HS AZ K1 2A(U32 1)
 Slot 7 HS AZ K1 2AA(U32 1)
 Slot 8 HS AZ K1 2AB(U32 1)

Wrong on LOI Rg
 LOI shows 2A Rg
 should be 1A Rg

Corrected 1/13/96 Rg

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123: PRI EXH 3 U32-1-8 TKN

Fan 1A Control

Slot 1 YS AZ K15 1AM(U32 1)
 Slot 2 YS AZ K15 1AE(U32 1)
 Slot 3 YS AZ K15 1AA(U32 1)
 Slot 4 ZS AZ K15 1A(RCMD 6)
 Slot 5 HS AZ K15 1A(U32 1)
 Slot 6 HS AZ K15 1AA(U32 1)
 Slot 7 HS AZ K15 1AB(U32 1)
 Slot 8 TI AZ K12 2A(RCMA 3)

===== TKN

124: PRI EXH 4 U32-1-9

Fan 1A Control cont

Slot 1 PIC AZ K1 1A(RCMA 3)
 Slot 2 SI AZ K15 1A(RCMA 3)
 Slot 3 II AZ K15 1A(RCMA 3)
 Slot 4 QOI AZ K15 1A(RCMA 3)
 Slot 6 ZS AZ K15 1A1(RCMD 6)
 Slot 7 ZS AZ K15 1A2(RCMD 6)
 Slot 8 ZS AZ K15 1A3(RCMD 6)

===== TKN

125: PRI EXH 5

HEPA Status

Slot 1 YS AZ K1 1A(U32 1) → U32-1-10
 Slot 2 PDI AZ K14 1A(RCMA 3)
 Slot 3 PDI AZ K110 1A(RCMA 3)
 Slot 4 PDI AZ K14 2A(RCMA 3)
 Slot 5 YS AZ K1 1B(U32 12) → U32-12-4
 Slot 6 PDI AZ K14 1B(RCMA 14)
 Slot 7 PDI AZ K110 1B(RCMA 14)
 Slot 8 PDI AZ K14 2A(RCMA 3)

===== TKN

126: PRI EXH 6

Heater 1B Control

Slot 1 YS AZ K12 1BM(U32 1) → U32-1-11
 Slot 2 YS AZ K12 1BD(U32 12)
 Slot 3 YS AZ K12 1BA(U32 12)
 Slot 4 HS AZ K12 1BA(U32 12)
 Slot 5 HS AZ K12 1B(U32 12) } U32-12-6
 Slot 6 TDIC AZ K12 1B(RCMA 14)
 Slot 7 TI AZ K12 1B(RCMA 14)
 Slot 8 TI AZ K12 3B(RCMA 14)

===== TKN

127: PRI EXH 7 U32-12-7

Heater 1B Damper Control

Slot 1 ZS AZ K1 1B(U32 12)
 Slot 2 HS AZ K1 1B(U32 12)
 Slot 3 HS AZ K1 1BA(U32 12)
 Slot 5 ZS AZ K1 2B(U32 12)
 Slot 6 HS AZ K1 2B(U32 12)
 Slot 7 HS AZ K1 2BA(U32 12)
 Slot 8 HS AZ K1 2BB(U32 12)

===== TKN

128: PRI EXH 8

Fan 1B Control

Slot 1 YS AZ K15 1BM(U32 1) → U32-1-4
 Slot 2 YS AZ K15 1BE(U32 12)
 Slot 3 YS AZ K15 1BA(U32 12)
 Slot 4 ZS AZ K15 1B(RCMD 17)
 Slot 5 HS AZ K15 1B(U32 12) } U32-12-8
 Slot 6 HS AZ K15 1BA(U32 12)
 Slot 7 HS AZ K15 1BB(U32 12)
 Slot 8 TI AZ K12 2B(RCMA 14)

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*129: PRI EXH 9 U32-12-9 TKN

Train 1B Control
 Slot 1 PIC AZ K1 1B(RCMA 14)
 Slot 2 SI AZ K15 1B(RCMA 14)
 LOT Slot 3 II AZ K15 1B(RCMA 14)
 TKN Slot 4 KOI AZ K15 1B(RCMA 14)
 Slot 6 ZS AZ K15 1B1(RCMD 17)
 Slot 7 ZS AZ K15 1B2(RCMD 17)
 Slot 8 ZS AZ K15 1B3(RCMD 17)

=====
 141: PRI STK 1 U32-12-12

Main Exhaust Status
 Slot 1 FI AZ K1 3(RCMA 14)
 LOT Slot 2 FOI AZ K1 3(RCMA 14)
 TKN Slot 4 TI AZ K1 3(RCMA 14)
 Slot 6 RI AZ K1 1(RCMA 14)
 Slot 7 RAX AZ K1 1(RCMD 17)
 Slot 8 RAH AZ K1 1(RCMD 17)

=====
 *142: PRI STK 2

Sample Flowrates

LOT Slot 1 FI AZ K1 1(RCMA 14)
 TKN Slot 2 FOI AZ K1 1(RCMA 14)
 Slot 4 FI AZ K1 2(RCMA 14)
 Slot 5 FOI AZ K1 2(RCMA 14)
 Slot 7 FAL AZ K1 4(RCMD 28) → U32-25-13
 TKN

=====
 *151: DIESEL 1

Diesel Status

LOT Slot 1 YS AZ EPR 3(RCMD 7)
 TKN Slot 2 YS AZ EPRG 2(RCMD 7)
 Slot 3 YS AZ EPRG 1(RCMD 7)
 Slot 4 XA AZ EPRG 1(RCMD 7)
 Slot 6 XA AZ EPRB 1(RCMD 18) → U32-12-14
 Slot 7 LAL AZ EPRTK 1(RCMD 7)
 Slot 8 LALL AZ EPRTK 1(RCMD 7)
 TKN

=====
 152: DIESEL 2

UPS Status

LOT Slot 1 XA AZ EPRUPS 1(RCMD 7) → U32-1-13
 TKN Slot 2 XA AZ EPRUPS 2(RCMD 18) → U32-12-20
 Slot 3 XA AZ EPRUPS 3(RCMD 18)
 TKN

=====
 153: DIESEL 3

Transfer Switches

LOT Slot 1 YS AZ EPR 1(RCMD 7)
 TKN Slot 2 YS AZ EPR 1A(RCMD 7)
 Slot 3 YS AZ EPR 1B(RCMD 7)
 Slot 5 YS AZ EPR 2(RCMD 7)
 Slot 6 YS AZ EPR 2A(RCMD 18)
 Slot 7 YS AZ EPR 2B(RCMD 18) → U32-12-16
 TKN

=====
 161: BLD SUP 1 U32-34-32

AC & Vent Cell Pressure Control

LOT Slot 1 YS 702 K26 1M(U32 34)
 TKN Slot 2 YS 702 K26 1A(RCMDR 40)
 Slot 3 HS 702 K26 1(RCMDR 40)
 Slot 4 HS 702 K26 1A(RCMDR 40)
 Slot 6 PDIC 702K3 1(RCMA 36)
 Slot 7 ZI 702 K3 1(RCMA 36)
 Slot 8 PDAL 702K3 1(RCMA 36)
 TKN

=====
 162: BLD SUP 2 U32-34-33

Filter Room A Control

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LOI
Py Slot 1 PDIC 702 K2 2 (RCMA 35)
Slot 2 PDAL 702K2 2 (RCMA 35)
Slot 3 ZI 702 K24 1 (RCMA 35)
Slot 5 PDI 702 K24 1 (RCMA 35)
Slot 6 PDAH 702K24 1 (RCMA 35)

=====
163: BLD SUP 3 U32-34-34 TKN
Filter Room B Control

LOI
TKN Slot 1 PDIC 702 K2 3 (RCMA 35)
Slot 2 PDAL 702K2 3 (RCMA 35)
Slot 3 ZI 702 K24 2 (RCMA 35)
Slot 5 PDI 702 K24 2 (RCMA 35)
Slot 6 PDAH 702K24 2 (RCMA 35)

=====
164: BLD SUP 4 U32-34-35 TKN
Zone Pressure Differentials

LOI
TKN Slot 1 PDI 702 K2 7 (RCMA 35)
Slot 2 PDAL 702K2 7 (RCMA 35)
Slot 3 PDAH 702K2 7 (RCMA 35)
Slot 4 PDI 702 K2 8 (RCMA 35)
Slot 5 PDAL 702K2 8 (RCMA 35)
Slot 6 PDAH 702K2 8 (RCMA 35)
Slot 7 PDI 702 K2 1 (RCMA 35)
Slot 8 PDAL 702K2 1 (RCMA 35)

=====
171: BLD TEMP 1 U32-1-17 TKN
Stack Room Relief Dampers

LOI
Py Slot 1 ZS 702 K2 6A (RCMDR 10)
Slot 2 ZS 702 K2 6B (RCMDR 10)
Slot 3 HS 702 K2 6 (RCMDR 10)
Slot 4 HS 702 K2 6A (RCMDR 10)
Slot 5 ZS 702 K2 6AA (RCMD 7)
Slot 6 ZS 702 K2 6AB (RCMD 7)
Slot 7 ZS 702 K2 6BA (RCMD 7)
Slot 8 ZS 702 K2 6BB (RCMD 7)

=====
172: BLD TEMP 2 U32-1-18 TKN
E/I Room A Relief Dampers

LOI
TKN Slot 1 ZS 702 K2 7A (RCMDR 10)
Slot 2 ZS 702 K2 7B (RCMDR 10)
Slot 3 HS 702 K2 7 (RCMDR 10)
Slot 4 HS 702 K2 7A (RCMDR 10)
Slot 5 ZS 702 K2 7AA (RCMD 7)
Slot 6 ZS 702 K2 7AB (RCMD 7)
Slot 7 ZS 702 K2 7BA (RCMD 7)
Slot 8 ZS 702 K2 7BB (RCMD 7)

=====
173: BLD TEMP 3 U32-12-15 TKN
E/I Room B Relief Dampers

LOI
TKN Slot 1 ZS 702 K2 8A (RCMDR 21)
Slot 2 ZS 702 K2 8B (RCMDR 21)
Slot 3 HS 702 K2 8 (RCMDR 21)
Slot 4 HS 702 K2 8A (RCMDR 21)
Slot 5 ZS 702 K2 8AA (RCMD 18)
Slot 6 ZS 702 K2 8AB (RCMD 18)
Slot 7 ZS 702 K2 8BA (RCMD 18)
Slot 8 ZS 702 K2 8BB (RCMD 18)

=====
174: BLD TEMP 4 TKN
Room Temperatures

LOI
TKN Slot 1 TI 702 K2 1 (RCMA 2) U32-1-19
Slot 2 TI 702 K2 2 (RCMA 2)
Slot 3 TI 702 K2 3 (RCMA 13)
Slot 4 TI 702 K2 4 (RCMA 2) U32-12-17

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Slot 5 TI 702 K2 5(RCMA 13) → U32 -12-17
 =====
 181: BLD_EXH 1 U32-34-38 TKN
 Isolation Damper 1A Control
 Slot 1 ZS 702 K3 2A(RCMDR 40)
 Slot 2 HS 702 K3 2A(RCMDR 40)
 Slot 3 HS 702 K3 2AA(RCMDR 40)
 Slot 4 HS 702 K3 2AB(RCMDR 40)
 LOI Slot 5 YS 702 K3 2AA(RCMDR 40)
 TKN Slot 6 ZS 702 K3 2AA(RCMD 39)
 Slot 7 ZS 702 K3 2AB(RCMD 39)
 =====
 182: BLD_EXH 2 U32-34-39 TKN
 Fan 1A Control
 Slot 1 YS 702 K35 1AM(U32 34)
 Slot 2 YS 702 K35 1A(RCMDR 40)
 Slot 3 HS 702 K35 1A(RCMDR 40)
 LOI Slot 4 HS 702 K35 1AA(RCMDR 40)
 TKN Slot 5 HS 702 K35 1AB(RCMDR 40)
 Slot 6 FIC 702 K3 3A(RCMA 36)
 Slot 7 II 702 K35 1A(RCMA 36)
 Slot 8 KQI 702 K35 1A(RCMA 36)
 =====
 183: BLD_EXH 3 U32-34-40 TKN
 Isolation Damper 1B Control
 Slot 1 ZS 702 K3 2B(RCMDR 40)
 LOI Slot 2 HS 702 K3 2B(RCMDR 40)
 TKN Slot 3 HS 702 K3 2BA(RCMDR 40)
 Slot 4 HS 702 K3 2BB(RCMDR 40)
 Slot 5 YS 702 K3 2BA(RCMDR 40)
 Slot 6 ZS 702 K3 2BA(RCMD 39)
 Slot 7 ZS 702 K3 2BB(RCMD 39)
 =====
 184: BLD_EXH 4 U32-34-41 TKN
 Fan 1B Control
 Slot 1 Y 702 K35 1BC(RCMDR 40)
 LOI Slot 2 YS 702 K35 1B(RCMDR 40)
 TKN Slot 3 HS 702 K35 1B(RCMDR 40)
 Slot 4 HS 702 K35 1BA(RCMDR 40)
 Slot 5 HS 702 K35 1BB(RCMDR 40)
 Slot 6 FIC 702 K3 3B(RCMA 36)
 Slot 7 II 702 K35 1B(RCMA 36)
 Slot 8 KQI 702 K35 1B(RCMA 36)
 =====
 185: BLD_EXH 5 U-32-34-42 TKN
 HEPA Status
 Slot 1 YS 702 K3 1A(RCMA 36)
 LOI Slot 2 PDI 702 K33 1A(RCMA 36)
 TKN Slot 3 PDI 702 K34 1A(RCMA 36)
 Slot 5 YS 702 K3 1B(RCMA 36)
 Slot 6 PDI 702 K33 1B(RCMA 36)
 Slot 7 PDI 702 K34 1B(RCMA 36)
 =====
 191: BLD_STK 1 U32-34-46 TKN
 Bldg Exhaust Status
 Slot 1 FI 702 K3 3(RCMA 36)
 LOI Slot 2 FQI 702 K3 3(RCMA 36)
 TKN Slot 4 TI 702 K3 1(RCMA 36)
 Slot 6 RI 702 K3 1(RCMA 36)
 Slot 7 RAX 702 K3 1(RCMD 39)
 Slot 8 RAH 702 K3 1(RCMD 39)
 =====
 192: BLD_STK 2 U32-34-47 TKN
 Sample Flows

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Slot 1 FI 702 K3 1(RCMA 36)
 Slot 2 FOI 702 K3 1(RCMA 36)
 Slot 4 FI 702 K3 2(RCMA 36)
 Slot 5 FOI 702 K3 2(RCMA 36)
 =====
 201: K ALIVES_1 U32-1-21 TKN

LCU 1
 Slot 1 YS AZ K1WD 1A1(RCMD 6)
 Slot 2 XA U32 1 1(U32 1)
 Slot 4 XS_RCM D7 1(RCMDR 9)
 Slot 5 XS_RCM D7 2(RCMDR 10)
 Slot 6 HS_RCM D7 2(RCMD 7)
 Slot 7 XS_RCM A2 1(RCMD 7)
 Slot 8 HS_RCM A2 2(RCMA 2)
 =====

202: K ALIVES_2 U32-1-22 TKN
 LCU 1
 Slot 1 XS_RCM A3 1(RCMD 7)
 Slot 2 HS_RCM A3 2(RCMA 3)
 Slot 3 XS_RCM D6 1(RCMD 7)
 Slot 4 HS_RCM D6 2(RCMD 6)
 Slot 5 XS_RCM DR9 1(RCMD 7)
 Slot 6 HS_RCM DR9 2(RCMDR 9)
 Slot 7 XS_RCM DR10 1(RCMD 7)
 Slot 8 HS_RCM DR10 2(RCMDR 10)
 =====

203: K ALIVES_3 U32-12-18 TKN
 LCU 2
 Slot 1 YS AZ K1WD 2B1(RCMDR 21)
 Slot 2 XA U32 12 1(U32 12)
 Slot 4 XS_RCM D18 1(RCMDR 20)
 Slot 5 XS_RCM D18 2(RCMDR 21)
 Slot 6 HS_RCM D18 2(RCMD 18)
 Slot 7 XS_RCM A13 1(RCMD 18)
 Slot 8 HS_RCM A13 2(RCMA 13)
 =====

204: K ALIVES_4 U32-12-19
 LCU 2
 Slot 1 XS_RCM A14 1(RCMD 18)
 Slot 2 HS_RCM A14 2(RCMA 14)
 Slot 3 XS_RCM D17 1(RCMD 18)
 Slot 4 HS_RCM D17 2(RCMD 17)
 Slot 5 XS_RCM DR20 1(RCMD 18)
 Slot 6 HS_RCM DR20 2(RCMDR 20)
 Slot 7 XS_RCM DR21 1(RCMD 18)
 Slot 8 HS_RCM DR21 2(RCMDR 21)
 =====

211: FBUS VER 1
 LCU1 / STATUS
 Slot 1 YA U32 1 9(RCMDR 9) → U32-1-25
 Slot 2 YA U32 1 10(RCMDR 10) →
 Slot 3 YA U32 1 1(U32 12) → U32-12-22
 Slot 5 YA_RCM DR9 1(U32 1) →
 Slot 6 YA_RCM DR10 1(U32 1) →
 =====

212: FBUS VER 2 U32-1-26
 LCU2 / STATUS
 Slot 1 YA U32 12 20(RCMDR 20) → U32-12-23
 Slot 2 YA U32 12 21(RCMDR 21) →
 Slot 3 YA U32 12 1(U32 1) → U32-1-26
 Slot 5 YA_RCM DR20 1(U32 12) →
 Slot 6 YA_RCM DR21 1(U32 12) →
 =====

215: fbtest

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Slot 1 YQ RCM DR9 1(U32 1)
 Slot 2 YQ RCM DR10 1(U32 1)
 Slot 3 YQ U32 12 1(U32 1)
 Slot 4 YQ U32 1 9(RCMDR 9)
 Slot 5 YQ U32 1 10(RCMDR 10)

=====
 231: LEAK DET 1 U32-34-56 TKN

AY Leak Detectors
 Slot 1 LDA AY 401 1(RCMD 47)
 LOS Slot 2 LDA AY 1200 1(RCMD 47)
 TKN Slot 3 LDA AY 1202 1(RCMD 47)
 Slot 4 LDA AY 402 1(RCMD 48)
 Slot 5 LDA AY 2200 1(RCMD 48)
 Slot 6 LDA AY 2202 1(RCMD 48)
 Slot 8 LDA AY 1102 1(RCMD 28) → U32-23-20

=====
 232: LEAK DET 2 U32-23-19 TKN

AZ Leak Detectors
 Slot 1 LDA AZ 401 1(RCMD 52)
 LOS Slot 2 LDA AZ 1200 1(RCMD 52)
 TKN Slot 3 LDA AZ 1202 1(RCMD 52)
 Slot 4 LDA AZ 402 1(RCMD 53)
 Slot 5 LDA AZ 2200 1(RCMD 53)
 Slot 6 LDA AZ 2202 1(RCMD 53)
 Slot 8 LDA AZ 2102 1(RCMD 28) → U32-12-35
 → SLO

=====
 233: LEAK DET 3

Main Exhaust Train
 Slot 1 RI AZ K19 1(RCMA 24)
 LOS Slot 2 RAH AZ K19 1(RCMD 28) → U32-23-45
 TKN Slot 3 RAX AZ K19 1(RCMD 28)
 Slot 4 RI AZ K1 1(RCMA 14) → U32-12-35
 Slot 5 RAX AZ K1 1(RCMD 17)
 Slot 6 RAH AZ K1 1(RCMD 17)
 Slot 7 LDA AZ 503 1(RCMD 28)
 Slot 8 LDA V0608 1(RCMD 28)
 TKN

=====
 234: LEAK DET 4

Bldg
 Slot 1 LDA 702 1(RCMD 28) → U32-23-46
 LOS Slot 2 LDA 702 2A(RCMD 28)
 TKN Slot 3 LDA 702 2B(RCMD 28)
 Slot 5 RI 702 K3 1(RCMA 36)
 Slot 6 RAX 702 K3 1(RCMD 39)
 Slot 7 RAH 702 K3 1(RCMD 39) → U32-34-44

=====
 241: T RESET 1 U32-23-49 TKN

Interface Flow Totalizers
 Slot 1 FOI AZ RW 1(RCMA 24)
 LOS Slot 2 HS AZ RW 1(RCMA 24)
 TKN Slot 3 FOI AZ PC 1(RCMA 24)
 Slot 4 HS AZ PC 1(RCMA 24)
 TKN

=====
 242: T RESET 2 U32-34-10

Tank AY101 Totalizers
 Slot 1 KQI AY1 K45 1(RCMA 46)
 LOS Slot 2 HS AY1 K45 1V1(RCMA 46)
 TKN Slot 3 KQI AY1 EWP 1A(RCMA 46)
 Slot 4 HS AY1 EWP 1A(RCMDR 49)
 Slot 5 KQI AY1 EWP 1B(RCMA 46)
 Slot 6 HS AY1 EWP 1B(RCMDR 49)
 Slot 7 FOI AY1 EWR 1(RCMA 46)
 Slot 8 HS AY1 EWR 1(RCMA 46)

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243: T RESET 3 U32-34-61 TKN

Tank AY102 Totalizers

LOI Slot 1 KQI AY2 K45 1(RCMA 46)
 Slot 2 HS AY2 K45 1V1(RCMA 46)
 Slot 3 KQI AY2 EWP 1A(RCMA 46)
 TKN Slot 4 HS AY2 EWP 1A(RCMDR 49)
 Slot 5 KQI AY2 EWP 1B(RCMA 46)
 Slot 6 HS AY2 EWP 1B(RCMDR 49)
 Slot 7 FQI AY2 EWR 1(RCMA 46)
 Slot 8 HS AY2 EWR 1(RCMA 46)

244: T RESET 4 U32-25-50

Tank AZ101 Totalizers

LOI Slot 1 KQI AZ1 K45 1(RCMA 51)
 Slot 2 HS AZ1 K45 1V1(RCMA 51)
 Slot 3 KQI AZ1 EWP 1A(RCMA 51)
 TKN Slot 4 HS AZ1 EWP 1A(RCMDR 54)
 Slot 5 KQI AZ1 EWP 1B(RCMA 51)
 Slot 6 HS AZ1 EWP 1B(RCMDR 54)
 Slot 7 FQI AZ1 EWR 1(RCMA 51)
 Slot 8 HS AZ1 EWR 1(RCMA 51)

245: T RESET 5 U32-23-51

Tank AZ102 Totalizers

LOI Slot 1 KQI AZ2 K45 1(RCMA 51)
 Slot 2 HS AZ2 K45 1V1(RCMA 51)
 Slot 3 KQI AZ2 EWP 1A(RCMA 51)
 TKN Slot 4 HS AZ2 EWP 1A(RCMDR 54)
 Slot 5 KQI AZ2 EWP 1B(RCMA 51)
 Slot 6 HS AZ2 EWP 1B(RCMDR 54)
 Slot 7 FQI AZ2 EWR 1(RCMA 51)
 Slot 8 HS AZ2 EWR 1(RCMA 51)

246: T RESETS 6 U32-23-52

Main Cooling Totalizers

LOI Slot 1 KQI AZ CWP 1A(RCMA 24)
 Slot 2 HS AZ CWP 1A(RCMDR 31)
 Slot 3 KQI AZ CWP 1B(RCMA 24)
 TKN Slot 4 HS AZ CWP 1B(RCMDR 31)
 Slot 5 FQI AZ CWR 1(RCMA 24)
 Slot 6 HS AZ CWR 1(RCMDR 31)
 Slot 7 FQI AZ CWR 1(RCMA 24)
 Slot 8 HS AZ CWR 1(RCMDR 31)

247: T RESETS 7

Exhaust Fan Totalizers

LOI Slot 1 KQI AZ K15 1A(RCMA 3) → U32-1-29
 Slot 2 HS AZ K15 1A1(RCMA 3) → U32-12-34
 TKN Slot 3 KQI AZ K15 1B(RCMA 14)
 Slot 4 HS AZ K15 1B1(RCMA 14)
 Slot 5 KQI 702 K35 1A(RCMA 36)
 Slot 6 HS 702 K35 1V1(RCMA 36)
 Slot 7 KQI 702 K35 1B(RCMA 36)
 Slot 8 HS 702 K35 1V2(RCMA 36) → U32-34-30

248: T RESETS 8

U32-12-26

Main Stack Monitoring Totalizers

LOI Slot 1 FQI AZ K1 1(RCMA 14)
 Slot 2 HS AZ K1 1V1(RCMA 14)
 TKN Slot 3 FQI AZ K1 2(RCMA 14)
 Slot 4 HS AZ K1 2V1(RCMA 14)
 Slot 5 FQI AZ K1 3(RCMA 14)
 Slot 6 HS AZ K1 3V1(RCMA 14)

249: T RESETS 9 U32-34-62 TKN
Bldg Stack Monitors Totalizers
Slot 1 FQI 702 K3 1(RCMA 36)
LOI Slot 2 HS 702 K3 1V1(RCMA 36)
TKN Slot 3 FQI 702 K3 2(RCMA 36)
Slot 4 HS 702 K3 2V1(RCMA 36)
Slot 5 FQI 702 K3 3(RCMA 36)
Slot 6 HS 702 K3 3V1(RCMA 36)
===== TKN

261: REC MAC 1 U32-34-65
AY101 Macro Configure
Slot 1 HS AY1 K4 1M1(U32 34)
LOI Slot 3 HS AY1 K4 1A(RCMD 47)
TKN Slot 4 HS AY1 K4 1B(RCMD 47)
Slot 5 HS AY1 K4 1C(RCMD 47)
Slot 6 Z AY1 K4 1(RCMD 47)
Slot 7 Z AY1 K4 2(RCMD 47)
Slot 8 Z AY1 K4 3(RCMD 47)
===== TKN

262: REC MAC 2 U32-34-66
AY101 Macro Configure
LOI Slot 1 YS AY1 1M1(U32 34)
TKN Slot 2 YS AY1 1M2(U32 34)
Slot 4 KQI AY1 EWP 1A(RCMA 46)
Slot 5 KQI AY1 EWP 1B(RCMA 46)
Slot 6 HS AY1 EWP 1M1(U32 34)
===== TKN

263: REC MAC 3 U32-34-67
AY101 Macro Execution
LOI Slot 1 YA AY1 K4 1M(U32 34)
TKN Slot 2 HS AY1 K4 1M2(U32 34)
Slot 3 HS AY1 K4 1M3(U32 34)
Slot 4 HS AY1 K4 1M4(U32 34)
Slot 5 YS AY1 K4 1M1(U32 34)
Slot 6 YS AY1 K4 1M2(U32 34)
Slot 7 YS AY1 K4 1M3(U32 34)
Slot 8 YS AY1 K4 1M4(U32 34)
===== TKN

264: REC MAC 4 U32-34-68
AY101 Macro Execution
LOI Slot 1 YA AY1 K4 1M(U32 34)
TKN Slot 2 HS AY1 K4 1M2(U32 34)
Slot 3 HS AY1 K4 1M3(U32 34)
Slot 4 HS AY1 K4 1M4(U32 34)
Slot 5 YS AY1 K4 1M5(U32 34)
Slot 6 YS AY1 K4 1M6(U32 34)
===== TKN

265: RAC MAC 5 U32-34-69
AY102 Macro Configure
LOI Slot 1 HS AY2 K4 1M1(U32 34)
TKN Slot 3 HS AY2 K4 1A(RCMD 48)
Slot 4 HS AY2 K4 1B(RCMD 48)
Slot 5 HS AY2 K4 1C(RCMD 48)
Slot 6 Z AY2 K4 1(RCMD 48)
Slot 7 Z AY2 K4 2(RCMD 48)
Slot 8 Z AY2 K4 3(RCMD 48)
===== TKN

266: REC MAC 6 U32-34-70
AY102 Macro Configure
LOI Slot 1 YS AY2 1M1(U32 34)
TKN Slot 2 YS AY2 1M2(U32 34)
Slot 4 KQI AY2 EWP 1A(RCMA 46)
Slot 5 KQI AY2 EWP 1B(RCMA 46)
Slot 6 HS AY2 EWP 1M1(U32 34)

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===== TKN
267: REC MAC 7 U32-34-70
AY102 Macro Execution
LOI Slot 1 YA AY2 K4 1M(U32 34)
Slot 2 HS AY2 K4 1M2(U32 34)
TKN Slot 3 HS AY2 K4 1M3(U32 34)
Slot 4 HS AY2 K4 1M4(U32 34)
Slot 5 YS AY2 K4 1M1(U32 34)
Slot 6 YS AY2 K4 1M2(U32 34)
Slot 7 YS AY2 K4 1M3(U32 34)
Slot 8 YS AY2 K4 1M4(U32 34)

===== TKN
268: REC MAC 8 U32-34-72
AY102 Macro Execution
LOI Slot 1 YA AY2 K4 1M(U32 34)
Slot 2 HS AY2 K4 1M2(U32 34)
Pry Slot 3 HS AY2 K4 1M3(U32 34)
Slot 4 HS AY2 K4 1M4(U32 34)
Slot 5 YS AY2 K4 1M5(U32 34)
Slot 6 YS AY2 K4 1M6(U32 34)

===== TKN
269: REC MAC 9 U32-23-54
AZ101 Macro Configure
LOI Slot 1 HS AZ1 K4 1M1(U32 23)
Slot 3 HS AZ1 K4 1A(RCMD 52)
Pry Slot 4 HS AZ1 K4 1B(RCMD 52)
Slot 5 HS AZ1 K4 1C(RCMD 52)
Slot 6 Z AZ1 K4 1(RCMD 52)
Slot 7 Z AZ1 K4 2(RCMD 52)
Slot 8 Z AZ1 K4 3(RCMD 52)

===== TKN
270: REC MAC 10 U32-23-55
AZ101 Macro Configure
LOI Slot 1 YS AZ1 1M1(U32 23)
Pry Slot 2 YS AZ1 1M2(U32 23)
Slot 4 KQ1 AZ1 EWP 1A(RCMA 51)
Slot 5 KQ1 AZ1 EWP 1B(RCMA 51)
Slot 6 HS AZ1 EWP 1M1(U32 23)

===== TKN
271: REC MAC 11 U32-23-56
AZ101 Macro Execution
LOI Slot 1 YA AZ1 K4 1M(U32 23)
Slot 2 HS AZ1 K4 1M2(U32 23)
Pry Slot 3 HS AZ1 K4 1M3(U32 23)
Slot 4 HS AZ1 K4 1M4(U32 23)
Slot 5 YS AZ1 K4 1M1(U32 23)
Slot 6 YS AZ1 K4 1M2(U32 23)
Slot 7 YS AZ1 K4 1M3(U32 23)
Slot 8 YS AZ1 K4 1M4(U32 23)

===== TKN
272: REC MAC 12 U32-23-57
AZ102 Macro Execution
LOI Slot 1 YA AZ1 K4 1M(U32 23)
Pry Slot 2 HS AZ1 K4 1M2(U32 23)
Slot 3 HS AZ1 K4 1M3(U32 23)
Slot 4 HS AZ1 K4 1M4(U32 23)
Slot 5 YS AZ1 K4 1M5(U32 23)
Slot 6 YS AZ1 K4 1M6(U32 23)

===== TKN
273: REC MAC 13 U32-23-58
AZ102 Macro Configure
LOI Slot 1 HS AZ2 K4 1M1(U32 23)
Pry Slot 3 HS AZ2 K4 1A(RCMD 53)
Slot 4 HS AZ2 K4 1B(RCMD 53)

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LOI - Slot 5 HS AZ2 K4 1C(RCMD 53)
 Slot 6 Z AZ2 K4 1(RCMD 53)
 Slot 7 Z AZ2 K4 2(RCMD 53)
 Slot 8 Z AZ2 K4 3(RCMD 53)

274: REC MAC 14 U32-23-59 TKN

AZ102 Macro Configure

LOI Slot 1 YS AZ2 1M1(U32 23)
 Slot 2 YS AZ2 1M2(U32 23)
 Slot 4 KQI AZ2 EWP 1A(RCMA 51)
 Slot 5 KQI AZ2 EWP 1B(RCMA 51)
 Slot 6 HS AZ2 EWP 1M1(U32 23)

275: REC MAC 15 U32-23-60 TKN

AZ102 Macro Execution

LOI Slot 1 YA AZ2 K4 1M(U32 23)
 Slot 2 HS AZ2 K4 1M2(U32 23)
 Slot 3 HS AZ2 K4 1M3(U32 23)
 Slot 4 HS AZ2 K4 1M4(U32 23)
 Slot 5 YS AZ2 K4 1M1(U32 23)
 Slot 6 YS AZ2 K4 1M2(U32 23)
 Slot 7 YS AZ2 K4 1M3(U32 23)
 Slot 8 YS AZ2 K4 1M4(U32 23)

276: REC MAC 16 U32-23-61 TKN

AZ102 Macro Execution

LOI Slot 1 YA AZ2 K4 1M(U32 23)
 Slot 2 HS AZ2 K4 1M2(U32 23)
 Slot 3 HS AZ2 K4 1M3(U32 23)
 Slot 4 HS AZ2 K4 1M4(U32 23)
 Slot 5 YS AZ2 K4 1M5(U32 23)
 Slot 6 YS AZ2 K4 1M6(U32 23)

281: EXH MAC 1

Macro Configure

LOI Slot 1 HS AZ K1 1M1(U32 1) → U32-1-31
 Slot 3 YS AZ K18 1M(U32 1)
 Slot 4 HS AZ K18 1M1(U32 1)
 Slot 6 KQI AZ CWP 1A(RCMA 24) → U32-23-33
 Slot 7 KQI AZ CWP 1B(RCMA 24)
 Slot 8 HS AZ CWP 1M1(U32 1)

282: EXH MAC 2 U32-1-32

Macro Configure

LOI Slot 1 YS AZ K12 1AM(U32 1)
 Slot 2 YS AZ K12 1BM(U32 1)
 Slot 3 HS AZ K12 1M1(U32 1)
 Slot 5 YS AZ K15 1AM(U32 1)
 Slot 6 YS AZ K15 1BM(U32 1)
 Slot 7 HS AZ K15 1M1(U32 1)

283: EXH MAC 3 U32-1-33

Macro Execution

LOI Slot 1 YA AZ K1 1M(U32 1)
 Slot 2 HS AZ K1 1M2(U32 1)
 Slot 3 HS AZ K1 1M3(U32 1)
 Slot 4 HS AZ K1 1M4(U32 1)
 Slot 5 YS AZ K1 1M1(U32 1)
 Slot 6 YS AZ K1 1M2(U32 1)
 Slot 7 YS AZ K1 1M3(U32 1)
 Slot 8 YS AZ K1 1M4(U32 1)

284: EXH MAC 4 U32-1-34

Macro Execution

LOI
 TKN

```

- Slot 1 YA AZ K1 1M(U32 1)
- Slot 2 HS AZ K1 1M2(U32 1)
Slot 3 HS AZ K1 1M3(U32 1)
Slot 4 HS AZ K1 1M4(U32 1)
Slot 5 YS AZ K1 1M5(U32 1)
Slot 6 YS AZ K1 1M6(U32 1)
Slot 7 YS AZ K1 1M7(U32 1)
Slot 8 YS AZ K1 1M8(U32 1)
===== TKN

285: EXH MAC 5 U32-1-35
Macro Execution
Slot 1 YA AZ K1 1M(U32 1)
Slot 2 HS AZ K1 1M2(U32 1)
LOI Slot 3 HS AZ K1 1M3(U32 1)
TKN Slot 4 HS AZ K1 1M4(U32 1)
Slot 5 YS AZ K1 1M9(U32 1)
Slot 6 YS AZ K1 1M10(U32 1)
Slot 7 YS AZ K1 1M11(U32 1)
Slot 8 YS AZ K1 1M12(U32 1)
===== TKN

291: BLD MAC 1 U32-34-75
Macro Configure
LOI Slot 1 HS 702 K3 1M1(U32 34)
TKN Slot 2 YS 702 K26 1M(U32 34)
Slot 3 HS 702 K26 1M1(U32 34)
Slot 4 YS 702 K35 1AM(U32 34)
Slot 5 YS 702 K35 1BM(U32 34)
Slot 6 HS 702 K35 1M1(U32 34)
Slot 7 KQI 702 K35 1A(RCMA 36)
Slot 8 KQI 702 K35 1B(RCMA 36)
===== TKN

292: BLD MAC 2 U32-34-76
Macro Execution
LOI Slot 1 YA 702 K3 1M(U32 34)
TKN Slot 2 HS 702 K3 1M2(U32 34)
Slot 3 HS 702 K3 1M3(U32 34)
Slot 4 HS 702 K3 1M4(U32 34)
Slot 5 YS 702 K3 1M1(U32 34)
Slot 6 YS 702 K3 1M2(U32 34)
Slot 7 YS 702 K3 1M3(U32 34)
Slot 8 YS 702 K3 1M4(U32 34)
===== TKN

293: BLD MAC 3 U32-34-77
Macro Execution
LOI Slot 1 YA 702 K3 1M(U32 34)
TKN Slot 2 HS 702 K3 1M1(U32 34)
Slot 3 HS 702 K3 1M2(U32 34)
Slot 4 HS 702 K3 1M3(U32 34)
Slot 5 YS 702 K3 1M5(U32 34)
Slot 6 YS 702 K3 1M6(U32 34)
===== TKN

301: RE MAC 1 U32-1-38
Train 1A Macro Execution
LOI Slot 1 YA AZ K1 1AR(U32 1)
TKN Slot 2 HS AZ K1 1AR1(U32 1)
Slot 3 HS AZ K1 1AR2(U32 1)
Slot 4 HS AZ K1 1AR3(U32 1)
Slot 5 YS AZ K1 1AR1(U32 1)
Slot 6 YS AZ K1 1AR2(U32 1)
Slot 7 YS AZ K1 1AR3(U32 1)
Slot 8 YS AZ K1 1AR4(U32 1)
===== TKN

302: RE MAC 2 U32-1-39
Train 1A Macro Execution
LOI
TKN

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Slot 1 YA AZ K1 1AR(U32 1)
 Slot 2 HS AZ K1 1AR1(U32 1)
 Slot 3 HS AZ K1 1AR2(U32 1)
 Slot 4 HS AZ K1 1AR3(U32 1)
 Slot 5 YS AZ K1 1AR4(U32 1)
 Slot 6 YS AZ K1 1AR5(U32 1)
 Slot 7 YS AZ K1 1AR6(U32 1)
 Slot 8 YS AZ K1 1AR7(U32 1)

303: RE_MAC 3 U32-1-40

Train 1A Macro Execution

LOI Slot 1 YA AZ K1 1AR(U32 1)
 Slot 2 HS AZ K1 1AR1(U32 1)
 TKN Slot 3 HS AZ K1 1AR2(U32 1)
 Slot 4 HS AZ K1 1AR3(U32 1)
 Slot 5 IS012184(U32 12)
 Slot 6 IS012185(U32 12)

304: RE_MAC 4 U32-12-28

Train 1B Macro Execution

LOI Slot 1 YA AZ K1 1BR(U32 12)
 Slot 2 HS AZ K1 1BR1(U32 12)
 TKN Slot 3 HS AZ K1 1BR2(U32 12)
 Slot 4 HS AZ K1 1BR3(U32 12)
 Slot 5 YS AZ K1 1BR1(U32 12)
 Slot 6 YS AZ K1 1BR2(U32 12)
 Slot 7 YS AZ K1 1BR3(U32 12)
 Slot 8 YS AZ K1 1BR4(U32 12)

305: RE_MAC 5 U32-12-29

Train 1B Macro Execution

LOI Slot 1 YA AZ K1 1BR(U32 12)
 TKN Slot 2 HS AZ K1 1BR1(U32 12)
 Slot 3 HS AZ K1 1BR2(U32 12)
 Slot 4 HS AZ K1 1BR3(U32 12)
 Slot 5 YS AZ K1 1BR4(U32 12)
 Slot 6 YS AZ K1 1BR5(U32 12)
 Slot 7 YS AZ K1 1BR6(U32 12)
 Slot 8 YS AZ K1 1BR7(U32 12)

306: RE_MAC 6 U32-12-30

Train 1B Macro Execution

LOI Slot 1 YA AZ K1 1BR(U32 12)
 TKN Slot 2 HS AZ K1 1BR1(U32 12)
 Slot 3 HS AZ K1 1BR2(U32 12)
 Slot 4 HS AZ K1 1BR3(U32 12)

640: TTTG

Slot 1 PIC AZ1K1 2 SP(RCMA 2)
 Slot 2 PAB183 TRC MDR 31)
 Slot 3 VA3104 (RCMDR 31)
 Slot 4 VA3105 (RCMDR 31)

← N/A

ATTACHMENT "I"

MICON PROCESS GRAPHIC SCREENS

BEST AVAILABLE COPY

TK 11/15/96

Screen Items not completed for this screen (TE-14)

- All condensers, wrap towers, & tank symbols.
- Moisture separator on recirc loops.
- Bldg temp & pressure for room symbols
- Bldg HEPA's.

BEST AVAILABLE COPY

Screen Items not completed for this screen (TE 14)

All condensers, evap towers, & chiller symbols.

Tenk symbols:

Bldg exhaust Fans & NEPA's

BEST AVAILABLE COPY

Screen items not completed for this screen (TE 14)

- All condensers, wrap towers, & chiller
- Main tank symbols.
- ~~Primary exhaust fan~~ Bldg exhaust fans
- Navigation buttons
- Legends on totalizer — incorrect

Items not completed on this screen (TE14)

- Navigation buttons
- Pressure & flow analog readouts.

CONTROLLED COPY

T.K. Neogy 11/15/96

All items
tested
FBI

Function works,
wrong label! VMM TE4

All items
tested.
LGH

- Tank symbol & condenser symbol
- Vent flow analog reading
- Vent valve % open reading

CONTROLLED COPY

Screen items not completed on this screen (TE 14)

- Tank symbol & condenser symbol
- Exit flow & valve % open readings
- Restart PB doesn't go to restart screen
- Bypass indicator

- Tank symbol & condenser symbol
- Vent flow & valve open re-exports.
- Bypass indicator

UNCONTROLLED COPY

Screen items not checked for this screen (TE14)

- Pump current readouts
- change FI to FI

Screen items not checked on this screen. (TE14)

- Heizer outlet temperature redout

~~SECRET~~ CONTROLLED COPY

T.K. *[Signature]* 1/15/96

Screen items not completed on this screen (TE14)

- o valve 90 open readouts
- o ~~HEPA DP readouts done RTH~~

CONTROLLED COPY

T.K. 11/15/96

Screen items not done on this screen. (TE 14)

- HEPA DP readouts

CONTROLLED COPY

T.K. 1/15/96

All active items tested & passed.
 LTH 1/14/96

CONTROLLED COPY

T.K. 1/15/96

All active items tested & passed.
LPH 1/16/96

*All active items tested
& passed. JFL 4/16/96*

T.K. 7/15/96

All active items tested
 Passed LTH 1/10/96

7

7

TKW

TKW

TKW

TKW

Overview

Groups

Leak Det.

Totalizers

Bldg Macro Control

Recirc

Exhaust

Building

Restart

Macros

TKW

CONFIG

Status:

AC Off

AC On

Fan1A

Ovrd

NoNHrs

Fan1B

Ovrd

NoNHrs

GO

Skip

HOLD

Set Damper to Auto
Set Active Fan Mode
Start Active Fan
Set Standby Fan Mode
Set AC Mode
Set AC On/Off
Done

Ovrd

Ovrd

Set Damper to Auto
Set Active Fan Mode
Start Active Fan
Set Standby Fan Mode
Set AC Mode
Set AC On/Off
Done

TKW

27mBldg.v

TKW
 1/15/96

Ref. TE12 - Screen needs major rework to delete
Fieldbus stuff per Revision on TE1

All remaining active items tested & passed LFA/16/96

Are active items too
 & passed 1/16/92

29KAV

ATTACHMENT "J"

MICON GRAPHIC TREND DISPLAY

LOOP PROC-702K2-a

B.D.F.
1-6-96
9:51 pm.

$$\nabla) \quad \nabla) \quad \nabla) \quad \nabla) \quad \nabla)$$

Tag 1: PDI_702_K2_2

Taq St. File: 1702K12_52

Tag 2: PDIC702K22_OUT

LOOP PIC-AZ2K1-1 B.D.F.
1-5-96

____ V) ____ V) ____ V) ____ V) ____ V) ____ V) ____ V)

Tag 1: PI_AZ2_K1_1 Tag 2: PICAZZK11_SP

Tag 2: PICAZZK11_OUT

Y155A

LOOP PIC-AZ1K1-1

B.D.F.
1-5-96

____ (v) ____ (v) ____ (v) ____ (v) ____ (v) ____ (v)

Tag 1: PI_AZ1_K1_1

Tag 1: PICAZ1K11_SP

Tag 2: PICAZ1K11_OUT

LOOP PIC-AY2K1-1 B.D.F.
1-5-76

____ (v) ____ (v) ____ (v) ____ (v) ____ (v) ____ (v)

Tag 1: PI_AY2_K1_1

Tag 2: PICAY2K11_SF

Tag 2: PICAY2K11_OUT

Loop PIC-AY1K1-1

B.D.F.
1-5-95

____ (v) ____ (v) ____ (v) ____ (v) ____ (v) ____ (v) ____ (v)

Tag 1: PI_AY1_K1_1 _____ Tag 2: PICAY2K11_SF _____

Tag 2: PICAY2K11_OUT _____

Loop PIC-AZK1-1B

B.D.F.
15-76

____ () ____ () ____ () ____ () ____ () ____ () ____ ()
 Tag 1: PI_AZ_K1_1B Tag 3: PICAZK1_1B_SF
 Tag 2: PICAZK1_1B_OUT

Loop FIC-AZ1-K1-1 = 1/4/98 ~~Reset~~
after change to reverse setting

____ v) ____ v) ____ v) ____ v) ____ v) ____ v) ____ v)
 Tag 1: FI_AZ1_K1_2 Tag 2: FIC_AZ1K1_2_SF
 Tag 2: FIC_AZ1K1_1_OUT

Y150