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Troubleshooting Sheet

	DNAP-2000 - Attachment 5	Page 1 of 2
Work Order Number M2-05-02520	Mark Number	
Problem Description UACY DIGTORTED OUT	PUT	· · · · ·
Job Steps (use additional sheets as required) SEE ATTACHED SHE	ET/TROUBLE SHOOTIN	IG PLAN
·		
Reference Documents:		
Shift Supervisor / Shift Manager Review of Checklist Notes to Craft [] Level 1 Non-Intrusive QLevel 2 Low Risk [] Level 3 Medium Risk [] Level 4 High Risk [] Authorized [] Further Review Required		
Operations Shift Supervisor / Shift Manager (Signature)	2m	Date 3-7-05
Craft Supervisor (Signature if required)	JB14	Date 3 7 05
Maintenance Manager (Signature if required) Safety Committee (S	NSOC / SORC) / review required?	Date
Safety Committee (SNSOC / SORC) review (Signature If required)		Date
Director Nuclear Station Operations and Maintenance (Signature if re	quired)	Date
Problem Found/Work Performed (use additional sheets as required)		n 1
		B15
Crafisperson (Signature)	••	Date

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Troubleshooting Sheet

	DNAP-2	2000 - Attachment 5	Page 2 of 2	
Risk Factors Checklist				
The following is a typical list of factors t	consider when assessing the risk of a	a troubleshooting action or task.		
When completing this attachment, man	appropriate block(s):		Ì	
[] Fech Spec, action, or Emming Con	itors of Operation (LCO)			
[] Plant reliability				
[] Plant transient				
M Personnel, public, plant safety				
[V] Benefit				
[] Complexity / difficulty				
[] Infrequently Conducted or Complex	Tests or Evolutions (ICCE)			
MFamiliarity / skills / preparation / tra	ning			
[] Other maintenance in progress / ec	uipment out of service			
[VAutomatic functions associated with	the component/equipment			
[] Other sources supplied from the sa	me power source			
NAppropriate level of technical assis	lance available			
[] Appropriate stopping points identifi	ed			
[] Appropriate communications methe	ds assigned if required			
[] Equipment status (reference for other	er abnormal conditions)			
[] MRule (if equipment rendered inop	erable)			
Level 1 - non-intrusive (negligible / minimal risk of a transient)				
Level 2 - Low Risk. Troubleshoot	ng could have effect on plant equipme	nt, but not present risk of plant transient	-	
Level 3 - Medium Risk. Troubleshoot	ng could result in plant transient, but n	ot a reactor trip or safety system actuati	ion.	
Level 4 - High Risk. Troubleshool change, or c	ing presents risk of tripping the plant, a nusing radiation releases, either directl	ectuating a safety system, causing signif y or as a result of causing a major plant	ficant reactivity transient.	
Non-Intrusive Troubleshooting - Tr a "safed" boundary (i.e., a boundary e either electrically, mechanically / phys are tagging out of a system for trouble	publeshooting that is transparent to the stablished and controlled by an approv ically, or pneumatically isolating the ar shooting within the tagout boundary o	plant / system / process; working within ved procedure or a boundary establishe ea of concern). Examples of non-Intrusi r any monitoring with isolated test equip	n the confines of d and controlled by ive troubleshooting oment.	
Intrusive Troubleshooting - Any tro	uble shooting that requires or causes a	change to the plant, system, or process	i.	
Note: For risk levels 2 through 4, the 3.5.16 of DNAP-2000, Dominion	mpact on plant risk should be included Work Management Process.	in the On-Line Risk Assessment as dis	cussed in	

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Millstone Unit 2 UAC4 Online Test Troubleshooting Plan 3/7/05 M2-05-02520

Steps may be performed in any order per FLS.

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Steps 5 and 7 may be omitted based upon troubleshooting data as evaluated and approved prior to performing by FLS. This will be documented in the AWO.

Caution: The first 5 steps of this troubleshooting plan are with UAC4 energized.

1. Perform physical inspection of UAC4 for Foreign Material or other obvious problems

2. Obtain Voltage, THDv (voltage distortion) values for all 3 phases of UAC4 output unloaded.

- __3. Based on data obtained, determine which phases require more investigation.
- 4. Obtain UAC2 output voltage, current, load data and THDv for comparison.
 - -5. Check controller fuses for phases in question.
 - 6. With UAC4 de-energized check physical terminations for loose or otherwise deficient connections
 - 7. If required, apply test load to UAC4 to simulate plant conditions and perform applicable steps to ensure reliability of UAC4 under load prior to declaring troubleshooting complete.