## Northeast Utilities Millstone - Unit 3

# Independent Corrective Action Verification Program (ICAVP)

Walkdown Checklist

CK-MP3-05-03, Rev. 1

# Functional Walkdown Checklist

Prepared by:	Name	- (	Signature)	TOTALIS AND	Date
Approved by:	D.K.Schop	fer	Signature	- Af	6-9-9 Date
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Walkdown Tear	n		***************************************	***************************************	***************************************
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Concurrence by:

Sheet 1 of

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#### Instructions

This checklist supplements project instruction PI-MP3-05 and shall be used for performing the Phase 1 functional walkdowns described in the project instruction. Application and use of this checklist shall be as follows:

- The checklist consists of three parts; 1) Attribute Forms, 2) Comment Form and 3) Equipment Nameplate Data Form.
- 2. The Walkdown Team shall check each attribute on the Attribute Forms during the walkdown. Each attribute shall be dispositioned as SAT (satisfactory), UNSAT (unsatisfactory) or N/A (not applicable). When all attributes for a specific category have been addressed, the Walkdown Team shall sign and date the Attribute Form. Note: The attribute form is divided into subcategories. Each subcategory requires a Prepared By and Checked By signature.
- 3. The Comment Form shall be used by the Walkdown Team to explain all "UNSAT" responses on the Attribute Form. Comments shall be numbered on the Comment Form and Attribute Form with the subcategory suffix followed by sequential numbers (i.e., for subcategory "Equipment", comment numbers shall be A1, A2, A3, etc.).
- 4. The Equipment Nameplate Data Form shall be used by the Walkdown Team to record nameplate data during the walkdown. All entries into this form require independent verification; the form shall be signed by a Preparer and a Checker.
- 5. When the functional walkdown and all checklists have been completed, the Walkdown Team shall assemble a complete checklist, enter the system name and number the checklist pages in the checklist title block, and sign and date the checklist coversheet.
  - Note: Pages shall normally be numbered sequentially. If subsequent changes are made, insert pages numbered as 1A, 2A, 2B, etc. can be added.
- The CRG Lead shall indicate his concurrence the checklist has been properly applied by signing an dating the coversheet.
- 7. Dimensional verifications will not be performed during the walkdown. The intent is to visually verify that support locations are in general conformance with drawings and that duct, conduit, cable tray and pipe routing functionally agrees with drawings.

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		Att	ribute For	TID.		
		Attribute	SAT	UNSAT	N/A	Comment
A.	Equ	ipment:				
	1.	Labeling and component identification installed and correct.				
	2.	Equipment covers and safety guards installed.	60000000000000000000000000000000000000	STATE OF STA	-	
	3.	As appropriate, equipment operation access platforms are installed.	**************************************	METERS CAN DE RESEAUX DE SANSON	-	
	4.	Manufacturer's equipment tags and name plates installed and legible.	######################################	ST STATEMENT COST MANUFACTURE		
	5.	Proper bolting hardware installed.	-	-	***************************************	-
	6.	General component installation per design drawings.				< 0 <sub>0</sub> , .
	7.	Components have been installed in a manner that provides access for operation and maintenance, and does not present a personnel safety hazard.			MATRICIA SANCEA	*815.6017) #7815
	8.	Existing components, systems, or structures undamaged.	*************	PARAMETERS STEELSCOMMAN	************	***************************************
	9.	Construction debris removed and proper cleanliness level established.		COMPANIES ACTION CONTROL STATEMENT	-	THE CONTRACT SECTION
	10.	Equipment nameplate data agrees with vendor drawings or equipment lists.	***************************************	PERSONAL PROPERTY AND ADDRESS.	***************************************	Methodological Security Securi
			***************************************		***************************************	
Prep	pared b	Date				
Che	cked b	y Date			***************	
		Attribute	SAT	UNSAT	N/A	Comment
8.	Valv	ec'				
	1.	Valve glands and packing installed.				
	2.	Pressure relief/safety valve/rupture disks settings per design (as indicated		***************************************	MARINE CAMINA	
	3.	on attached valve tags).  Pressure relief/safety valve/rupture disks discharge piping properly		***	***************************************	
	,	secured and discharge flow is directed in a safe manner.	MARKS THE SHEET WAS A SHEET WA	CANADA AND AND AND AND AND AND AND AND AN		
	4.	Valve orientation correct (including check valves and non-return valves).	*************************		AMERICA, VALVESTINA	Market Control of Control of Control
	5.	Valve hand wheels installed.	***************************************		-	
	6.	Manual valves have sufficient clearance to be operated.				

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	Attribute	SAT	UNSAT	N/A	Comment
7.	Locking device provided for those valves/breakers/switches required to	be be			
8.	Valves have manufacturer's labels	Management	No. of the contrast name and one of the		****
9.	Solenoid valves installed with corre	ct			
10.				CONTROL OF THE PARTY OF T	
pared b	Date Date		-		
ecked b	y Date				
	Attribute	SAT	UNSAT	N/A	Comment
Pump 1.	Pumps, fans, compressors aligned ar	nd ed			
2.			***************************************	-	***************************************
3.	Pump seals and packing installed.	***************************************	***************************************	***************************************	
4.	Pump seal/bearing cooling lines installed.	-	With the second second second	***************************************	
5.	Pump seal leakoff lines or baseplate drain lines installed.	AND SAME AND ADDRESS OF		-	
ared by	Date			CAP TEL TEL TELEFORMATION AND	
cked by	Date				
	Attribute	SAT	UNSAT	N/A	Comment
Moun	itings and Supports:				
1.	As required, equipment base plate	Amendaria	STATE AND DESCRIPTION OF STATE AND S		
3.	Installed pipe hangers, conduit supports, cable tray supports, and				***************************************
	hanger detail drawings.		-	-	
4.	requirements and setpoints verified.		-		
	9. 10. pared b pared b pared b pared b pared b a. 3. 4. 5.	7. Locking device provided for those valves/breakers/switches required to locked in a certain position.  8. Valves have manufacturer's labels and/or tags installed.  9. Solenoid valves installed with correporting.  10. Solenoid valves have proper voltage rating.  Date  Attribute  Pumps, Fans, Compressors:  1. Pumps, fans, compressors aligned are coupled, and coupling guards installed.  2. Pumps and fans oriented correctly.  3. Pump seals and packing installed.  4. Pump seal/bearing cooling lines installed.  5. Pump seal leakoff lines or baseplate drain lines installed.  5. Pump seal leakoff lines or baseplate drain lines installed.  Attribute  Mountings and Supports:  1. Equipment mounting bolts installed.  Attribute  Mountings and Supports:  1. Equipment mounting bolts installed.  Attribute  Mountings and Supports:  1. Equipment mounting bolts installed.  3. Installed pipe hangers, conduit supports, cable tray supports, and instrument line supports agree with hanger detail drawings.  4. Snubbers installed per design	7. Locking device provided for those valves/breakers/switches required to be locked in a certain position.  8. Valves have manufacturer's labels and/or tags installed.  9. Solenoid valves installed with correct porting.  10. Soleaoid valves have proper voltage rating.  Date  Attribute  Attribute  SAT  Pumps, Fans, Compressors:  1. Pumps, fans, compressors aligned and coupled, and coupling guards installed.  2. Pumps and fans oriented correctly.  3. Pump seals and packing installed.  4. Pump seal/bearing cooling lines installed.  5. Pump seal leakoff lines or baseplate drain lines installed.  5. Pump seal leavent lines or baseplate drain lines installed.  Attribute  Attribute  SAT  Mountings and Supports:  1. Equipment mounting bolts installed.  2. As required, equipment base plate grouted.  3. Installed pipe hangers, conduit supports, cable tray supports, and instrument line supports agree with hanger detail drawings.  4. Snubbers installed per design	7. Locking device provided for those valves/breakers/switches required to be locked in a certain position.  8. Valves have manufacturer's labels and/or tags installed.  9. Solenoid valves installed with correct porting.  10. Solenoid valves have proper voltage rating.  Pared by Date  Attribute SAT UNSAT  Pumps, Fans, Compressors:  1. Pumps, fans, compressors aligned and coupled, and coupling guards installed.  2. Pumps and fans oriented correctly.  3. Pump seals and packing installed.  4. Pump seal/bearing cooling lines installed.  5. Pump seal leakoff lines or baseplate drain lines installed.  ared by Date  Attribute SAT UNSAT  Mountings and Supports:  1. Equipment mounting bolts installed.  2. As required, equipment base plate grouted.  3. Installed pipe hangers, conduit supports, cable tray supports, and instrument line supports agree with hanger detail drawings.  4. Snubbers installed per design	7. Locking device provided for those valves/breakers/switches required to be locked in a certain position.  8. Valves have manufacturer's labels and/or tags installed.  9. Solenoid valves installed with correct porting.  10. Solenoid valves have proper voltage rating.  Date  Attribute  Attribute  SAT UNSAT N/A  Pumps, Fans, Compressors:  1. Pumps, fans, compressors aligned and coupled, and coupling guards installed.  2. Pumps and fans oriented correctly.  3. Pump seals and packing installed.  4. Pump seal/bearing cooling lines installed.  5. Pump seal leakoff lines or baseplate drain lines installed.  Attribute  Attribute  SAT UNSAT N/A  Mountings and Supports:  1. Equipment mounting bolts installed.  2. As required, equipment base plate grouted.  3. Installed pipe hangers, conduit supports, cable tray supports, and instrument line supports agree with hanger detail drawings.  4. Snubbers installed pre design

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		Attribute	SA	T	UNSAT	N/A	Comment
	5.	Hanger spring cans installed and					
	б.	adjusted per design requirements.  Adjustable struts installed and adj		_	-		
	7.	per design requirements.  Seismic anchors and restraints installed per design requirements.			-	***************************************	
	8.	Temporary supports removed.		-		-	
	9.	Support locations agree with design drawings.	gn				
Pre	pared b	y Date	e				
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		Attribute	SA	Т	UNSAT	N/A	Comment
E.	Instr	iment:					
	1.	Instrument sensing lines connected design requirements.	d per				
	2.	Equipment mounted instrumentation installed per design requirements.	on	_	***************************************	***************************************	-
	3.	Physical protection for instruments installed per design requirements.	ation	********	-		***************************************
	4.	Instrument tubing and fittings instruments.	alled		-	-	
	5.	Surge suppressers for instrumentatinstalled per design requirements.	ion	_			
Prep	pared by	Date				_	
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		Assertance					
		Attribute	SA	T	UNSAT	N/A	Comment
7.		ical Equipment:					
	1.	Cable "to" and "from" agrees with					
	2.	physical drawings and cable schedul Conduit sizes agree with physical drawings.		-		William Control	
	3.	Cable size agrees with cable schedu			-		
	4.	Conductor identification tags instal	led.	********			***************************************

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		Attribute		SAT	UNSAT	N/A	Comment
	5.	Train separation per design					
		requirements.	_	-	-	**************************************	******************
	6.	Wiring agrees with wiring diagram		-	-	-	-
	7.	Raceway fill configuration is consi					
		with assumptions in ampacity table					
		(Assumptions will be identified by	SRG.)	-	-	-	
	8.	Permanently lifted or abandoned					
		leads/cables (spares) have been ma and documented.	arked				
	0		-	-	***************************************	***************************************	
	9.	Mechanical protective devices for	di				
		electrical conductors installed per requirements.	design				
	10.	Ventilation installed/not blocked,	(wante	-	-	ANCHES AND DESCRIPTION AND DES	
	10.	fans, etc.)	(vents,				
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		Attribute		SAT	UNSAT	N/A	Comment
G.	Heat 7	Tracing, Insulation, Painting:					
	1.	Heat tracing installed per design requirements.					
	2.	Painting and other protective surfa	ice		***************************************	SEASON SE	-
		coatings satisfactory installed.					
	3.	Insulation installed per design		-	***************************************	-	***************************************
		requirements.			-		-
						_	
Pre	pared by	Date	•				
Che	ecked by	Date	)		***************************************	-	
		Attribute		SAT	UNSAT	N/A	Comment
H.	HVA	C Equipment					
	1.	Ventilation system filters and abso	orber units				
		installed and properly oriented.					
	2.	Fire dampers properly oriented and	d				
		installed.		***************************************	Manager of Street, Str		
	3.	Fusible links installed and are of the	he proper				
		temperature range.					
	4.	Ducktwork access doors installed.					
		Attribute		SAT	UNSAT	N/A	Comment

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	5. 6.	Equipment condensation drains in Ductwork routing functionally age duct routing drawings.					
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	Attr	ibute		SAT	UNSAT	N/A	Comment
I.	Pipi	ng:					
1.	1.	Restricting orifices and flow elem- installed.	nents				
	2.	Flow elements oriented correctly.		***********	***************************************	ARTONIA PROPERTY AND A STATE OF THE STATE OF	Carried & control or court control discounts and control of processing
	3.	Fluid system permanent filters installed.			***************************************	Theresees the second	WATER TO STATE OF THE PARTY OF
	4.	Functional configuration of piping and other inline components agrees with					
	5.	piping drawings.  Piping line size agrees with pipin drawings.	g	***************************************	***************************************	-	PROPER AND DESCRIPTION OF THE PROPERTY OF THE
	6.	Hanger located in accordance wit drawings.	h		A STREET, STRE	Martin and American	
Prepared by Date							
Checked by Date			M. All the report of the Article and the Article and the Article and				
		Attribute		SAT	UNSAT	N/A	Comment
	Fire	Barriers					
	1.	Fire barriers, cable tray barriers a covers, and other fire protection features/equipment installed per I requirements.					
	2.	Penetration seals between rooms/sareas installed.	fire				69 halfs of committees of 19.5 and most assert the contract of

functional.

3.

4.

Fire door installed, identified and

Fire stops in conduit are installed per design.

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		Attribute		SAT	UNSAT	N/A	Comment
K.	Lub	rication:					
	1.	Lubrication reservoirs instal proper operating level.	led and at				
	2.	Dike (Containment) provide	d.	Anna anna anna anna anna anna anna anna	CAMP STANDARDS		

Date

Date

Prepared by

Checked by

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#### Comment Form

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## Equipment Nameplate Data Form

Equipment No.	Nameplate Data			
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