

Page 1 of 2

ASME □ NON-ASME ⊠

CAR # 2032	Date Issued: 11/5/12
Oninimated Day Take Davids	Internal / External : Internal
Originated By: John DeKleine	Title: Director Quality Assurance
Responsible Department:	Operations
Program/Regulatory Reference:	NRC Routine Vendor Inspection reference Docket number 999013777, Report number 2012-201 Nonconformance -02 required a satisfactory review for suitability of application safety related materials.
Description of Deficiency:	Contrary to the above, during the NRC Inspection it revealed Enertech's technical justifications for addressing acceptance of material certification and the basis for the use of sampling when perform dedication activities were not documented.

Recommendations:

Establish cause

Prepare appropriate corre	ctive and preventative actions
2. Trepate appropriate corre	Response Due: 11/30/12
hereby requested to investigate	
Cause & Extent of Noted Deficiency:	While Engineering technical justification for material verification and sampling were documented in CGI Evaluating and EOP 3140, it did not meet the NRC expectations, due to its generic nature.
Corrective/Remedial Action to Correct the Deficiency:	Document the technical justification for acceptance method of material and sampling methods in CGI evaluation MA24945 (Diffuser) and MA24946 (Retaining Ring), in accordance with identified critical characteristics, including the requirements for Lot homogeneity for each sampling plan. Correct CGI Dedication Plan D8740S for Lot 40316.
Corrective/Preventative Action to Preclude a Reoccurrence	Revise EOP 3140, to state the requirements for satisfactory documentation of technical justification for acceptance and sampling methods. Revise CGI Dedication Plan D8740S. Provide training on revised EOP.
Proposed Completion Date:	12/31/2012
Responding Person's Signature/Ti	tle Sepa Date: 11.20.12
Date CAR Response Received in I	Enertech QA Department: 11-20-12
QA Evaluation & Approval of Response	Date: 11-20-12

Form 16-1 Rev 0



Page 2 of 2

Enertech's Verification of Corrective Action Taken:
Method of Verification ☐ Re-Audit ☐ Administrative Review of Objective Evidence
Summary of Verification:
Summary of Verification: Verified revision to EOP and Subsequent training records.
Verification Date: 12-21-12 By: July Title: VP-6PEX
Enertech Management Review for 10CFR Part 21 Applicability: - Applicable; - Not Applicable
Review performed By: Jul L. Sy
Results of Verification: [Satisfactory [] Incomplete [] Unsatisfactory* [] Remains Open [Closed (* Additional Action Required)
Closed Date: 12-21-12 By: Just by Title: 1/P-0KEX



2950 Birch Street, Brea, CA 92821 U.S.A. Phone: 714.528.2301 Fax: 714.528.0128

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CUSTOMER	REV.	DRAWING NUMBER	
STANDARD	A	MA24945	Page 2 of 15

CGI EVALUATION - DIFFUSER, PASSIVE N. O. NOZZLE CHECK VALVE

RECORD OF REVISION

REV LEVEL	ECO NO.	PREPARED BY	DATE	CHECKED BY		APPROVED BY	DATE
A	5-21537	gal-	11/16/2012	-	11/16/12	SILOSY	11/16/12
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CUSTOMER	REV.	DRAWING NUMBER	•
STANDARD	В	MA24946	Page 2 of 11

CGI EVALUATION - RETAINING RING, PASSIVE N. O. NOZZLE CHECK VALVE

RECORD OF REVISION

REV LEVEL	ECO NO.	PREPARED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
A	5-21546	IJ Silverman	11/21/2012	H Mkrtchyan	11/26/12	P Schaller	11/30/12
В	5-21663	IJ Silverman	12/20/2012		12/21/12		12/24/12
				0			



Description: Casting, Diffuser

CGI DEDICATION PROCEDURE

CGI **D8740S** Rev. **A**Page 1 of 3

							Produc	Production Order No.	.0	
Desi Safe	gn Function ty Function	Design Function: Maintain disc shaft and spring in proper position and orientation for correct operation. Safety Function: Same as design function.	ı in proper p	osition and	orientation for $lpha$	orrect operation.				
Func	Functional Mod Qualifications:	Functional Mode (NP-6629): Active Qualifications:	Pa Pa	Passive	X_ Not Applicable		Reference CGI Evaluation:		MA24945 – Diffuser, Passive N.O. Nozzle Check Valve	ēck
,	Environi Seismici Original	Environmentally qualified per X Environmental qualification do Seismically qualified per X Seismic qualification does not Original Qualifications are maintained by compliance to the original design/drawing requirements.	compliance	X X X b to the origi	Environmenta Seismic quali nal design/drawi	Environmental qualification does not apply. Seismic qualification does not apply. design/drawing requirements.	s not apply. oply.			
	bility of Co Not subj Used in a Purchase	Eligibility of Commercial Grade item: Not subject to design specification requirements that are unique to nuclear facilities. Not subject to design specification requirements that are unique to nuclear facilities. Not subject to design specifications set forth in the manufacturer's published product description.	ements thai acilities. set forth in t	t are unique the manufac	to nuclear facilit turer's published	ies. product descriptic	ri.			
Basis Materi Dimer Functi Markir	for Selecti ial: Provides usions & Con ions: Provide ugs: Provide	Basis for Selection of Critical Characteristics for Acceptance: Material: Provides assurance that the item material has not changed such that the design basis or the original qualification may become invalid. Dimensions & Configuration: Provides assurance that the item has not changed as to jeopardize its ability to interface with its parent component. Functions: Provides a reasonable assurance that the item will operate within its design parameters. Markings: Provide an indication if the item is not the one purchased for the intended application.	for Accep Il has not ct hat the Item he Item will he one purch	tance: nanged such nas not chi operate with	is such that the design basis or to the changed as to jeopardize its te within its design parameters. for the intended application.	basis or the original ardize its ability to ameters.	al qualification may b Interface with its par	ecome invalid. ent component.		
The s	elected Ac	The selected Acceptance Method, Sampling Plan and/or Not	Plan and/c	or Notes at	es apply only when invoked.	invoked.				
Accep	Acceptance Method: 1. Speci 2. Comr 3. Source	t hod: Special Test and Inspections Commercial Grade Survey Source Inspection	Sampling Pla A. 100% B1. E0P 3 B2. E0P 3	ig Plan: 100% (All items) EOP 3140, Tights EOP 3140, Norm:	g Plan: 100% (All items) EOP 3140, Tighten (Table -1) EOP 3140, Normal (Table -1)	EB3.	EOP 3140, Reduced (Table -1) One sample per lot (destructive test or disassembly (Note 1) or CGI Survey)	zed (Table -1) ot (destructive is 1) or CGI Sur	test or vey)	
Notes: 1.		Disassembly to access internal parts is not recommended.	t recommer	_	mogeneity (EOP	3140) and testing	of accessible items provide reaso	al (Table -2) rovide reasonab	Lot homogeneity (EOP 3140) and testing of accessible items provide reasonable assurance that internal items	
9 in		Assembly and Functional Test provide reasonable assurance Acceptance of commercial CMTR requires PMT, traceability	isonable ass PMI, traces	surance that sbility marki	subcomponents ng on item and C	are manufactured MTR compliance w	e that subcomponents are manufactured correctly and interface di marking on item and CMTR compliance with material specification.	æ dimenslons (i tion.	Assembly and Functional Test provide reasonable assurance that subcomponents are manufactured correctly and interface dimensions (i.e. connection ports) are correct. Acceptance of commercial CMTR requires PMI, traceability marking on item and CMTR compliance with material specification.	*
4. rv.	-	Verification of other categories (i.e. material, dimensions, configuration and workmanship) provides reasonable assurance that the Item will perform its function. Verification of this critical characteristic is requested by Customer; it is not mandated by the referenced CGI Evaluation.	rial, dimens requested l	ions, configi by Custome	uration and work r; it is not manda	manship) provides ited by the referen	reasonable assuranc ced CGI Evaluation.	e that the Item v	will perform its function.	
	Rev.	ECO No.	8	Drawn By/Date	'Date	Checked By Date	Date	Approved By/Date	a	
L	A	5-21632		2	12/21/12	tes the	Cataella	CHEST 12	(1)	

For previous revision records see Document Control archive.



CGI DEDICATION PROCEDURE

CGI **D8740S** Rev. 0 Page 1 of 3 19185. (LOT#40316)

Production Order No. Design Function: Maintain disc shaft and spring in proper position and orlentation for correct operation. Safety Function: Same as design function. Description: Casting, Diffuser

Functional Mode (NP-6629): Active Passive X	X Not Applicable	Reference CGI Evaluation:	Reference CGI Evaluation: MA22004 - Non-Pressure Bataining Value Bud
Qualifications:			מואב לפוני
Environmentally qualified per X	Environmental qualification does not apply	tion does not apply	
Seismically qualified per	Seismic qualification does not apply	es not apply	The state of the s
Original Qualifications are maintained by compliance to the original design/drawing requirements.	design/drawing require	ments.	
in the second of	•		の名がある。
sugionity of commercial Grade Rem:			
 Not subject to design specification requirements that are unique to nuclear facilities. 	nuclear facilities,		See Mills
Used in applications other than nuclear facilities.			10/10/101
X Purchased on the basis of specifications set forth in the manufacturer's published product description.	er's published product	description.	MW 187011
			THE DAY

Dimensions & Configuration: Provides assurance that the item has not changed as to jeopardize its ability to interface with its parent component Material: Provides assurance that the item material has not changed such that the design basis or the original qualification may become invalid Functions: Provides a reasonable assurance that the item will operate within its design parameters. Markings: Provide an indication if the item is not the one purchased for the intended application,

Basis for Selection of Critical Characteristics for Acceptance:

The selected Acceptance Method, Sampling Plan and/or Notes apply only when invoked

						A
Acceptance Method:	ethod:	Samp	Sampling Plan:			
디지	Special Test and Inspections Commercial Grade Survey	A. A.	100% (All items) EOP 3140, Tighten (Table -1)	. B.	EOP 3140, Reduced (Table -1) One samile ner lyf (destrurtive test or	
ฑ่	Source Inspection	B 2.	EOP 3140, Normal (Table -1)	; <i>i</i>	disassembly (Note 1) or CGI Survey)	
Notes:				a'.	EOP 314U, Normal (Table -2)	
1 Diament	and the state of t	A comment of	1. Dispersion interest marks to make the mark and an analysis of the marks of the same and the s	•		

- Disassembly to access internal parts is not recommended. Lot homogeneity (EOP 31.40) and testing of accessible items provide reasonable assurance that internal items materials are correct
- Assembly and Functional Test provide reasonable assurance that subcomponents are manufactured correctly and interface dimensions (i.e. connection ports) are correct. Acceptance of commercial CMTR requires PMI, traceability marking on item and CMTR compliance with material specification. 4.
 - Verification of other categories (i.e. material, dimensions, configuration and workmanship) provides reasonable assurance that the Item will perform its function. Verification of this critical characteristic is requested by Customer; it is not mandated by the referenced CGI Evaluation.

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THE DATA PROVIDED HERBIN IS PROPEIARY DATA AND IS THE PROPERTY OF ENERGIECH, A BUSINESS UNIT OF CURTIESS WANGINFOL, COMPANY, THIS DATA SPALL NOT BE DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OF CORRESPONDING WITH ENERTIECH, ANY OTHER USE IS STRUCKLY PROMISITED WITHOUT THE PROPERTY OF DIPLICATE, USE OR DISCLOSE THIS OFFICE PURPOSE OF CORRESPONDING WITH ENERTIECH, ANY OTHER USE IS STRUCKLY PROMISITED WITHOUT THE PROPERTY.



ENERTECH Operating Procedure

REV AK **EOP** 3140

PAGE 1 OF <u>15</u>

Title	PROCEDURE FOR THE DEDICATION OF COM	<u>imer</u>	CIAL GRADE ITEMS/SERVICES
Prepared By	L. Beard	_Date	5-21-93
Approved By	A. Shelcoviz David J. Powell	_Date	5/24/93
QA Approval	J.I. Rosen	Date	24 May 93

	RECORD OF REVISIONS						
REV	DESCRIPTION	BY	DATE	APP'D	DATE	QA	DATE
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AK	Revise para 4.2, 4.3 and 4.5; 8.3, 8.4.8, 8.4.10, 8.4.12 and 8.11	EA.	12/2/12	11	12.21. 52	TV	912 24
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Brea, California 92821 QUALITY ASSURANCE PROGRAM TRAINING RECORD Written by: Theresa Ruiz Date: 12/21/12 instructor: Ararat Torosyan Title: Director of Operations Date/Place/Duration: Brea Office, Hours Name (print or type) Department/Title Signature Theresa Ruiz Operations / Engineering Specialist Richard Afsharian Engineering / Project Manager Felipe Alvarez Engineering / Project Manager Tsolag Apelian Project Sales - Valves / Engineer Jonathan Arndt Engineering / Project Engineer Alex Capatina Engineering / Design Engineer Viktor Genjoyan Engineering / Design Engineer Frank Goei Engineering / Design Engineer Brandon Hernandez Engineering / Design Engineer Ryan Hill Engineering / Design Engineer Serj Jarkhedian Engineering / Design Engineer Keith Johnson Engineering / Project Engineer Sirak Kalayci Engineering / Engineering Intern Kelvin Kao Engineering / Project Engineer, Parts Guy Levy Engineering / Project Manager Pascal Lim Engineering / Project Engineer Kevin Martin Engineering / Project Manager Robert McCandliss Engineering / Engineering Intern Kennie McCanless Engineering / Project Manager Haykaz Mkrtchyan Engineering / Principal Analysis Engineer Andrew Norris Engineering / Manufacturing Engineer Simon Rantisi Engineering / Project Engineer Joseph Rosca Engineering / Project Manager Marius Rosca Engineering / Design Engineer Carlos Sahagun Engineering / Project Engineer Avi Shelcoviz Director, Technology, Manufactured Products Ira Silverman Project Sales - Valves /Senior Principal Engineer Ben Snodgrass Berdomin Sungir M Engineering / Engineering Intern Sonali Vasa Donni Min Engineering / Engineer Gnouni Yengoian Project Sales - Pumps / Analysis Engineer Lesson Content: (Include document revisions and/or dates, as applicable) Review of CAR 2035 Review of CAR 2032, which includes the following:

PATRICK SCHALLER

CGI D8740S, Rev A - Casting, Diffuser

EOP 3140, Rev AK - Dedication of Commercial Grade Items

MA24945, Rev A - CGI Evaluation - Diffuser, Passive N.O. Nozzle Check Valve MA24946, Rev B - CGI Evaluation - Retaining Ring, Passive N.O. Nozzle Check Valve

Roll

OPERATIONS / PROJECT MANAGER



Page 1 of 2

ASME □ NON-ASME □ CAR# 2033 Date Issued: Nov. 5, 2012 Internal / External: Internal Originated By: John DeKleine Title: Director Quality Assurance Responsible Department: Design Engineering/Equipment Qualification NRC Routine Vendor Inspection reference Docket number 99901377, Report number Program/Regulatory Reference: 2012-201 Nonconformance -03. Procedure MA22989 rev B dated 4/30/12 states, in part, that "the purpose of this procedure .. is to successfully qualify the valve per ASME QME-1-2007 section QV-7500". Section QV-2000 states that "the purpose of section QV is ...to demonstrate performance under all specified operating and design basis conditions. Contrary to the above, during the NRC Inspection Enertech failed to establish a test Description of Deficiency: program to ensure that it had identified all tests necessary to demonstrate that the valve will perform satisfactorily in service. Specifically Enertech's test program did not identify and perform qualification testing to demonstrate operability under all QME-1(2007Edition) specified operating and design basis conditions. Recommendations: 1.

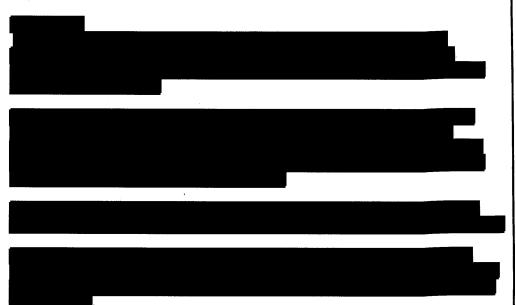
This section is to be completed by the referenced Department Manager/Supplier Representative only. You are hereby requested to investigate the above described condition and identify the cause, the fix, and the corrective action taken to preclude recurrence. Please complete this section of the form, or an attachment addressing the concern, and return by the specified Response Due Date.

Cause & Extent of Noted Deficiency:

Enertech's test program and procedure MA22989 initially have not included high pressure impact test because we assumed (with concurrence from customer (WEC) system designer) that the other tests (flow test at low pressure and high pressure with no flow) in the procedure already enveloped all operating and design basis conditions per QME-1.

Response Due: 11/30/12

While this gap was identified during NRC meeting on 4/4/12 prior to testing, it was premature for Enertech to add the additional test to the procedure because the detailed where under review by the customer. The extent of this unique deficiency is limited to this valve only.





Page 2 of 2

2033

				[2033]
Corrective/Remedial Action to Correct the Deficiency:	Following receipt of pressure impact test of	WEC new PO on 10/4 fthe valve.	/12, revise procedure MA	A22989 to include high
Corrective/Preventative Action to Preclude a Reoccurrence	Provide training: 1. To qualificati customer requ	ion and project engine uirements.	ers to ensure written proc	edure reflects current
Proposed Completion Date:	12/31/12			
Responding Person's Signature/Titl	e WW	Drabot	Colubar Date:	11/29/19
Date CAR Response Received in E	nertech QA Departmer	nt: 11-29 -	12	
QA Evaluation & Approval of Response	John	Dolla	Date:	11/29/12
Enertech's Verification of Correct	tive Action Taken:			
Method of Verification	□ Re-Audit	⊠ Administrativ	e Review of Objective	Evidence
Summary of Verification:				
Verified records	completed	training p	per attached to	raining
Verification Date: 12/27/12	By: See	K. Hay	Title:	EX
Enertech Management Review for 10	CFR Part 21 Applicab	ility: □- Applic	cable; ————————————————————————————————————	Applicable
Review performed By:	- hy			
Results of Verification:	V			
{{L] Sa	tisfactory [] Inc	complete []	Unsatisfactory*	
[] Re	emains Open [-/]-Clo	osed (* Additional A	ction Required)	
Closed Date: 12-21-12	By: M	1. Spy	Title: \(\mathcal{P} - 0 \)	°EX
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CUSTOMER WESTINGHOUSE REV. DRAWING NUMBER MA 22874

Page 1 of 8

EQUIPMENT QUALIFICATION PLAN FOR ENERTECH 8 INCH ANSI CLASS 1707 TYPE ERV-Z N.O. NOZZLE CHECK VALVE

FOR ENERTECH 8 INCH ANSI CLASS 1707 TYPE ERV-Z N.O. NOZZLE CHECK VALVE PREPARED FOR

WESTINGHOUSE ELECTRIC COMPANY, LLC
PURCHASE ORDER 4500322510
ENERTECH PROJECT 960029

Haykaz Mkrtchyan	1/15/10
Prepared by:	Date
Avi Shelcoviz	1/15/10
Checked by:	Date
Patrick Schaller	1/15/10
Approved by:	Date



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CUSTOMER
WESTINGHOUSE

REV. DRAWING NUMBER MA 22874

Page 2 of 8

EQUIPMENT QUALIFICATION PLAN FOR ENERTECH 8 INCH ANSI CLASS 1707 TYPE ERV-Z N.O. NOZZLE CHECK VALVE

RECORD OF REVISION

REV LEVEL	ECO NO.	PREPARED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
Α	5-21131	H. Mkrtchyan	8/9/12	P. Schaller	8/9/12	P. Schaller	8/9/12
В	5-21200	H. Mkytchyan	8/30/12	I. Silverman	8/30/12	A. Torosyan	8/30/12
C	5-21836	HartazIII	00/11/1		12/11/12		12/11/12
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WESTINGHOUSE

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DRAWING NUMBER
MAA22989

Page 1 of 8

ADDENDUM TO EQUIPMENT QUALIFICATION PROCEDURE FOR ENERTECH 8"- CLASS 1707 ERV-Z NOZZLE CHECK VALVE

ADDENDUM TO THE EQUIPMENT QUALIFICATION PROCEDURE FOR

ENERTECH 8"- CLASS 1707
TYPE ERV-Z
NOZZLE CHECK VALVE
PREPARED FOR

WESTINGHOUSE ELECTRIC COMPANY, LLC
PURCHASE ORDER 4500450302
ENERTECH PROJECT 960029

Prepared by:

Date

Chaolad by

26 October 2012

Date

Approved by:

2. Och br 2012 Date

ORIGINAL



Brea, California	92821	QUALITY	ASSURANCE PR	ROGRAM
		TRAININ	IG RECORD	
Written by:	John DeKleine		Date:	11/29/12
Instructor:	Avi Shelcoviz	He	Title:	Director of Technology
Date/Place/Dura	tion: 12/26/12	, Brea Office, 1 Hou	ırs	
Nar 1	ne (print or type)	Signer Signer	ature	Department/Title
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Lesson Content:	(Include document revisions a	nd/or dates, as anniicable)		
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CAR 2033				
NRC NON 999	01377 2012-201-03			
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QUALITY ASSURANCE PROGRAM Brea, California 92821 TRAINING RECORD Written by: John DeKleine Date: 11/29/12 Instructor: Ed Buzby/John DeKleine Title: Contracts Manager/Director QA 12/27/12 Date/Place/Duration: , Brea Office, 1/2 Hours Name (print or type) Department/Title Signature GELBMANA <u>Lesson Content:</u> (Include document revisions and/or dates, as applicable) Enertech CAR 2033 NRC NON# 99901377-2012-201---03 Scheduling of Customer witness testing



Page 1 of 2

	ASME □ NON-ASME □
CAR # 2034	Date Issued: <u>11/5/12</u>
Originated By: John DeKleine	Internal / External : Internal Title: Director Quality Assurance
Responsible Department:	Design Engineering / Technology
Program/Regulatory Reference:	Criterion III, "Design Control," of Appendix B, "Quality Assurance Program Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the Code of Federal Regulations (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," states, in part, that "measures shall also be established for the selection and review for suitability of application of materials, parts, equipment, and processes that are essential to the safety-related functions of the structures, systems, and components."
Description of Deficiency:	Enertech failed to review for suitability of application materials that were essential to the safety-related functions of structures, systems, and components. Specifically, Enertech did not perform the following: The commercial grade survey performed by Enertech at USU did not verify the calibration quality of the instruments used during the American Society of Mechanical Engineers (ASME) QME-1 functional flow tests to identify and record safety-related test data. These instruments which were commercially calibrated and accepted by USU and Enertech without verification of the calibration suppliers.
Recommendations:	and provided by the same suppliers.
1.	Response Due: 11/30/12
hereby requested to investigate	by the referenced Department Manager/Supplier Representative only. You are the above described condition and identify the cause, the fix, and the corrective ence. Please complete this section of the form, or an attachment addressing the cified Response Due Date. Our Technical Evaluation to support the Dedication of Testing Services does not adequately document establishing reasonable assurance the calibration quality characteristic.
Corrective/Remedial Action to Correct the Deficiency:	Revise the Technical Evaluation for Testing Services to document how reasonable assurance is established. Further regarding the subject current testing, Enertech confirmed satisfactory accuracy of the M&TE used during USU testing by Enertech post-test accuracy verification.
Corrective/Preventative Action to Preclude a Reoccurrence	Revised EOP 8185 to require the Enertech Survey Team when evaluating a commercial grade supplier using calibration controls as an EPRI Method 2 acceptance credit to determine the supplier has appropriate controls when subcontracting calibration, or in-house calibration procedures are implemented that is surveyed and accepted by Enertech Survey Team.
Proposed Completion Date:	12/31/12
Responding Person's Signature/Title	Date: 11/30/12
Date CAR Response Received in E	nertech QA Department: 11-30-12
QA Evaluation & Approval of Response	Date: 11-30-12

Form 16-1 Rev 0



Page 2 of 2

Emantonk's Varification of Country's Aut. T. 1	2034
Enertech's Verification of Corrective Action Taken:	
Method of Verification ☐ Re-Audit ☐ Administrative Review of Objective Evidence	
Summary of Verification:	
Reviewed revision to EDP 8185, calibration verification trader records + training records.	
Verification Date: 17-27-12 By: Ital Ly Title: 17-0PEX	
Enertech Management Review for 10CFR Part 21 Applicability: - Applicable; - Not Applicable	
Review performed By: Mh. Gyy	
Results of Verification: [] Satisfactory [] Incomplete [] Unsatisfactory* [] Remains Open [] Closed (* Additional Action Required)	
Closed Date: 12-27-12 By: 3nd h. my Title: 17-67 Ex	

CURTISS INRIGHT OF Iow Control Company
Enertech

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CUSTOMER	REV.
STANDARD	Δ

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Page 2 of 10

CGS EVALUATION - PERFORMANCE TESTING SERVICES

RECORD OF REVISION

REV. LEVEL	ECO NO.	PREPARED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
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The purpose of this document in its current form is to provide Enertech personnel with a reference guideline for writing CGS Dedication Procedures for testing services. This document is intended to enable Enertech to efficiently utilize its capability in conducting the CGS dedication procedure.



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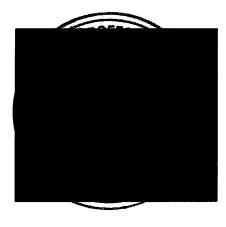
Page 1 of 1

TO: Enertec	h Engineering	FROM:	
SUBJECT:	Calibration Verification	DATE:	12/27/12

In an effort to ensure that test results obtained from Utah Water Research Lab (UTWRL) are acceptable for Enertech's normally open nozzle check valve performance verification under the simulated flow conditions, Enertech has performed verification of calibration on the following test instruments:

- 1. Fluke Digital Multimeter (FMD) Model 87, ID: 2105 XMTR
- 2. Fluke Digital Multimeter (FMD) Model 87, ID: 3039 XMTR
- 3. Rosemount Pressure Transmitter Model 3051S1CD3AE12A1AB4M5Q4, S/N: 0312105
- 4. Rosemount Pressure Transmitter Model 3051S1CD3AE12A1AB4M5Q4, S/N: 0353039

Enertech engineering has reviewed the Inspection and Verification reports of these instruments, more specifically, the maximum full scale errors in the measurements, and found them to be acceptable based on the measured values and customer specified flow performance requirements.







DATE: 10/16/2012
RECEIVE / INSPECTION:
The FDM looked to be in good condition and no shipping damage was noted.
SCOPE OF WORK:
The FDM was received to verify the displayed signal values/readings of the FDM under Enertech's Quality Assurance program.
VERIFICATION:
CONCLUSION:
The result of the verification showed that the FDM passed successfully by being within the specified/published manufacturer tolerances of the full-scale reading.
10/16/2012
Marius Rosca Date Calibration Technician





DATE: 10/16/2012	
RECEIVE / INSPECTION:	
The FDM locand no shipping damage was noted.	oked to be in good condition
SCOPE OF WORK:	
The FDM was received to verify the displayed signal values/readings of the FDM un Assurance program.	der Enertech's Quality
VERIFICATION:	·
CONCLUSION:	
The result of the verification showed that the FDM passed successfully by being with manufacturer tolerances of the full-scale reading.	nin the specified/published
J. C.	10/16/2012
Marius Rosca Calibration Technician	Date





DATE: 10/16/2012
RECEIVE / INSPECTION:
The RPT looked to be in good condition and no shipping damage was noted.
SCOPE OF WORK:
The RPT was received to verify the pressure values/readings of the RPT under Enertech's Quality Assurance program.
VERIFICATION:
CONCLUSION:
The result of the verification showed that the RPT was showing a maximum instrument full-scale error of 0.00%. For further detail in regard to the test result, reference the test results data sheet.
Enertech's QA Manual requires that any instrument used as a standard for testing should be four (4) times more accurate than the instrument under test (four to one accuracy ratio). With the instrument standard used for this test, Enertech is able to certify the RPT to a 0.25% full-scale error.
10/16/2012

Marius Rosca
Calibration Technician

Date





DATE: 10/16/2012	
RECEIVE / INSPECTION:	
be in good condition and no shipping damage was noted.	The RPT looked to
SCOPE OF WORK:	
The RPT was received to verify the pressure values/readings of the RPT under Enertech program.	's Quality Assurance (QA)
VERIFICATION:	
CONCLUSION:	
The result of the verification showed that the RPT was showing a maximum instrument For further detail in regard to the test result, reference the test results data sheet.	full-scale error of 0.92%.
Enertech's QA Manual requires that any instrument used as a standard for testing should accurate than the instrument under test (four to one accuracy ratio). With the instrument Enertech is able to certify the RPT to a 1.00% full-scale error.	
Ale	10/16/2012
Marius Rosca Calibration Technician	Date



QUALITY ASSURANCE PROGRAM Brea, California 92821 TRAINING RECORD 12-19-12 John DeKleine Written by: Date: John DeKleine Instructor: Title: Director, Quality Assurance , Brea Office, 1/2 Hours Date/Place/Duration: 12-19-12 Name (print or type) Signature Department/Title TAKER <u>Lesson Content:</u> (Include document revisions and/or dates, as applicable) Corrective Action Request 2034, including EOP 8185, updated CGD Survey Checklist

NRC Inspection Report 99901377 2012-201 NON -02



ENERTECH Operating Procedure

EOP 8185 **REV** I PAGE 1 OF <u>7</u>

Title PRO	CEDURE FOR COMMERCIAL GRADE SURVEY	
Prepared By	John DeKleine	Date <u>May 26, 2005</u>
Approved By	Herbert Ellsworth	Date <u>May 27, 2005</u>
QA Approval	John DeKleine	Date May 27, 2005

RECORD OF REVISIONS								
REV	DESCRIPTION	BY	DATE	APP'D	DATE	QA	DATE	
Ø								
Α								
В	Please refer to original cover sheet in archives for signatures and record of revisions.							
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D								
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1	Added new par: 7.3.1.7.5. Revised par.: 7.4.3	NO	1113/12	M	[[5 12	W	1/19/10	