

ORGANIZATION: D. G. O'BRIEN, INC.  
SEABROOK, NEW HAMPSHIRE

REPORT NO: 99900326/82-01	INSPECTION DATE(S) 6/14-17/82	INSPECTION ON-SITE HOURS: 25
CORRESPONDENCE ADDRESS: D. G. O'Brien, Inc. ATTN: Mr. Donald G. O'Brien President One Chase Park Seabrook, NH 03874		
ORGANIZATION CONTACT: Mr. E. Colen, QA Manager TELEPHONE NUMBER: (603) 474-5571		
PRINCIPAL PRODUCT: Electrical Penetrations		
NUCLEAR INDUSTRY ACTIVITY: The nuclear output of this company is 12% based on sales.		
ASSIGNED INSPECTOR:	<u>R. E. Otter</u> R. E. Otter, Reactive & Components Program Section, (R&CPS)	<u>7-20-82</u> Date
OTHER INSPECTOR(S):		
APPROVED BY:	<u>I. Barnes</u> I. Barnes, Chief, R&CPS	<u>7-23-82</u> Date
INSPECTION BASES AND SCOPE:		
A. <u>BASES</u> : 10 CFR Part 50, Appendix B.		
B. <u>SCOPE</u> : Change control; equipment calibration; procurement document control; and procurement source selection.		
PLANT SITE APPLICABILITY:		
McGuire Station, Units 1 and 2; Dockets 50-369 and 50-370.		

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PDR GA999 EMVDG0B  
99900326 PDR

DESIGNATED ORIGINAL  
Certified By Shanne Jutz

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INSPECTION  
RESULTS:

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A. VIOLATIONS:

None

B. NONCONFORMANCES:

None

C. UNRESOLVED ITEMS:

None

D. OTHER FINDINGS OR COMMENTS:

1. Change Control - The inspector reviewed two sections of the vendor's QA manual which were applicable to changes in design and manufacturing documents.

To verify that changes in design and manufacturing documents for electrical penetrations were controlled and documented, a review was made of: five D. G. O'Brien procedures; change control documents in a record package consisting of engineering orders, engineering change orders, procedure approval and revision sheets, revision cover sheets for procedures, and revision status of sheets; an engineering change request log; ten engineering change requests; an Engineering Change Order (ECO) for an inprocess airlock penetration; an ECO for a PT procedure change on a traveler, and ten Engineering Orders contained in a log book for various nuclear orders.

Within this area, no nonconformances or unresolved items, with regard to the NRC and the QA program requirements, were identified.

2. Equipment Calibration - The inspector reviewed Section 10.0 "Control of Measuring and Test Equipment" of the (DGO) QA manual, and observed the calibration status of numerous measuring and test gages.

To verify that the above observed inspection, test and other measuring devices used in activities affecting quality are controlled and calibrated on a scheduled basis, and the results documented in accordance with written procedures, a review was made of: a general calibration procedure; calibration history cards and/or certificates of calibration for 20 mechanical inspection gages and 21 electrical and mechanical test instruments and gages, and a calibration record log for employee-owned gages.

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RESULTS:

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Within this area, no nonconformances or unresolved items, with regard to the NRC and the QA program, were identified.

3. Procurement Document Control - The inspector reviewed Section 2.0 of the DGO QA manual which was applicable to procurement documents.

To verify that procurement documents are controlled in accordance with written procedures, suitably include or reference necessary requirements for procurement of materials, equipment, and services, and require sub-contractors to provide an appropriate QA program, a review was made of: two DGO procedures, and records of seven QA and engineering-approved nuclear purchase requisitions and the related purchase orders.

Within this area, no nonconformances or unresolved items, with regard to the NRC and the QA program requirements, were identified.

4. Procurement Source Selection - The inspector reviewed Section 2.0 of the DGO QA manual which was applicable to procurement source selection.

To verify that procurement source selections are controlled and documented, and that evaluation of subcontractors includes such measures as: onsite survey; acceptance based on the subcontractors being a holder of a valid and applicable ASME authorization; or acceptance based on a history of satisfactory performance, a review was made of: a DGO procedure controlling QA audits and vendor qualifications; a nuclear code qualified vendor list and a non-nuclear qualified vendor list; two vendor audit files; and a record of vendor analysis for 1981.

Within this area, no nonconformances or unresolved items, with regard to the NRC and the QA program requirements, were identified.

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1	2	TITLE/SUBJECT	3	4
1	4	D.G.O. AFME QA Manual section 1.0 "Order Entry and Design Control", and 3.0 "Document Control, Instructions, Procedures and Drawings"	9-22-77	1
2	3	Following D.G.O. procedures relative to change control: (1) No. EPP-3, "Engineering Change Request and Engineering Change Order" (2) No. EPP-22, "Document Control" (3) No. EPP-8, "Engineering Order" (4) No. EPP-10, "Manufacturing Procedures Additions And Changes" (5) No. EPP-25, "NPP Document Control And Identification"	- - - - -	L J E E -
3	8	Following change records for completed work for McGuire Units 1 & 2: (1) Engineering Order No. 385-425 (2) E.O. No. 385-40 (3) Engineering Change Order No. 2690-901 (4) E.C.O. No. 2690-819 (5) E.O. No. 385-408	2/27/81 4/15/81 5/27/81 11/7/80 4/15/81	NA " " " "

Cont. p 2.

## Document Types:

- |                  |                                 |
|------------------|---------------------------------|
| 1. Drawing       | 5. Purchase Order               |
| 2. Specification | 6. Internal Memo                |
| 3. Procedure     | 7. Letter                       |
| 4. QA Manual     | 8. Other (Specify-if necessary) |

## Column Nos.

- |                                |
|--------------------------------|
| 1. Sequential Item No.         |
| 2. Type of Document            |
| 3. Date of Document            |
| 4. Revision No., if applicable |

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1	2	TITLE/SUBJECT	3	4
(cont)	8	(6) "Procedure Approval and Revision Sheet" for Welding Procedure No. MP-WP-215	11/1/78	NA.
		(7) Revision Cover Sheet for QA Test Methods Sheet per ECO 2690.	-	C
		(8) Revision Cover Sheet for "Welding Control" procedure SS-QA-146 per ECO 2815-125	11/1/78	E
		(9) Procedure Approval and Revision Sheet for manufacturing procedure MP-MP-100	11/1/78	B
		(10) Revision Cover Sheet for procedure No. TP-MP-102, "Penetration Test"	5/1/79	R
		(11) Procedure Approval and Revision Sheet for procedure MP-WP-131, "Welding Sequence - Duke Flange per ECO 2690-68"	11/1/78	B
		(12) "Revision status of sheets" for document No. MP-MA-168 "Connector Hole Location Pattern"	-	F
		(13) Revision status of sheets for document MP-MH-20 + "Hydring Instruction"	-	NA
4	8	Engineering Change Request Log	-	NA
5	8	Following NPP stamped E.C.R.s:		
		(1) No. 1181	11/1/82	"
		(2) No. 1182	11/1/82	"

## Document Types:

1. Drawing
2. Specification
3. Procedure
4. QA Manual
5. Purchase Order
6. Internal Memo
7. Letter
8. Other (Specify-if necessary)

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1	2	TITLE/SUBJECT	3	4
5 (cont)	Cont	(3) No. 1155	7/24/82	N.A.
		(4) No. 1142	7/26/82	"
		(5) No. 1114	1/28/82	"
		(6) No. 1041	10/23/81	"
		(7) No. 1013	9/22/81	"
		(8) No. 1010	9/19/81	"
		(9) No. 977	4/16/81	"
		(10) No. 943	1/27/81	"
6	8	E.C.O. No. 2690-1025 accompanying an in-process air lock penetration and <sup>other</sup> ECOs No. 2690-1025 for pieces No 448-26 through 51	-	"
7	8	ECO No. 2690-956 for a PT. procedure Number change on a Manufacturing Process Sheet (traveler) for Job 62001	-	"
8	8	Following Engineering Orders for various NPP Jobs (in the E.O. Logbook) (1) EO No. 385-476	3/2/82	"

## Document Types:

1. Drawing
2. Specification
3. Procedure
4. QA Manual
5. Purchase Order
6. Internal Memo
7. Letter
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Scop/Module Change Control

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1	2	TITLE/SUBJECT	3	4
8 (cont.)	8 (cont.)	(2) E.O. No. 385-477	2/3/82	NA
		(3) E.O. No. 385-480	2/10/82	"
		(4) E.O. No. 385-481	2/10/82	"
		(5) E.O. No. 385-482	2/10/82	"
		(6) E.O. No. 385-485	2/24/82	"
		(7) E.O. No. 385-441	10/27/81	"
		(8) E.O. No. 385-443	10/28/81	"
		(9) E.O. No. 385-448	11/4/81	"
		(10) E.O. No. 385-453	11/6/81	"

- Document Types:
- 1. Drawing
  - 2. Specification
  - 3. Procedure
  - 4. QA Manual
  - 5. Purchase Order
  - 6. Internal Memo
  - 7. Letter
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Scop/Module Equipment Calibration

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1	2	TITLE/SUBJECT	3	4
1	4	D.G.O.'s QA Manual, section 10.10.10 "Control of Measuring and Test Equipment"	-	1
2	3	Following D.G.O. procedures:		
		(1) No. QA-CP-100 "General Calibration Procedure"	6/3/82	L
		(2) No. QA-CP-101 "Calibration Procedure For Independent Source Calibration"	6/5/82	D
3	8	D.G.O. Calibration history cards for 20 mechanical inspection gages	Various	N/A
4	8	D.G.O. Calibration history cards and/or subvendor certificates of calibration for 21 electrical and/or mechanical test instruments.	Various	"
5	8	D.G.O. Calibration record logbook for employer owned inspection gages.	Various	"

Document Types:

- 1. Drawing
- 2. Specification
- 3. Procedure
- 4. QA Manual
- 5. Purchase Order
- 6. Internal Memo
- 7. Letter
- 8. Other (Specify-if necessary)

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Document ControlDOCUMENTS EXAMINEDPage 6 of 7

1	2	TITLE/SUBJECT	3	4
1	4	D.G.O. QA manual Section 20, "Procurement Control"	-	1
2	3	Following D.G.O. procedures:		
		(1) No. SS-QA-133, "QA Review of Purchase Requisitions"	-	H
		(2) No. MPP-6, "Procurement Procedures"	-	E
3	8	Following records consisting of QA and engineering approved <sup>nuclear</sup> purchase requisitions and the related purchase orders for materials <sup>and</sup> or services:		
		(1) No. 63036-09	5/17/82	NA
		(2) No. 63036-05	4/27/82	"
		(3) No. 63036-02	2/9/82	"
		(4) No. 63036-22	5/6/82	"
		(5) No. 63036-04	4/24/82	"
		(6) No. 63036-01	2/6/82	"
		(7) No. 63036-06	4/23/82	"

## Document Types:

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Report No. 82-01

Scop/Module Procurement  
Source selection

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1	2	TITLE/SUBJECT	3	4
1	4	D.G.O. QA manual section No. 2.0 "Procurement Control"	-	1
2	3	D.G.O. procedure No. SS-QA-129, "Quality Assurance Audits And Vendor Qualifications"	-	J
3	8	Following lists		
		(1) "Nuclear Code qualified Vendor List"	2/5/82	L
		(2) "Non-Code Nuclear qualified Vendor List"	5/5/82	S
4	8	D.G.O. Vendor Audit Files for two subvendors of machining services.	9/4/81	NA
5	8	Record of "Vendor Analysis For 1981" (based on review of Deficiency Reports).	-	NA

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  - 4. QA Manual
  - 5. Purchase Order
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