Title:

FABRICATION PLAN FOR SPOOLS AND BEAM TUBES

FABRICATION PLAN

FOR

SPOOLS AND BEAM TUBES

LIGO VACUUM EQUIPMENT

Hanford, Washington and Livingston, Louisiana

	Livingston, Louisiana							
QU. MA TEO	EPAREI ALITY NUFAC CHNICA OJECT	ASSUI CTURI AL DII	NG EN	GINEER:	Phri Olan D. Co Rom	Historia Historia Luci	Jana John Say	
Information c used only as r	ontained i	n this sp	ecification	n and its atta	chments is propri equirements, and	etary in nature shall not be d	e and shall be kept confidential. It sh isclosed to any other party.	all be
8	PF S	72/96	Res	5/2/96	ISSUED PE	R DED 6	0161 FOR FDR	
REV LTR.	BY-D	ATE	APPD	. DATE	<u> </u>		RIPTION OF CHANGE	
ROCESS SYSTEMS INTERNATI					ONAL, INC. SPECIFICATION			
INITIAL PREPARED DATE APPROVALS PCF 5/2/96				DATE 5/2/96	APPROVED At 3	DATE 5/2/96	Number A V049-2-083	Rev.

TABLE OF CONTENTS

- 1.0 Purpose
- 2.0 General
- 3.0 Responsibility
- 4.0 Fabrication Plan

ATTACHMENTS:

- 1. Spool and Beam Tube Fabrication Documents
- 2. Fabrication Flow Chart
- 3. Fabrication Priority List

Number

Tev

SPECIFICATION

Number

V049-2-083

Rev.

age ____2_ of __&

FABRICATION PLAN FOR SPOOLS AND BEAM TUBES

4.5 Procurement

PSI will procure all S.S. plate and flange material.

. PSI will purchase vessel heads.

4.6 Quality Assurance

Each Spool and Tube Fabrication Process shall be monitored and control via the Quality Plan.

PSI will inspect all incoming materials to purchase documents.

4.7 Shop Conditioning/Testing

The Spools and Beam Tubes will be shop conditioned (cleaning, bakeout, etc.) per PSI Procedure V049-2-047.

4.8 Preparation For Shipment

· The Spools and Beam Tubes will be prepared and shipped per PSI Procedure V049-2-123.

Number

Č

SPECIFICATION

Title

ATTACHMENT 1

SPOOLS AND BEAM TUBES DOCUMENTS

1.	Spec. For Spool and Beam Tube Fabrication	V049-2-097
2.	Spool and Beam Tube Quality Plan	V049-2-099
3.	Flanges	V049-2-040 & V049-2-042
4.	Raw Material Handling Procedure	V049-2-120
5.	Weld Data Sheet Spec.	V049-2-084
6.	Weld Procedures	V049-2-070, 071, 072, 073
7.	Weld Repair Procedure	V049-2-074
8.	Cleaning Procedures	V049-2-015
9.	Painting Procedures	V049-2-077
10.	Component Shop Conditioning/Test Plan	V049-2-014
11.	Bakeout Procedure	V049-2-019
12.	Leak Test Procedure	V049-2-047
13.	Dimensional Verification Procedure	V049-2-121
14.	Component, Handling, and Shipping Procedure	V049-2-123
15.	PSI Drawings	

Adapter A-1, 44.62" ID x 72.25 ID	V049-4-A1
Adapter A-2, 48.25" ID x 72.25 ID	V049-4-A2
Adapter A-3, 48.25" ID x 60.5 ID	V049-4-A3
60" HAM Cover, Grooved	V049-4-A4
Adapter A-6, 48.25" ID x 60.5 ID	V049-4-A6
Adapter A-7, 60.5" ID x 72.25 ID	V049-4-A7
Adapter A-12, 48.25" ID x 60.5 ID	V049-4-A12
BSC End Cover 60"	V049-4-All
Adapter A-13, 60.5" ID With 72.25 ID.	V049-4-A13
Adapter A-14, 44.62" ID With 60.5 ID	V049-4-A14
Adapter A-15, 48.25" ID With 60.5 ID	V049-4-A15
Spool B-1, 72.25 ID	V049-4-B1
Spool B-2A, 30.5 ID x 60.5 ID	V049-4-B2A
Spool B-2B, 30.5 ID x 60.5 ID	V049-4-B2B
Spool B03A, 30.5 ID x 60.5 ID	V049-4-B3A
Spool B-4, 48.25" ID	V049-4-B4
Spool B-5A, 30.5 ID x 60.5 ID	V049-4-B5A
Spool B-6, 48.25" ID	V049-4-B6
Spool B-7, 48.25" ID	V049-4-B7
Spool B-8, 72.25" ID	V049-4-B8
Spool B-9, 72.25" ID	V049-4-B9
Spool BE-1, 72.25" ID	V049-4-BE1
Spool BE-2, 60.5" ID	V049-4-BE2
Off Set Spool BE-3, 60.5" ID x 60.5 ID	V049-4-BE3
Off Set Spool BE-3A, 60.5" ID x 60.5 ID	V049-4-BE3A
Spool, BE-4, 44.62" ID	V049-4-BE4

Spool, BE-5, 72.25" ID

Spool, BE-6, 72.25" ID x 72.25 ID

Numbe

i

SPECIFICATION

Number

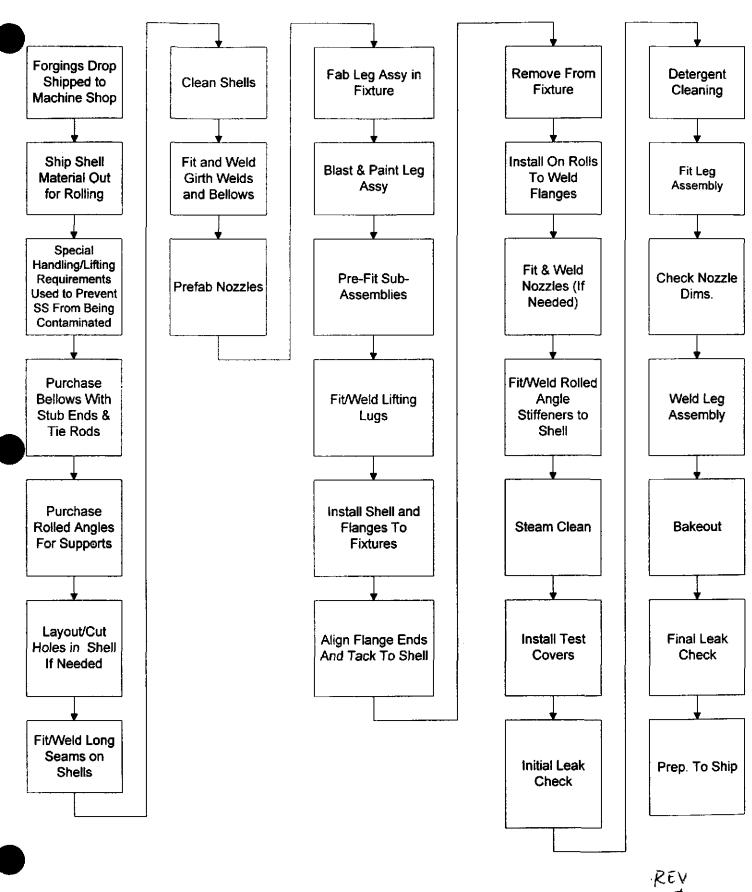
V049-4-BE5

V049-4-BE6

V049-2-083

Rev.

ATTACHMENT 2 SPOOLS AND BEAM TUBE FABRICATION PROCESS DIAGRAM



KEV P P6. 6 of 8

ATTACHMENT 3

SPOOL AND BEAM TUBE FABRICATION PRIORITY LIST

First Priority For Washington	Second Priority For Washington
2-A1	
2-A3	4-A1
1-A6	2-A7
1-A12	
2-A13	2-A14
2-A15	2-BE4
2-A15	
2-B1	
2-B2A	
1-B3A	
1-B4	
1-B5A	
1-B6	
1-B7	
2-B8	
2-BE2	
2-BE3	
2-BE3A	
2-BE4	
1-BE5	
1-BE6	
2-BE9	

Number

iev.

SPECIFICATION

Number

V049-2-083

ATTACHMENT 3

SPOOLS AND BEAM TUBE FABRICATION PRIORITY LIST

For Louisiana Site

4-A1

2-A2

2-A3

2-A4

2-A7

2-B1

1-B3A

1-B5A

2-B9

2-BE1

2-BE2

4-BE3

4-BE4

1-BE5

1-BE6

Number

Te

SPECIFICATION

Number

V049-2-083

Ø

Page 8 of 8