# ACCEPTANCE TEST PROCEDURE FOR BAKEOUT SYSTEM BLANKETS AND CARTS FOR LIGO VACUUM EQUIPMENT

Hanford, Washington

and

Livingston, Louisiana

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PROCESS SYSTEMS INTERNATIONAL, INC.				N OF CHANGE	TION	
PROCI	ESS SYSTEM	IS INTERNA	TIONAL, IN		SPECIFICA"	
INITIAL APPROVA		ED DATE	Man	S/2/56	Number: A V049-2-112 U60-E970168-00	Rev.

#### 1.0 PURPOSE

The purpose of this Acceptance Test Procedure (ATP) is to define the overall plan for acceptance testing of the bakeout system blankets and carts in order to demonstrate that they meet the requirements of the LIGO Vacuum Equipment Specification, LIGO-E940002-02-V, Revision 2, dated August 31, 1995.

#### 2.0 GENERAL

- 2.1 The procedure applies to all the stations. Slight differences among each station will be due to different vacuum equipment, size of the isolatable section sizes, surfaces, volumes, and quantities involved relating to instrumentation, equipment, etc.
- 2.2 Tests will be performed by PSI personnel, and will be witnessed by an agent designated by LIGO.

## 3.0 REFERENCE DOCUMENTS

The attached equipment acceptance test data/test verification form shall be filled out when performing the ATP and presented to LIGO.

### 4.0 RESPONSIBILITY

It shall be the responsibility of the project engineer assigned to this component or subsystem to ensure that all procedures required by this acceptance test procedure are performed, and that a person from LIGO designated as the witnessing agent, and who has signoff authority, shall sign the data sheet /test certification attached to this procedure, verifying that the procedures have been performed, and meet all requirements. The data sheet shall also be signed by the project engineer or by someone designated by the PSI project manager. Any test listed in the data sheet which is not applicable to this component or subsystem shall be noted by writing "N/A" in the appropriate space. Any deviations from the test procedures or parameters shall be noted on this data sheet.

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## **5.0 FIELD TEST**

- 5.1 Bakeout System Blankets And Carts:
- All bakeout carts will be tested per PSI fabrication specification V049-2-068 prior to shipment to the site.
  - b. All blankets will be tested for operation and performance at PSI during bakeout of all vacuum vessels.

Vacuum vessels will be cleaned, baked out, evacuated, and sealed prior to shipment to the site.

SPECIFICATION

Number:

**A** V049-2-112

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Equip. Tag	S/N	<u> </u>
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Type of Test	ATP Para.	ATP Req'ment/ Actual Data	Comments	LIGO Witness Sign./date	PSI Sign/date
Visual Inspection		PSI check at PSI PSI field check			
Labelling Verification		PSI check at PSI PSI field check			
Blanket Fit Test		PSI check at PSI PSI field check			
Electrical continuity test		PSI check at Vendor			
System interlocks test		PSI check at PSI PSI field check			
Functional Test		. PSI check at PSI PSI field check			
Vessel Bakeout					

SPECIFICATION				
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