

Title: SPECIFICATION FOR BLACK LIGHT INSPECTION PROCEDURE

SPECIFICATION FOR
BLACK LIGHT INSPECTION PROCEDURE
FOR
LIGO VACUUM EQUIPMENT

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0	TMS 5-5-96	RES 5/5/96	INITIAL RELEASE PER DEO # 0171 FOR FDA
REV LTR.	BY-DATE	APPD. DATE	DESCRIPTION OF CHANGE

PROCESS SYSTEMS INTERNATIONAL, INC.				SPECIFICATION			
INITIAL APPROVALS	PREPARED	DATE	APPROVED	DATE	Number	V049-2-130	Rev.
	TMS	5-5-96	RES	5/5/96	LIGO-E960189-00-V		0

Title

SPECIFICATION FOR BLACK LIGHT INSPECTION PROCEDURE

SPECIFICATION TABLE OF CONTENTS

- 1.0 Purpose
- 2.0 General
- 3.0 Responsibilities
- 4.0 Procedure
- 5.0 Required Documentation

1.0 PURPOSE

This specification covers the procedure to be used for black light inspections of vessels and components cleaned for the LIGO vacuum system.

2.0 GENERAL

- 2.1 Cleaning shall be performed by an engineer, technician or shop worker familiar with this procedure and the manual for use of the ultraviolet lamp.
- 2.2 Inspection shall be done in a darkened area.
- 2.3 A 100 watt ultraviolet lamp with a wavelength of 365 nm shall be used.

3.0 RESPONSIBILITIES

- 3.1 Cleaning shall be performed by an engineer, technician or shop worker familiar with this procedure and the manual for use of the ultraviolet lamp.
- 3.2 This procedure shall be maintained and modified as required by the cognizant engineer.

Number
Rev.

SPECIFICATION		
Number	A	V049-2-130
Rev.		0

Title

SPECIFICATION FOR BLACK LIGHT INSPECTION PROCEDURE

4.0 PROCEDURE

- 4.1 Turn on the lamp and allow it to warm up for 3-5 minutes.
- 4.2 The operator shall enter the darkened area and allow 2-3 minutes for his eyes to adapt to the low light level.
- 4.3 Inspect the cleaned surfaces, holding the lamp 8-12 inches from the surface. Be careful to distinguish between ultraviolet fluorescence and reflected purple visible light.
- 4.4 Record the description and location of any detected contamination and issue a Discrepancy Report.

5.0 REQUIRED DOCUMENTATION

Inspection results shall be recorded on the component cleaning data sheet.

Number

Rev.

SPECIFICATION

Number

A

V049-2-130

Rev.

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