Plum Brook Station Work Instruction

Energizing Mechanical Systems

APPROVED

Approved by Plum Brook Management Office/7030:

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Cleveland, OH 44135

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Change Record

Rev.	Effective Date	Description
Initial	2/2/99	Initial Release
Initial Release 1	7/12/99	CR 1999-50, multiple formatting & editorial changes
A	7/21/00	CR 2000-50, in section 6.8 change statement "…completes any required documentation such as completed checksheets and returns them to the Cognizant Engineer" to "…completes documentation required by the work order and forwards to the Cognizant Engineer"; in section 7.0 modify block 6.8 accordingly.
B	9/26/00	CR 2000-54, in Section 2.1, change the document number for the Glenn Research Center (GRC) safety Manual from "LeR-M0530.001" to LeR-P0530.001"
B1	10/2/2000	CR 2000-61, Reverse Steps 6.9 and 6.10 on page 4 and in flowchart.
C	5/13/03	CR 2003-24, Removed deleted procedure and modified document number in Sections 2.0 and 7.0, replaced “Work Leader” with “Group Leader/Supervisor” in Sections 6.2-6.8.

1.0 PURPOSE

The purpose of this work instruction is to provide a guideline for the orderly and safe energization of mechanical systems. It adheres to all recognized safety codes, regulations and standards based on the dictates of sound engineering judgement.

2.0 REFERENCES

Document Number	Document Title
LeR-M0530.001	Glenn Safety Manual
GRC-P7030.024	Lockout/Tagout
GRC-P7030.037	Test Operations
Internal (Latest Revision)	Applicable Check Sheets (Provided by Engineer)

3.0 SAFETY PRECAUTIONS

Use appropriate Personal Protective Equipment (PPE); adhere to all checksheet safety instructions.

4.0 TOOLS, EQUIPMENT AND MATERIALS

As required per operations engineer and checksheet procedures.

5.0 PERSONNEL TRAINING AND/OR CERTIFICATION

Must be performed by qualified operators meeting the minimum standards of the Glenn Safety Manual, Chapter 2 and others as applicable.

6.0 INSTRUCTIONS

6.1 The Cognizant Engineer provides a work order containing specific instructions for the energizing of the mechanical system.

6.2 The Cognizant Group Leader/Supervisor verifies that all previously required validation requirements have been met.

6.3 The Cognizant Group Leader/Supervisor verifies that all components in the mechanical system have been properly installed.

6.4 The Cognizant Engineer and Group Leader/Supervisor verify that any associated, interconnected, or otherwise connected systems will remain in a safe condition prior to energizing the mechanical system.

6.5 The Cognizant Group Leader/Supervisor verifies all safety requirements (such as barricading, announcements, personal protective equipment, etc.) have been met, prior to energizing the system.

6.6 The Cognizant Group Leader/Supervisor notifies the Cognizant Engineer that the mechanical system is ready to be energized.

6.7 The mechanical system is energized per instructions on the work order.

6.8 The Cognizant Group Leader/Supervisor completes documentation as required by the work order and forwards to the Cognizant Engineer.

6.9 Proceed with Test Operations GRC-P7030.037, if appropriate.

6.10 Proceed with Integrated Systems Tests, if appropriate.

7.0 FLOW DIAGRAMS