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Work Instruction No. GRC-W7030.036

Revision C

Plum Brook Station Work Instruction

Activation of Components

APPROVED

Approved by Plum Brook Management Office/7030:

**NASA - Glenn Research Center
Cleveland, OH 44135**

Glenn Research Center Work Instruction	Title: Activation of Components	
	Document No.: GRC-W7030.036	Rev.: C

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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	8/11/00	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"
B	10/25/01	CR 2001-59, replace "GRC-P7030.043 Control of Nonconformance" with "GRC-P4.4 Control of Nonconforming Product" in sections 2.0, 6.6, and 7.0.
C	5/13/03	CR 2003-24, Removed deleted procedures in Sections 2.0 and 7.0, modified document number and title in Section 2.0, replaced deleted procedures in Sections 6.2-6.3, and 6.7, replaced "Work Leader" with "Group Leader/Supervisor" in Sections 6.2-6.3 and 6.5.

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1.0 PURPOSE

The purpose of this work instruction is to provide a guideline for the orderly and safe activation of components in a given system. 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
GRC-P4.4	Control of Nonconforming Product
LeR-M0530.001	Glenn Safety Manual
GRC-P7030.020	Building, Activating, & Validating ElectroMechanical Systems
Internal	Applicable Engineering provided Activation Procedures
Internal	Vendors Information, Manuals, Etc.

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 activation 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 an activation procedure that will result in the safe, effective activation of the component.
- 6.2 The Cognizant Engineer and **Group Leader/Supervisor** verify that the component has been built in accordance with “Building, **Activating, & Validating** ElectroMechanical Systems” Procedure GRC-P7030.020. If the component fabrication is complete, proceed to step. 6.3. If the component fabrication is not complete proceed to 6.1.
- 6.3 The Cognizant Engineer and **Group Leader/Supervisor** verify that the component fabrication and/or installation has been validated in accordance with “**Building, Activating, & Validating** ElectroMechanical Systems” Procedure GRC-P7030.020. If adequate validation has been performed, proceed to step 6.4. If adequate validation has not been performed proceed to step 6.1.

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- 6.4 Proceed with the activation procedure specified in section 6.1 of these instructions.
- 6.5 The Cognizant Engineer and **Group Leader/Supervisor** determine whether the component performance conforms to the component design and performance criteria.
- 6.6 If the component does not conform to design and performance criteria, proceed with “Control of Nonconforming Product” Procedure GRC-P4.4.
- 6.7 If the component does conform to design and performance criteria, proceed with “**Building, Activating, & Validating** ElectroMechanical Systems” Procedure GRC-P7030.020.

7.0 FLOW DIAGRAM

