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Plum Brook Station
Work Instruction No.

GRC-W7030.032

Revision

D

Plum Brook Station Work Instruction

Energizing Electrical Systems

APPROVED

Approved by Plum Brook Management Office/7030:

NASA - Glenn Research Center
Cleveland, OH 44135

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Page 1 of 5

| | | |
|---|--------------------------------------|---------|
| Glenn Research Center Plum Brook Station Work Instruction | Title: Energizing Electrical Systems | |
| | Document No.: GRC-W7030.032 | Rev.: D |

Procedure Owner: Plum Brook Management Office

Point of Contact: William Klein (419-621-3207)/Mark Cmar (419-621-3273)

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, add "GRC-W7030.036 Activation of Components" to section 2.0; in section 6.1.2 add "GRC-W7030.036"; in section 6.9 change statement "Complete and return any required documentation to the work order originator" to "Complete documentation as required by the work order and forward to the work order originator"; in section 7.0 modify block 6.9 accordingly. |
| A1 | 8/7/00 | CR 2000-60, in section 7.0 correct spelling errors in blocks 6.3 and 6.4. |
| B | 8/11/00 | CR 2000-54, in section 2.0 change the document number for the Glenn Research Center (GRC) Safety Manual from "LeR-M0530.001" to LeR-P5030.001". |
| B1 | 10/27/00 | CR 2000-115 Update Approving Authority to match current list. |
| C | 1/14/02 | CR 2002-03, Update Point of Contact. |
| D | 5/13/03 | CR 2003-24, Removed deleted procedure and modified document number in Section 2.0, removed deleted procedure from Section 7.0. |
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1.0 PURPOSE

The purpose of this work instruction is to provide guidelines for the energization of electrical systems.

2.0 REFERENCES

| Document Number | Document Title |
|-----------------|------------------------------------|
| LeR-M0530.001 | Glenn Safety Manual |
| GRC-P7030.024 | Lockout/Tagout |
| GRC-W7030.036 | Activation of Components |
| Internal | Applicable manufactures manuals |
| Internal | Test Package Customer instructions |

3.0 SAFETY PRECAUTIONS

Verify with operations personnel, lead test conductor and test package customer that this work will not cause any safety hazards. Follow any applicable safety precautions outlined in the manufactures manuals or customer instructions.

4.0 TOOLS, EQUIPMENT AND MATERIALS

Required tools as outlined in the manufactures' manual or the work order.

5.0 PERSONNEL TRAINING AND/OR CERTIFICATION

Journey level electricians.

6.0 INSTRUCTIONS

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| 6.1 | Review work order, verify all required documentation is included |
| 6.1.1 | Review the work order and any specific safety instructions provided by the originator. |
| 6.1.2 | Review applicable manufactures' manual and customer specific instructions. Verify GRC-W7030.036 Activation of Components work instruction has been completed if appropriate. |
| 6.2 | Inform work order originator, operation personnel, and customer representative that system is ready to energize. |
| 6.2.1 | When authorized by operations personnel begin system preparations to energize the system. |

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| 6.2.2 | Verify any associated, interconnected or otherwise connected system will remain in a safe state prior to energizing the system. |
| 6.3 | Prior to energizing the system inform site personnel either by announcement, signs or other appropriate communication method that a system is going to be energized and that all non-essential personnel should stand clear. |
| 6.4 | Obtain final authorization from operations personnel just prior to energizing the system. |
| 6.5 | Energize the system and verify proper operation. |
| 6.6 | Upon completion of energizing the system and verifying the system is operating satisfactorily obtain permission from operations personnel to leave the system in an energized stat or return to a safe de-energized state. |
| 6.7 | If system is de-energized verify that all appropriate components, devices, etc. return to their normal state. |
| 6.8 | Inform the work order originator and operations personnel as to the final status of the system. |
| 6.9 | Complete documentation as required by the work order and forward to the work order originator. |

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7.0 Flow Diagrams

