



National Aeronautics and
Space Administration

John C. Stennis Space Center
Stennis Space Center, MS
39529-6000

SCWI-8715-0001
Rev A
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John C. Stennis Space Center Lightning Warning System

Approved by

Original Signature on File

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Stennis Work Instruction	SCWI-8715-0001	Rev A
	<i>Number</i>	<i>Rev.</i>
	Effective Date: May 1, 2007	
	Review Date: May 1, 2011	
Responsible Office: NASA QA00/Safety & Mission Assurance		
SUBJECT: Lightning Warning System		

1.0 PURPOSE

The purpose of this work instruction is to establish a notification process for John C. Stennis Space Center (SSC) personnel regarding actual and potential hazardous lightning conditions.

2.0 APPLICABILITY

This work instruction applies to all SSC personnel, including NASA and its contractors, as well as SSC resident agencies and their contractors at SSC, as directed in their applicable agreement documents.

3.0 REFERENCES

All references are assumed to be the latest version unless otherwise specified.

NPR 1441.1D, NASA Records Retention Schedule

SPR 8715.1, John C. Stennis Space Center Safety and Health Procedures and Requirements

SSP-8715-0001, John C. Stennis Space Center Safety and Health Handbook

4.0 RESPONSIBILITIES

Responsibilities are as follows:

NASA Office of Safety and Mission Assurance is responsible for the creation, implementation and verification of policy and procedures to ensure the highest level of warning of potential or actual lightning activity is available to all personnel at SSC.

NASA Center Operations Directorate is responsible for the procurement, maintenance and repair of equipment used to detect potential and actual lightning activity for SSC. Center Operations will also ensure the video feed for the lightning detection system is continuously fed through the SSC Video system and the SSC Homepage.

NASA Security is responsible for the activation of warning systems to alert personnel of potential and/or actual lightning activity that may threaten SSC operations per the guidance in this work instruction.

Each employer shall be responsible for assuring an adequate means for communicating lightning advisories and warnings to all potentially affected personnel. This includes the organization's employees as well as contractor personnel which the organization has direct or oversight responsibility.

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5.0 PROCEDURES

The SSC Lightning Detection System shall be available 24 hours a day, 7 days a week at the SSC Security Dispatch Office. When potential or actual lightning activity has been detected within a 10 mile radius of SSC, SSC Security will issue an action per the following chart:

Condition	Action Level
Lightning within 10 miles of SSC, but not within 5 miles	"Lightning Advisory"
Lightning indicated within 5 miles of SSC	"Lightning Warning"
Lightning has moved past 5 miles for at least 15 minutes, but is still within 10 miles of SSC	"Lightning Advisory"
Lightning has moved past 10 miles of SSC for 15 minutes	"All Clear"

Use of automated system is preferred, and shall include the following notifications. In case of automation failure, the SSC Security Dispatcher shall perform the following actions in 15 minute increments:

1. Issue proper action level on all radio frequencies.
2. Issue proper action level over the E-Complex paging system. (688-6000)
3. Issue proper action level over the A/B Test Complex paging system. (688-1112)
4. Place a telephone call to the Wellness Center informing them of action level. (688-3950)
5. Place a telephone call to the Child Care Center informing them of action level. (688-3224)
6. Place a telephone call to the Visitors Center informing them of action level. (688-2134)
7. Place a telephone call to the NAVSCAITS informing them of action level. (813-4050)
8. Place a telephone call to the SBU 22 informing them of action level. (813-4004)
7. Place a notation in the SSC Security Dispatcher Log stating date, time, and action level and indicating a positive or negative response to all phone calls.

Pages and radio calls will state the following:

For Lightning Advisory: "Attention all personnel. A Lightning Advisory has been issued for the Stennis Space Center. A Lightning Advisory means conditions exist that indicate lightning is possible for this location. Personnel should monitor conditions and be prepared to take protective measures if required." (REPEAT)

For Lightning Warning: "Attention all personnel. A Lightning Warning has been issued for the Stennis Space Center. A Lightning Warning means lightning, or the potential for lightning has been detected within 5 miles of the Stennis Space Center. All personnel shall immediately secure outside activities and take shelter in a secure location." (REPEAT)

For All Clear: "Attention all personnel. All Clear. All Lightning Advisories and Lightning Warnings have been cancelled for SSC." (REPEAT)

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6.0 RECORDS AND FORMS

All SSC Security Dispatch Logs shall be retained in accordance with latest version of the NASA Records Retention Schedule, NPR 1441.1D.

Training requirements for SSC Security will be maintained per NASA Records Retention Schedule, NPR 1441.1D.

Lightning data will be maintained for a period of 90 days.

All records and forms are assumed to be the latest version unless otherwise indicated. Quality Records are identified in the SSC Master Records Index.

7.0 DEFINITIONS/ACRONYMS

NASA	National Aeronautics and Space Administration
NPR	NASA Procedural Requirements
SPR	Stennis Procedural Requirements
SSC	John C. Stennis Space Center
SWI	John C. Stennis Space Center Work Instruction