

**U.S. Department of Energy
Washington, D.C.**

NOTICE

DOE N 153.1

Approved: 02-26-01

Expires: 10-26-01

SUBJECT: CONNECTIVITY TO ATMOSPHERIC RELEASE ADVISORY CAPABILITY

1. **OBJECTIVES.**

- a. To establish appropriate Department of Energy (DOE) and National Nuclear Security Administration (NNSA) ARAC connectivity requirements for all DOE sites and facilities that have the potential for releasing hazardous materials sufficient to generate certain emergency declarations to receive support from the Atmospheric Release Advisory Capability (ARAC) at Lawrence Livermore National Laboratory.
- b. To ensure that local site or ARAC response products (e.g., plume path maps, dose maps, deposition maps generated during emergency events are available in a timely manner to: DOE Headquarters; DOE sites and facilities and their respective State, Tribal, and local Governments; and, other Federal agencies.
- c. To ensure that the Department provides appropriate and consistent consequence assessment information to affected and other stakeholder parties during emergency events.
- d. To promote efficient use of resources for consequence assessment activities at DOE sites, facilities, operations, and activities in planning for and responding to emergency events.

2. **CANCELLATION.** None

3. **APPLICABILITY.**

- a. **DOE Elements.** This Notice applies to all DOE elements.
- b. **Contractors.** The Contractor Requirements Document (CRD, Attachment 1) applies to the universe of contractors awarded DOE or NNSA procurement contracts involving facilities and activities owned or leased by DOE or NNSA. Contractor compliance with the CRD will be required to the extent set forth in the contract.

Distribution:
All Departmental Elements

Initiated By:
Office of Security and Emergency Operations

4. EXEMPTIONS.

Requests for exemptions from the requirements of this Notice shall document the basis for each exemption and shall establish and justify alternatives equivalent to, or exceeding, this Notice. Requests for exemptions are jointly by the Secretarial Officer and the Director of Emergency Operations, with conflicts resolved by the Deputy Secretary or designated Chief Operating Officer for the Department. Requests for exemptions must be submitted from the Field Element Manager to the appropriate Secretarial Officer(s) and the Director of Emergency Operations.

5. REQUIREMENTS.

- a. To improve real-time consequence assessment capabilities for DOE sites and facilities during emergency events, ARAC capability must be available in the site/facility selected mode for use at all DOE or NNSA sites and facilities with the potential for releasing hazardous materials sufficient to generate declaration of a General Emergency in accordance with the criteria described DOE O 151.1A, COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM.
- b. To avoid unnecessary duplication at DOE or NNSA sites/facilities, ARAC capability can be used in different modes: primary source of consequence assessment information, backup to a primary source of consequence assessment, primary source of consequence assessment at distances beyond the scope of local consequence assessment capability, or source of corroborating or confirming consequence assessment information. The intent is not to eliminate an existing system, but to merge systems (electronically) to provide the desired corroborating/ confirming, backup, or primary consequence assessment mode capability. When a site system is down due to site emergencies, etc., alternative ARAC capability can be used to provide consequence assessment information provided that it also is not down.
 - (1) All DOE or NNSA sites and facilities with the potential for a General Emergency must have connectivity to ARAC capabilities, with procedures to effectively use the ARAC capability as part of real-time consequence assessment activities for the mode (primary, backup, corroborating) selected by the site/facility.
 - (2) All DOE or NNSA sites and facilities with the potential for a Site Area Emergency must have procedures in place to activate or request ARAC capabilities, and must be able to use those capabilities as part of real-time consequence assessment activities, in the event the consequence of the emergency reaches a General Emergency and the site capability of consequence assessment is down due to site emergencies, or technical difficulties.

- (3) All DOE or NNSA sites/facilities that have access to ARAC or that have procedures in place to activate or request ARAC capabilities must ensure that site/facility meteorological data and information on source terms for actual or potential releases of hazardous materials to the atmosphere can be made available to ARAC in a timely manner to facilitate real-time computations.

6. RESPONSIBILITIES

The Director, Office of Emergency Operations, provides overall direction for the DOE Emergency Management System. This includes managing and developing consequence assessment capabilities for emergency events, providing programmatic direction, and providing resources for the development, maintenance, and operation of ARAC.

7. CONTACT. To obtain assistance concerning this Notice, contact the Office of Emergency Operations, at 202-586-9892.



SPENCER ABRAHAM
Secretary of Energy

CONTRACTOR REQUIREMENTS DOCUMENT

DOE N 153.1, CONNECTIVITY TO ATMOSPHERIC RELEASE ADVISORY CAPABILITY

MANAGEMENT AND OPERATING CONTRACTORS

Contractors at Department of Energy (DOE) or National Nuclear Security Administration (NNSA) sites/facilities may use the Atmospheric Release Advisory Capability (ARAC) as a primary source of consequence assessment information, as a backup to a primary source of consequence assessment, and/or as a source of corroborating or confirming consequence assessment information. Contractors at DOE or NNSA sites/facilities must establish connectivity with ARAC as follows.

1. All DOE or NNSA sites and facilities with the potential for a General Emergency must have access to and procedures available to effectively use the ARAC capability as part of real-time consequence assessment activities as the primary, backup, or corroboratory capability selected by the site/facility.
2. All DOE or NNSA sites and facilities with the potential for a Site Area Emergency must have procedures in place to activate or request ARAC capabilities as the primary, backup, or corroboratory capability selected by the site/facility.
3. All DOE or NNSA sites/facilities that have access to ARAC or that have procedures in place to activate or request ARAC capabilities must ensure that site/facility meteorological data and information on source terms for actual or potential releases of hazardous materials to the atmosphere can be made available to ARAC in a timely manner to facilitate real-time computations.