IMPLEMENTATION AND ADMINISTRATION OF ABANDONED UNDERGROUND MINE INVENTORY AND RISK ASSESSMENT STANDARD PROCEDURES

PURPOSE

Policy Number 27-006(P) establishes that the Ohio Department of Transportation will utilize a uniform system for implementing and maintaining a statewide inventory and risk assessment of all roadway locations over and/or adjacent to abandoned underground mines. Policy Number 27-006(P) also establishes that this work shall be performed as documented in the Manual for Abandoned Underground Mine Inventory and Risk Assessment, May 15, 1998 as produced by the Design Resource Section of the Office of Geotechnical Engineering (formerly the Geotechnical Design Section, Office of Materials Management). The Division of Construction Management has been assigned the responsibility of establishing this statewide policy. The Office of Geotechnical Engineering, within the Division of Construction Management, will direct and coordinate the statewide implementation and permanent administration of this policy.

The AUMIRA process involves the gathering and evaluation of information for roadway sites over and/or adjacent to abandoned underground mines. An inventory of sites is established, then sites are evaluated for relative levels of risk. The risk assessment portion of the process considers site conditions and level of the public’s exposure.

The process requires establishing a unified statewide database of information for roadway sites. Uniformity of data establishment within the AUMIRA database is necessary to allow for relative risk assessment among sites within a given District, or statewide. The Office of Geotechnical Engineering, Design Resource Section, with the assistance of the Division of Information Technology (DoIT), has established and is administering an AUMIRA statewide enterprise database. The database is structured to be compatible with Base Transportation Referencing System (BTRS) standards, allowing access through GQL and GIS. The database is accessible to all Districts, Divisions, and Offices of the Ohio Department of Transportation. The Office of Geotechnical Engineering has trained District staff regarding the AUMIRA process and the
statewide database. The District staff members were designated by their District Deputy Directors as liaisons to the AUMIRA process in response to a September 29, 1995 IOC from former Assistant Director Christopher Runyan announcing the beginning of the AUMIRA development.

When performed on a statewide basis and in a uniform manner, this process shall be utilized to make an informed assessment of where and how the Department can best apply available resources to existing highest risk roadway locations. The resulting information will be a valuable resource for Planning, Production, and Highway Management operations. The overall goal of the AUMIRA process is to enhance the safety of the traveling public.

This same process shall be integrated into the Project Development Process for existing roadway alignments, existing roadway realignments, new roadway corridors, and other transportation corridors.

This Standard Procedure is issued under the direction of Policy No. 27-006(P) dated July 22, 2002.

AUTHORITY

Policy No. 27-006(P)
Sections 5501.02, 5501.03, 5501.11 and 5501.31, Ohio Revised Code (ORC).

REFERENCES


SCOPE

All Districts, Regions, Divisions, and Offices of the Ohio Department of Transportation.

DEFINITIONS:


BTRS Base Transportation Reference System

DAC District AUMIRA Coordinator
DDD District Deputy Director

Department: Ohio Department of Transportation
PROCEDURAL STATEMENT

I. Division of Construction Management

A. Authority - The SPC shall be given the authority by the Deputy Director of the Division of Construction Management to implement and administer AUMIRA, and to serve as coordinator between the Districts and Central Office.

B. Responsibilities - The SPC shall:

1. Establish statewide AUMIRA standards.
2. Coordinate the statewide implementation of the AUMIRA process.
3. Serve as liaison to the Districts for the Division of Construction Management for AUMIRA process implementation and administrative issues.
4. Act as a liaison to other state and federal agencies for the Department.
5. Coordinate and participate in AUMIRA training for District and Central Office staff, and external customers.
6. Conduct periodic training sessions, field trips and activities, and statewide coordination meetings. The purposes of these meetings shall be: a) to assist in the establishment and maintenance of a unified, state-wide database, and b) to provide continuing education and technology transfer regarding innovative methods of investigation and remediation.
7. Provide technical advice regarding scoping of AUMIRA-related investigations and remediation.
8. Provide geotechnical review and comments regarding site or project reports.
II. Each District Office

A. Authority - The DAC shall be given authority by the DDD to implement, administer, and maintain the AUMIRA process and database for the District. The DAC shall be familiar with the content of the May 15, 1998 AUMIRA manual through completion of AUMIRA training defined and provided by the Office of Geotechnical Engineering. All communications between the District and Central Office regarding AUMIRA shall go through the DAC.

B. Responsibility - The DAC shall:
   1. Be responsible for the work described in the AUMIRA manual as being done “by the District” or done by “the coordinating District engineer” including obtaining AUMIRA data for roadway sites within the District for input into the statewide database.
   2. Be the District manager of the AUMIRA database including inputting data, correcting or updating data, and assigning permission for other District staff to input data.
   3. Be responsible for maintaining a site monitoring program for AUMIRA inventory sites in the District.
   4. Participate in periodic training sessions, field trips, activities, and statewide coordination meetings as requested by the SPC.
   5. Provide written monthly and annual reports to the SPC. The SPC will set the required format for the reports.

III. AUMIRA Site Identification, Investigation, and Remediation

A. District responsibility - The District is responsible for identifying, evaluating, and inputting into the statewide database all AUMIRA sites within the District. The AUMIRA process will be closely followed by the DAC. All Districts shall complete the initial population of the AUMIRA database for all sites within their geographic area within three years after the establishment of a policy and standard procedure. The DAC will work closely with District Planning, Production and Highway Management personnel to assure the information is available and being utilized.

B. Central Office responsibilities - If requested, the SPC will provide support to the Districts in site identification, investigation, documentation, and remediation.

FISCAL ANALYSIS

The Standard Procedure has no impacts in addition to those identified in the policy.