

AUG 27 1993

Mr. Dwight E. Shelor, Associate Director
 for Systems and Compliance
 Office of Civilian Radioactive Waste Management
 U.S. Department of Energy
 1000 Independence Avenue, SW
 Washington, DC 20585

Dear Mr. Shelor:

SUBJECT: REQUEST FOR TECHNICAL DATA

The Division of High-Level Waste Management of the U.S. Nuclear Regulatory Commission requests the following technical data that is resident in the Yucca Mountain Project Office ARC/INFO-INGRES data base. All the requested data are listed in the GENESIS Data Dictionary (the "meta" data for the data listed in the Technical Data Catalog) and are referenced in Appendix D of the 12/31/92 issue of the Technical Data Catalog and the Supplements (no Data Tracking Numbers [DTNs] are associated with these data).

In general, this request is for all the base map information (spatial data) for the Yucca Mountain area. Specifically, such data as the following are being requested:

- ARC/INFO topographic data (processed USGS DEM)
- Mapping information and references, benchmarks, survey reference points
- All existing field investigation and instrumentation locations (coordinates x,y,z), with accompanying ID information, e.g.
 - all well locations (groundwater, neutron, etc)
 - all biological study locations
 - all ecological sampling locations
 - all pit and trench locations
 - all rain gage locations
 - all runoff gaging site locations
 - all surface sampling sites
 - all soil sampling sites
 - all vegetation sampling sites
 - all meteorological stations
 - all air quality sampling sites
 - all infiltration plot/test sites
 - all groundwater recharge stations
- All proposed field investigation and instrumentation locations with accompanying ID information.

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- **Geologic:**
 - Geoelectric
 - Resistivity
 - Gravimetric
 - Mapped surface rock exposures
 - Mapped surface fault traces with displacement
 - Mapped alluvium
 - Bulk density
 - Bulk modulus
 - Thermal conductivity
 - Core information
 - Fracture data
 - Lithology
 - Mineralogy
 - Paleomagnetic
 - Seismic
 - Stratigraphic
 - Tectonic Breccia
 - Velocity

- **Hydrologic**
 - Matrix potential
 - Conductivity
 - Flood plains
 - Fluvial; stream, river courses
 - Lakes
 - Permeability
 - Moisture content (pore water, saturation)
 - Porosity
 - Transmissivity
 - Water chemistry (quality)
 - Water levels
 - Water production
 - Spring locations, discharge rates
 - Hydrographic areas in Nevada
 - Waterbasins (administrative)

- **Biologic (Selected)**
 - Vegetation surveys (mapping)

- **Socio-Economic/Administrative**
 - Demographic (population data)
 - Land ownership
 - Mining claims
 - Mining activity
 - Political/governmental boundaries
 - Public lands
 - Location of all roads, streets, transmission lines, pipe lines, rail roads, trails, airfields, etc.

- Facilities
 - Central support area buildings, streets, sidewalks, etc.
 - Exploratory Studies Facility, location, coordinates and design configurations for ramps and drifts
 - Perimeter outline (x,y,z) of the proposed repository
- Remote Sensing
 - Orthophoto (most recent low altitude aerial photography of the Yucca area, 10" x 10" stereo prints)

These data are for loading the data base of the Division of High-Level Waste Management's Advanced Computer Review System which will be using ARC/INFO & EarthVision to view and manipulate the data for the license review process. For all the requested data except the aerial photos, please copy the digital data files to the enclosed 8mm Data Cartridge (Tape number NRC YMS-0001, 1 GB capacity) with ARC/INFO export files command and return by express mail.

If you have any questions regarding this request, please contact Ms. Charlotte Abrams of my staff at (301) 504-3403.

Sincerely,

JS
 Joseph J. Holonich, Director
 Repository Licensing and Quality Assurance
 Project Directorate
 Division of High-Level Waste Management
 Office of Nuclear Material Safety
 and Safeguards

- cc: R. Loux, State of Nevada
 T. J. Hickey, Nevada Legislative Committee
 C. Gertz, DOE/NV
 M. Murphy, Nye County, NV
 M. Baughman, Lincoln County, NV
 D. Bechtel, Clark County, NV
 D. Weigel, GAO
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 F. Sperry, White Pine County, NV
 R. Williams, Lander County, NV
 L. Fiorenzi, Eureka County, NV
 J. Hoffman, Esmeralda County, NV
 C. Schank, Churchill County, NV
 L. Bradshaw, Nye County, NV
 A. Simmons, DOE/NV w/tape

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