## **MINNESOTA DEPARTMENT OF PUBLIC SAFETY**



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# Office of the Commissioner

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Minnesota State Patrol

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Office of Traffic Safety

State Fire Marshal and Pipeline Safety Governor Tim Pawlenty Chief Justice Russell Anderson State of Minnesota Minnesota Supreme Court

The Honorable Linda Higgins, Chair The Honorable Thomas Neuville Senate Public Safety Budget Division

The Honorable Leo Foley, Chair Judiciary Budget Division

Dear Colleagues:

Pursuant to Minnesota Statute 116C.731, subd. 4, the Department of Public Safety shall report to the legislature on the status of the plan and the ability of the state to respond adequately to an accident related to the transportation of high level radioactive waste.

The Honorable Michael Paymar, Chair

House Public Safety Finance Committee

The Honorable Steve Smith

Enclosed, please find the 2006 report developed by the Division of Homeland Security and Emergency Management. The Department views this correspondence as satisfying the reporting requirements as provided in M.S. 116C.731, subd. 4.

If you need further information, please do not hesitate to contact me or Kris Eide, Director of Homeland Security and Emergency Management at 651 201-7404.

Sincerely.

Michael Campion Commissioner

cc: Legislative Reference Library

#### 2006 Report to the Legislature On

The Status of Emergency Planning For High-Level Radioactive Waste Transportation Accidents/Incidents, And the Ability of the State to Respond Adequately to an Accident

### Minnesota Department of Public Safety Division of Homeland Security and Emergency Management

#### December 2006

Minnesota Statutes, Section 116C.731 requires the Commissioner of the Department of Public Safety (DPS) to "...prepare a plan for emergency response to a high-level radioactive waste transportation accident..." In response to this requirement, in 1984 the Department's (then) Division of Emergency Services (DES) coordinated the development of such a plan. In conformance with Section 116C.731, the Department of Health (MDH), the Department of Transportation (Mn/DOT), the State Patrol and the Minnesota Pollution Control Agency (MPCA) also participated in the preparation of this document. In 1987 DES became DEM (Division of Emergency Management), and DEM coordinated the updating of the plan in March 1988, and April 1993. In 1995, in light of the growing emphasis on all-hazard emergency planning and preparedness, DEM determined that a change in the State's approach to emergency planning was warranted. Specifically, the decision was made to eliminate the stand-alone high-level radioactive waste (HLRW) transportation plan, as well as the Minnesota Emergency Response Plan for Nuclear Power Plants, and to incorporate their contents into an all-new, all-hazard Minnesota Emergency Operations Plan (MEOP). Copies of the new plan were distributed to all affected State agencies and departments, as well as a large number of other government entities and private organizations. In February 2004, the former (State) Office of Homeland Security, and the Division of Emergency Management, were consolidated into a new agency known as the Division of Homeland Security and Emergency Management (HSEM), and as a result, over time it is anticipated that the MEOP will be revised to include certain homeland security-related information. That process has received further impetus following the completion of the National Response Plan in December 2004. Finally, in the aftermath of Hurricane Katrina the identification of serious emergency planning shortfalls at the federal, state and local government levels has resulted in a Congressionally-required National Plan Review. This mandated plan review includes a requirement that every state (and certain municipalities) describe, and assess the adequacy of, the planning it has done to ensure its preparedness for a catastrophic event. The MEOP is being updated to include catastrophic type incidents.

Section 116C.731 also requires the DPS Commissioner to report annually to the Legislature on the "...status of the plan and the ability of the state to respond adequately to an accident." The Division's practice for a number of years has been to address the "status of the plan" issue two ways. First, in order to meet federal requirements in this area, it normally updates the *Minnesota Emergency Operations Plan* at least annually. The Division coordinates this task, and in so doing, obtains the participation of and solicits comments from all of the State agencies represented on the Minnesota Emergency Preparedness and Response Committee. Utilizing this process, since 1996 the MEOP has normally been updated every

year. The 2006 update is underway and should be completed in late December 2006, or early January 2007.

Second, the Division annually contacts the State Patrol, MDH and Mn/DOT to enquire as to whether those agencies have any specific comments regarding the "status of the plan" question. (The MPCA no longer has any accident assessment responsibilities with respect to radioactive materials.) This year, some of the aforementioned agencies forwarded changes that pertained directly to the content of the MEOP. The evacuation routes surrounding Minnesota's Nuclear Generating Power Plants have been updated to allow for easier exit away from the affected areas. In addition, by having the routes (identified) before hand will allow for better understanding during training of our responders during drills, exercises and actual incidents.

Mn/DOT and HSEM have completed and submitted preferred routes for the shipment of spent nuclear fuel to Yucca Mountain, Nevada, the site designated for the future national repository for such fuel (sse below). This early rout identification was in reference to a project undertaken in 2005 by the Midwestern Radioactive Materials Transportation Committee (MRMTC). Specifically, at the invitation of the Department of Energy (DOE), the MRMTC utilized DOE-developed software to identify a suite of shipping routes in every Midwestern state, including Minnesota, which potentially would meet federal and state health and safety criteria. These routes could be used to ship high-level radioactive waste (HLRW) and spent fuel from the country's nuclear generating plants to Yucca Mountain. In December 2005 the MRMTC forwarded the suite of potential shipment routes it had identified to the DOE. DOE is slated to initiate the very lengthy process of identifying and selecting shipment routes in 2007. The work done by Minnesota in early route identification will be considered by DOE.

At the same time that it asks for comments regarding the status of the plan, HSEM inquires as to whether the Department of Health, the State Patrol, and the Department of Transportation have any comments regarding "... the ability of the State to respond adequately to an accident." In response, this year both the Department of Health (MDH) and the Department of Transportation forwarded such comments. The Department of Health reported on two areas that it believes constitute a continuing need: training and equipment replacement. With respect to training, MDH noted the following: 1. To ensure that sufficient personnel are available for all types of radiological responses, including high-level radioactive materials accidents and incidents, two staff attended Radiological Emergency Response Operations (RERO) training in the past year, and three MDH staff are scheduled to attend RERO training in the first half of 2006; 2. An MDH health physicist attended training at the DOE's Radiation Emergency Assistance Center Training Site in Oak Ridge, Tennessee, and 3. The Oak Ridge Institute for Science and Education provided health physics training for several new MDH Radiation Control staff. In terms of equipment replacement, MDH reported that it was successful in obtaining funding to purchase emergency response kits that contained radiation detection equipment. Four of those kits were loaned to the Minnesota Department of Transportation's Hazardous Materials Inspectors to assist them in responding to transportation events involving radioactive materials.

*Mn/DOT* also forwarded several comments pertaining to training. First, it reported that during 2005 its Hazardous Materials staff received "Level 6" Certification training in Radioactive Materials Transportation inspections. New Federal Regulations require Level 6 certified officers to perform a pre-

trip inspection of all vehicles carrying shipments of Highway Route Controlled Quantities (HRCQ) of Radioactive Materials (RAM). This training is also relevant to RAM spill response, and is designed to prevent incidents involving radioactive materials during transport. Mn/DOT stated "This training will permit Mn/DOT to proactively respond to HAZMAT spills, with an enhanced degree of safety, and to return the roadway to normal conditions more quickly." Second, the Department indicated its responders are trained annually to "…respond to nuclear generating plant incidents, through the Department's standard operating procedures", and that HSEM staff assist with this training by providing "…general knowledge of the affect radiation has on the body and proper REM levels and dosimetry readings." Lastly, Mn/DOT reported that two of its Office of Homeland Security and Emergency Management staff, and one staff member each from its Office of Freight and Commercial Vehicle Operations, and its Metro District Office received training sponsored by the Department of Homeland Security.

In addition to forwarding the foregoing training information, Mn/DOT commented, as it did last year, that any information it can obtain as to the rail and shipment routes that will be used to transport HLRW would "...allow for better coordination with our HAZMAT staff and District Offices." The Department believes that having advance knowledge of the routes in question would definitely improve Minnesota's "...ability...to respond adequately to an accident." All highway carriers of HRCQ of RAM must possess a Hazardous Materials Safety Permit from the USDOT, and Hazardous Materials Specialist from Mn/DOT monitor the status of these carriers. The Mn/DOT Office of Freight and Commercial Vehicle Operations is reviewing its procedures on hazardous materials routing to assure radioactive HRCQ are operated on routes that minimize radiological risk.

In 1997 a consortium of eight utilities (known as Private Fuel Storage [PFS]), including (then) Northern States Power Company, submitted an application to the Nuclear Regulatory Commission (NRC) for establishment of a private fuel storage facility to be constructed in the State of Utah. In the following year HSEM began focusing on the potential impact of that facility on the shipment of HLRW through Minnesota. Such shipments, of course, would require additional emphasis on Minnesota's preparedness for and response to a potential HLRW transportation accident/incident. Consequently, in 1998 the division initiated discussions with Xcel Energy regarding the possible shipment by that Corporation of HLRW to the proposed storage facility in Utah. In February of 2005 the Atomic Safety and Licensing Board submitted its recommendation to the NRC that the Commission grant a license, and in September of 2005 the NRC authorized its staff to do so. PFS has indicated it is possible that the storage facility could be operational in 4-5 years. However, the actual project completion date would be impacted by a number of variables, one of which is whether or not the necessary customer base can be established to fund construction of the facility, and if it can be, how long that process might take. Division staff will continue to monitor the status of the PFS project, and will coordinate with both Xcel Energy and affected state and local government personnel, as necessary.

An ongoing HLRW issue of continuing concern has been discussed in the last several Annual Reports. That issue is the current lack of funding for State agency HLRW transportation accident/incident preparedness and response activities. There are two parts to this problem. First, Minnesota Statutes, Section 116C.731, Subdivision 3, requires shippers of HLRW to pay a \$1,000 fee for each vehicle carrying HLRW through the State of Minnesota. The same Statute also mandates that the fees be paid to the DPS commissioner, who in turn is to deposit them in the State's General Fund. As explained in

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several previous Reports, because the fees in question are deposited in the General Fund, they are not accessible to the State agencies that will likely incur considerable expenses in order to prepare for and respond to HLRW shipments. Secondly, because the (potential) Xcel shipments discussed above would constitute shipments by a private company rather than Department of Energy shipments, they would not be subject to the provisions of Section 180(c) of the (U.S.) Nuclear Waste Policy Act. As a result, the State of Minnesota would not be eligible to receive any DOE funding to cover the cost of the shipment-related planning, training, and exercising that would likely be deemed necessary in order to adequately prepare for the shipments. Nor would federal funding be available to purchase additional radiation detection/protection equipment, should Minnesota determine that such equipment would be beneficial. Lastly, because both the starting date of the potential Xcel shipments to Utah and the number of those shipments each year can only be estimated at this time; planning for them is extremely difficult.

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The Department of Energy is charged with taking all actions necessary to permit the future shipment of HLRW and spent fuel to Yucca Mountain, Nevada, the location of the national repository that is to be constructed at that site. To-date, however, the DOE has not identified the suite of routes that will be used to ship the waste and spent fuel to Yucca Mountain, nor is the date when such shipments will be initiated known. (The current estimate is 2017, at the earliest.) Consequently, all the states have found it very difficult to engage in any meaningful planning in preparation for the future shipments. However, the DOE is expected to initiate its route identification and selection process in 2007, the conclusion of which process will assist Minnesota and other states in their shipment preparations.

In the coming year the division will continue to track high-level radioactive waste issues that may impact the State of Minnesota.