

**ENCLOSURE 2
ATTACHMENT 29**

SHINE MEDICAL TECHNOLOGIES, INC.

**SHINE MEDICAL TECHNOLOGIES, INC. APPLICATION FOR CONSTRUCTION PERMIT
RESPONSE TO ENVIRONMENTAL REQUESTS FOR ADDITIONAL INFORMATION**

SHINE CULTURAL RESOURCES MANAGEMENT PLAN

SHINE Cultural Resources Management Plan

1. Introduction and Background Information

In accordance with Title 10 of the Code of Federal Regulations (CFR) Part 50 “Domestic Licensing of Production and Utilization Facilities,” and supporting guidance, SHINE Medical Technologies, Inc. (SHINE) provided an Environmental Report (ER) in support of an application to construct and operate a radioisotope production facility in Janesville, Wisconsin.

As described in the ER, the SHINE site consists of a 91 acre parcel that has been used as farmland since the 1930’s. The land is routinely disturbed by the disking, plowing, herbicide application and harvesting activities associated with row crop production. Potential construction-related land use impacts to the SHINE site will result from the SHINE facility construction grading plan. Activities such as earthmoving, excavation, pile driving, erection, batch plant operation, and construction-related traffic generate potential disturbances to land use during the construction phase of the SHINE project. Construction-related direct impacts to the site are limited to land previously utilized for agricultural/cultivated crop production. The construction of the SHINE plant has the potential to uncover buried and previously undiscovered cultural resources.

Of the 91 acres comprising the SHINE site, construction permanently converts approximately 26 acres of agricultural/cultivated crops to industrial facilities. Permanent conversions to industrial facilities include the construction of facility buildings, the employee parking lot, the facility access road/driveway, the storm water detention area, and plant access road and drainage ditches. Direct construction impacts also include the temporary impact of about 15 acres of agricultural lands on-site to be used for the construction parking area, construction material staging or lay down area, and temporary disturbance from water and sewer line installation. Temporary impact areas will be returned to agriculture or restored with either cool season grasses or native prairie.

This Plan satisfies the requirement described in the ER that, prior to construction, SHINE will develop a Cultural Resource Management Plan (CRMP). Procedures implementing this Plan that govern notification and management of cultural resources will be developed prior to construction.

The nearest property listed on the National Register of Historic Properties (NRHP) is the Hugunin House located approximately 1.1 miles from the SHINE site. No direct impacts occur to this property by either construction or operational activities.

Due to the absence of historic cemeteries and prehistoric mounds within the boundaries of the SHINE site, the potential for the presence of human burials, human remains, or other cultural resources is small.

2. Management Plan Scope

The scope of this CRMP applies to the SHINE project, encompassing the entire facility site, construction of the buildings, roads, associated infrastructure, and subsequent operation and decommissioning of the plant. It does not apply to building, trenching, construction, or any other activities performed in conjunction with or in support of the SHINE facility that are not on the SHINE property. This Plan addresses how SHINE will identify, assess, and protect cultural

resources that could be affected by the construction, operation, and decommissioning of the SHINE radioisotope production plant.

3. Stipulations

As part of the evaluations conducted for the SHINE construction permit application, SHINE has performed a Phase 1 archaeological survey of the site to identify cultural resources. The survey report was incorporated into the Environmental Report, submitted to the NRC on March 26, 2013, as Part 1 of the SHINE construction permit application. There are no known on-site historic properties associated with the SHINE site. No archaeological sites or evidence of cultural resources were identified within the survey area.

The Wisconsin Historical Society (WHS) reviewed the findings of the archaeological survey and indicated that no further consultation with the State Historic Preservation Office (SHPO) regarding the SHINE facility is required.

SHINE initiated consultation with 13 federally recognized tribes regarding the proposed development. A single response letter was received from the Winnebago Tribe of Nebraska who indicated that they have cultural properties of interest in the project area, but had no concerns regarding the project. Follow-up calls were made to representatives of the remaining 12 tribes; however, no return calls to SHINE were received.

Since the areas of potential ground disturbance within the construction site have been surveyed, the discovery of cultural resources during construction is not anticipated. If unanticipated cultural resources or materials, except for human remains, are discovered, the activities in that area will be immediately halted, the area protected, and the Environment, Health, and Safety (ES&H) Manager will be notified. The ES&H Manager will determine if additional consultations, such as with the WHS, are needed. After consultation it may be determined that additional investigations are needed. In this case a plan for the investigation and preservation of the cultural resources will be developed by the SHINE Environment, Health, and Safety (ES&H) Manager and approved by SHINE management. The work that uncovered the cultural resources will not recommence without SHINE management approval.

The procedures for uncataloged burial sites are regulated in Wisconsin Statutes 157.70 Burial sites preservation. If actual or suspected human burials or human remains are discovered, the activities in that area will be immediately halted, the area protected, and work not resumed without consultation and agreement with the WHS. Appropriate local law enforcement will also be contacted. The work that uncovered the human remains will not recommence without SHINE management and WHS approval.

The Winnebago Tribe of Nebraska requested that they be contacted if any burial sites are uncovered. The ES&H Manager will be responsible for contacting the Tribe if a burial site is found.

Cultural resources or materials are any artifacts or other evidence of past human activity that is not obviously of recent origin. These could include artifacts of archeological or historical interest or importance. If there is any doubt about the nature of the artifact or evidence, the SHINE ES&H Manager should be contacted to assist with the determination.

The discovery of any cultural resources or materials will be documented in an Issue Management Report (IMR). Investigations, reports, and plans will be filed with the IMR.

SHINE recognizes that this site has been used for agriculture for many decades, and as such the site and ground have been extensively disturbed. Inadvertent or unknown damage to cultural resources may have occurred in the past beyond the knowledge of SHINE or the ability of SHINE to preserve the resources. SHINE will make every reasonable effort to preserve the cultural resources of the facility site.

4. Cultural Management Plan Execution

It is the responsibility of SHINE employees and contractors engaged in or supervising any activities that disturb the ground at the plant site to understand the contents of this plan and to follow the requirements of the plan. Questions regarding the plan should be referred to the SHINE ES&H Manager or other appropriate SHINE manager.

An IMR will be prepared for each instance of inadvertent discovery, as described above. In the event that the IMR investigation identifies historical or archaeological artifacts of importance or that generate academic interest, SHINE will work with the appropriate agencies to ensure the artifacts are preserved and further investigations are conducted to identify and understand the importance in the context of the cultural heritage of the state and region. Work that uncovers human remains will not recommence without SHINE management and WHS approval.

5. Training and Education

SHINE will educate its employees and contractors engaged in the construction, operation, or decommissioning of the site in a capacity that disturbs the ground or that could result in the discovery of cultural resources on the contents and requirements of this plan. The training and education will include an emphasis on the responsibility and authority to halt construction activities if actual or suspected cultural resources are discovered. Examples of cultural resources will be discussed in the training. Training will include a review of this plan and implementing procedures. The actions for the special case of the discovery of human remains will be discussed in the training.

6. Post-Construction Operations

Normal operations at the SHINE plant will have a very low potential for ground disturbance. Nevertheless, this plan will remain in effect for the life of the facility, and through decommissioning.

7. Emergency Response

In the very unusual event of an emergency (e.g., personnel safety, the possibility for more than minor damage to property or equipment) that might impact discovered cultural resources, the emergency response and recovery will take precedence over the preservation of the cultural resources. After the emergency is resolved, the requirements of this plan will be implemented. The immediate job supervisor is responsible for using proper judgment regarding emergency response.