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To <u>John Greeves</u>		From	
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April 15, 1998

VIA FAX

Note To: Reviewers of Assured Isolation Licensing ReportFrom: Bill Newberry *BN*

Re: Draft Glossary for Assured Isolation Licensing Report

On March 24, when we provided you the draft Assured Isolation Licensing Report for review, we indicated that a draft glossary would be forthcoming. Attached is the draft glossary. If you have any comments on the glossary, please provide them to me by April 22.

We are pleased to let you know that the Nuclear Regulatory Commission (NRC) has agreed to review the revised draft of the document. We will provide a briefing for the NRC staff in May, prior to commencement of their review.

If you have any questions, please do not hesitate to contact Tom Kerr (208-526-8465, tak@inel.gov) or me (208-526-5163, wfn@inel.gov), fax 208-526-9165.

cc: Mike LaFreniere, DOE/ID

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## Appendix 1.A – Glossary of Terms, Abbreviations, and Acronyms

**Active Maintenance** – Any improvements or repairs to the physical features of an AIF that are intended to preserve the ability of the facility to perform its function of isolating radioactive waste.

**Agreement State** – Any state with which the Atomic Energy Commission or the Nuclear Regulatory Commission has entered into an effective agreement under subsection 274b of the Atomic Energy Act of 1954.

**AIF** – Assured Isolation Facility

**ALARA** – As Low as Is Reasonably Achievable. Making every reasonable effort to maintain exposures to radiation as far below the applicable dose limits as is practical consistent with the purpose for which the licensed activity is undertaken, taking into account the state of technology, the economics of improvement in relation to benefits to the public health and safety, and other societal and socioeconomic considerations, and in relation to utilization of nuclear energy and licensed materials in the public interest.

**As Low as Is Reasonably Achievable** – See **ALARA**

**Assured Isolation** – An integrated management system for isolating waste, while preserving options for its long-term management, through (a) robust, accessible facilities, (b) planned, preventive maintenance, and (c) sureties adequate to address contingencies or implement future alternatives.

**Assured Isolation Facility (AIF)** – Structures and land containing the operational components of a site for Assured Isolation. Includes, but may not be limited to, assured isolation units and their covers, administrative and support facilities, waste staging areas, and the roads and access ways that connect such structures. Excludes the buffer zone surrounding the perimeter of the facility.

**Assured Isolation Site** – The land area on which an AIF and buffer zones are located, including that portion of the earth underlying the site that is of geotechnical significance.

**Assured Isolation Units (or Vaults)** – In plural form, the array of structures of an AIF in which waste is emplaced for indefinite isolation. In singular form, each cell or room in the array in which waste is housed.

**Buffer Zone** – Portion of an Assured Isolation Site controlled by the licensee that lies between the AIF and the boundary of the site.

**Byproduct Material** – (1) Any radioactive materials (except special nuclear material) yielded in, or made radioactive by, exposure to the radiation incident to the process of producing or utilizing special nuclear material; and (2) the tailings or wastes produced by the extraction or concentration of uranium or thorium from ore processed primarily for its source material content.

**Custodial Agency** – An agency of the federal or a state government designated to act on behalf of the government owner of a disposal site in monitoring and maintaining the site following termination of the license.

**Decommission** – To remove a facility or site safely from service and reduce residual radioactivity to a level that permits termination of the license and release of the property for restricted or unrestricted use in accordance with applicable regulations.

**Disposal** – The isolation of radioactive wastes from the biosphere inhabited by man and containing his food chains by emplacement in a land disposal facility as defined in 10 CFR Part 61.

**Dose Equivalent** – The product of the absorbed dose in tissue, quality factor, and all other necessary modifying factors at the location of interest.

**Effective Dose Equivalent** – The sum of the products of the dose equivalent to the organ or tissue and the weighing factors applicable to each of the body organs or tissues that are irradiated.

**Facility** – See Assured Isolation Facility

**Inadvertent Intruder** – A person who might occupy a disposal site after the end of active institutional control and engage in normal activities, such as agriculture, dwelling construction, or other pursuits in which the person might be unknowingly exposed to radiation from the waste.

**Inspection** – Surveillance that is focused on a specific feature, characteristic, or procedure of a facility or site.

**Isolation** – Segregation and impoundment of waste in a manner intended to protect the biosphere inhabited by man and containing his food chains.

**Low-Level Radioactive Waste (LLRW)** – Radioactive waste not classified as high-level radioactive waste, transuranic waste, spent nuclear fuel, or byproduct material as defined in section 11e(2) of the Atomic Energy Act (tailings and waste from uranium or thorium).

**Materials License Facility** – A facility licensed under 10 CFR Parts 30, 40, or 70.

**Mixed Waste** – Low-level radioactive waste that contains listed hazardous waste or exhibits a hazardous characteristic identified in Subpart C of 40 CFR Part 261.



**Monitoring** – Evaluating the characteristics or performance of a facility or a site through systematic measurement and analysis of specific variables.

**Naturally-Occurring Radioactive Material (NORM)** – Radioactive material that is naturally present in the earth's crust.

**Near-Surface Disposal Facility** – A land disposal facility in which radioactive waste is disposed of in or within the upper 30 meters of the earth's surface.

**NRC** – Nuclear Regulatory Commission

**Operations or Operational Period** – The period of time during which waste is accepted and emplaced in an AIF. (Operations cease when waste is no longer being accepted or emplaced, though active monitoring and maintenance of the assured isolation units may continue.)

**Site** – See Assured Isolation Site

**Site Closure and Stabilization** – Actions taken upon completion of operations that prepare a disposal site for custodial care and that are intended to assure that the site will remain stable and will not need ongoing active maintenance.

**Source Material** – (1) Uranium, thorium or any other material which is determined by the Nuclear Regulatory Commission, pursuant to the provisions of section 61 of the Atomic Energy Act of 1954, as amended, to be source material, or (2) ores containing one or more of the foregoing materials in such concentrations as the Nuclear Regulatory Commission may be regulation determine from time to time.

**Special Nuclear Material** – (1) Plutonium, uranium enriched in the isotope 233 or in the isotope 235, and any other material that the Nuclear Regulatory Commission, pursuant to the provisions of section 51 of the Atomic Energy Act of 1954, as amended, determines to be special nuclear material, but does not include source material, or (2) any material, except source material, that is artificially enriched by any of the foregoing.

**Surveillance** – Observation of a site or a facility to detect the need for maintenance, custodial care, or compliance with other license and regulatory requirements.

**Uranium Mill Tailings** – The wastes remaining after uranium has been extracted or concentrated through the processing of uranium ore.