

NUCLEAR REGULATORY COMMISSION

[Docket No. 40-8989]

In the Matter of EnergySolutions, LLC (formerly Envirocare of Utah, LLC) Order Modifying Exemption from 10 CFR Part 70

AGENCY: Nuclear Regulatory Commission.

ACTION: Issuance of Order Modifying Exemption from Requirements of 10 CFR part 70.

FOR FURTHER INFORMATION CONTACT: James Park, Environmental and Performance Assessment Directorate, Division of Waste Management and Environmental Protection, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Telephone: (301) 415-5835, fax number: (301) 415-5397, e-mail: *JRP@nrc.gov*.

SUPPLEMENTARY INFORMATION:

I. Introduction

The Nuclear Regulatory Commission (NRC) is issuing an Order pursuant to section 274f of the Atomic Energy Act to EnergySolutions, LLC (formerly Envirocare of Utah, LLC) concerning EnergySolutions' exemption from certain NRC licensing requirements for special nuclear material. This Order reflects the change in company name from Envirocare of Utah, LLC to EnergySolutions, LLC.

II. Further Information

EnergySolutions, LLC (EnergySolutions) operates a low-level waste (LLW) disposal facility in Clive, Utah. This facility is licensed by the State of Utah, an Agreement State. EnergySolutions also is licensed by Utah to dispose of mixed waste, hazardous waste, and 11e.(2) byproduct material (as defined under section 11e.(2) of the Atomic Energy Act of 1954, as amended). By letter dated March 3, 2006, EnergySolutions notified the NRC that the company had changed its name from Envirocare of Utah, LLC and requested that the NRC reflect this name change in identified NRC staff documents.

Section 70.3 of 10 CFR part 70 requires persons who own, acquire, deliver, receive, possess, use, or transfer special nuclear material (SNM) to obtain a license pursuant to the requirements in 10 CFR part 70. The licensing requirements in 10 CFR part 70 apply to persons in Agreement States possessing

greater than critical mass quantities as defined in 10 CFR 150.11.

Pursuant to 10 CFR 70.17(a), "the Commission may * * * grant such exemptions from the requirements of the regulations in this part as it determines are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest."

By previous Orders, Envirocare of Utah, LLC was exempted from certain NRC regulations and was permitted, under specified conditions, to possess waste containing SNM in greater quantities than specified in 10 CFR part 150, at its LLW disposal facility located in Clive, Utah, without obtaining an NRC license pursuant to 10 CFR part 70. The first such Order was published in the **Federal Register** on May 21, 1999 (64 FR 27826). The most recent revision to this Order was published in the **Federal Register** on August 1, 2005 (70 FR 44123).

The modified Order set forth below reflects the change in company name from Envirocare of Utah, LLC to EnergySolutions, LLC. No other substantive changes to the August 1, 2005 Order have been made. The exemption conditions would be revised as follows.

III. Modified Order

1. For waste with no more than 20 weight percent of materials listed in Condition 2, concentrations of SNM in individual waste containers must not exceed the following values at time of receipt:

TABLE A

SNM Nuclide	Maximum SNM concentration in waste containing the described materials (g SNM/g waste)	
	No materials listed in Condition 2	Maximum of 20 weight percent of materials listed in Condition 2 and no more than 1 weight percent of beryllium
U-235	6.2E-4	5.4E-4
U-235 (>50%) ^a .		
U-235 (=50%)	6.9E-4	6.1E-4
U-235 (=20%)	8.3E-4	7.4E-4
U-235 (=10%)	9.9E-4	8.8E-4
U-235 (=5%)	1.0E-3	9.6E-4
U-235 (=3%)	1.3E-3	1.1E-3
U-235 (=2%)	1.7E-3	1.5E-3
U-235 (=1.5%).	2.3E-3	2.1E-3

TABLE A—Continued

SNM Nuclide	Maximum SNM concentration in waste containing the described materials (g SNM/g waste)	
	No materials listed in Condition 2	Maximum of 20 weight percent of materials listed in Condition 2 and no more than 1 weight percent of beryllium
U-235	2.8E-3	2.5E-3
U-235 (=1.35%).		
U-235 (=1.2%).	3.5E-3	3.2E-3
U-235 (=1.1%).	4.5E-3	4.2E-3
U-235 (=1.05%).	5.0E-3	4.8E-3
U-233	4.7E-4	4.3E-4
Pu-239	2.8E-4	2.6E-4
Pu-241	2.2E-4	1.9E-4

^a Percentage value refers to weight percent enrichment in U-235. For enrichments that fall between identified values in the table, the higher value is the applicable value (e.g., for an enrichment of 14 weight percent U-235, the applicable concentration limit is that for 20 weight percent U-235).

For waste with more than 20 weight percent of materials listed in Condition 2, concentrations of SNM in individual waste containers must not exceed the following values at time of receipt:

TABLE B

Radionuclide	Maximum SNM concentration in waste containing the described materials (g SNM/g waste)	
	Unlimited quantities of materials listed in Condition 2	Unlimited quantities of materials listed in Conditions 2 and 3
U-235 (>50%)	3.4E-4	1.2E-5
U-235	N/A	3.1E-4 ^a
U-233	2.9E-4	1.1E-5
Pu-239	1.7E-4	7.5E-6
Pu-241	1.3E-4	5.3E-6

^a For uranium at any enrichment with sum of materials listed in Condition 2 and beryllium not exceeding 45 percent of the weight of the waste.

Plutonium isotopes other than Pu-239 and Pu-241 do not need to be considered in demonstrating compliance with this condition. When mixtures of these SNM isotopes are present in the waste, the sum-of-the-fractions rule, as illustrated below, should be used.

$$\frac{\text{U-233 conc}}{\text{U-233 limit}} + \frac{100\text{wt}\%\text{U-235 conc}}{100\text{wt}\%\text{U-235 limit}} + \frac{10\text{wt}\%\text{U-235 conc}}{10\text{wt}\%\text{U-235 limit}} + \frac{\text{Pu-239 conc}}{\text{Pu-239 limit}} + \frac{\text{Pu-241 conc}}{\text{Pu-241 limit}} \leq 1$$

The concentration values in Condition 1 are operational values to ensure criticality safety. Where the values in Condition 1 exceed concentration values in the corresponding conditions of the State of Utah Radioactive Material License (RML), the concentration values in the RML, which are averaged over the container, may not be exceeded. Higher concentration values are included in Condition 1 to be used in establishing the maximum mass of SNM for non-homogeneous solid waste and liquid waste.

The measurement uncertainty values should be no more than 15 percent of the concentration limit, and represent the maximum one-sigma uncertainty associated with the measurement of the concentration of the particular radionuclide. When determining the applicable U-235 concentration limit for a specific enrichment percentage, the analytical uncertainty shall be added to the result (e.g., for a measurement value of U-235 enrichment percentage of 1.1+/-0.2, the U-235 concentration limit corresponding to an enrichment percent of 1.35 shall be used). This shall be applied to analytical methods employed by the generator prior to receipt and by EnergySolutions upon receipt.

The SNM must be homogeneously distributed throughout the waste. If the SNM is not homogeneously distributed, then the limiting concentrations must not be exceeded on average in any contiguous mass of 600 kilograms of waste.

Liquid waste may be stabilized provided the SNM concentration does not exceed the SNM concentration limits in Condition 1. For containers of liquid waste with more than 600 kilograms of waste, the total mass of SNM shall not exceed the SNM concentration in Condition 1 times 600 kilograms of waste. Waste containing free liquids and solids shall be mixed prior to treatment. Any solids shall be maintained in a suspended state during transfer and treatment.

2. Except as allowed by Tables A and B in Condition 1, waste must not contain "pure forms" of chemicals containing carbon, fluorine, magnesium, or bismuth in bulk quantities (e.g., a pallet of drums, a B-25 box). By "pure forms," it is meant that mixtures of the above elements, such as magnesium oxide, magnesium carbonate, magnesium fluoride, bismuth oxide,

etc., do not contain other elements. These chemicals would be added to the waste stream during processing, such as at fuel facilities or treatment such as at mixed waste treatment facilities. The presence of the above materials will be determined by the generator, based on process knowledge or testing.

3. Except as allowed by Tables A and B in Condition 1, waste accepted must not contain total quantities of beryllium, hydrogenous material enriched in deuterium, or graphite above one tenth of one percent of the total weight of the waste. The presence of the above materials will be determined by the generator, based on process knowledge, physical observations, or testing.

4. Waste packages must not contain highly water soluble forms of uranium greater than 350 grams of uranium-235 or 200 grams of uranium-233. The sum of the fractions rule will apply for mixtures of U-233 and U-235. Highly soluble forms of uranium include, but are not limited to: uranium sulfate, uranyl acetate, uranyl chloride, uranyl formate, uranyl fluoride, uranyl nitrate, uranyl potassium carbonate, and uranyl sulfate. The presence of the above materials will be determined by the generator, based on process knowledge or testing.

5. Waste processing of waste containing SNM will be limited to stabilization (mixing waste with reagents), micro-encapsulation and macro-encapsulation using low-density and high-density polyethylene, macro-encapsulation with cement grout, spray-washing, organic destruction (CerOx process and Solvent Electron Technology process), and thermal desorption.

EnergySolutions shall confirm that the SNM concentration in the rinse water does not exceed the limits in Condition 1 following spray-washing, prior to further treatment. If the rinse water is evaporated, the evaporated product shall comply with the requirements in Condition 1. EnergySolutions shall perform sampling and analysis of the liquid effluent collection system at a frequency of one sample per 300 gallons or when the system reaches capacity, whichever is less.

EnergySolutions shall track the SNM mass of waste treated using the CerOx process. When the total concentration of SNM is 85 percent of the sum of the fraction rule in Condition 1, EnergySolutions shall confirm the SNM

concentration in the phase reactor tank and replace the solutions. The 10 percent enriched limit shall be used for uranium-235. The contents of the phase reactor tank should be solidified prior to disposal.

When waste is processed using the thermal desorption process and the Solvent Electron Technology process, EnergySolutions shall confirm the SNM concentration following processing and prior to returning the waste to temporary storage.

6. EnergySolutions shall require generators to provide the following information for each waste stream:

Pre-shipment

Waste Description. The description must detail how the waste was generated, list the physical forms in the waste, and identify uranium chemical composition.

Waste Characterization Summary. The data must include a general description of how the waste was characterized (including the volumetric extent of the waste, and the number, location, type, and results of any analytical testing), the range of SNM concentrations, and the analytical results with error values used to develop the concentration ranges.

Uniformity Description. A description of the process by which the waste was generated showing that the spatial distribution of SNM must be uniform, or other information supporting spatial distribution.

Manifest Concentration. The generator must describe the methods to be used to determine the concentrations on the manifests. These methods could include direct measurement and the use of scaling factors. The generator must describe the uncertainty associated with sampling and testing used to obtain the manifest concentrations.

EnergySolutions shall review the above information and, if adequate, approve in writing this pre-shipment waste characterization and assurance plan before permitting the shipment of a waste stream. This will include statements that EnergySolutions has a written copy of all the information required above, that the characterization information is adequate and consistent with the waste description, and that the information is sufficient to demonstrate compliance with Conditions 1 through 4. Where generator process knowledge is used to demonstrate compliance with Conditions 1, 2, 3, or 4, EnergySolutions

shall review this information and determine when testing is required to provide additional information in assuring compliance with the Conditions. EnergySolutions shall retain this information as required by the State of Utah to permit independent review.

At Receipt

EnergySolutions shall require generators of SNM waste to provide a written certification with each waste manifest that states that the SNM concentrations reported on the manifest do not exceed the limits in Condition 1, that the measurement uncertainty does not exceed the uncertainty value in Condition 1, and that the waste meets Conditions 2 through 4.

7. Sampling and radiological testing of waste containing SNM must be performed in accordance with the following: One sample for each of the first ten shipments of a waste stream; or one sample for each of the first 100 cubic yards of waste up to 1,000 cubic yards of a waste stream, and one sample for each additional 500 cubic yards of waste following the first ten shipments or following the first 1,000 cubic yards of a waste stream. Sampling and radiological testing of debris waste containing SNM (that is exempted from sampling by the State of Utah) can be eliminated if the SNM concentration is lower than one tenth of the limits in Condition 1. EnergySolutions shall verify the percent enrichment by appropriate analytical methods. The percent enrichment determination shall be made by taking into account the most conservative values based on the measurement uncertainties for the analytical methods chosen.

8. EnergySolutions shall notify the NRC, Region IV office within 24 hours if any of the above conditions are not met, including if a batch during a treatment process exceeds the SNM concentrations of Condition 1. A written notification of the event must be provided within 7 days.

9. EnergySolutions shall obtain NRC approval prior to changing any activities associated with the above conditions.

Based on the staff's evaluation, the Commission has determined, pursuant to 10 CFR 70.17(a), that the exemption of above activities at the EnergySolutions disposal facility is authorized by law, and will not endanger life or property or the common defense and security and is otherwise in the public interest. Accordingly, by this Order, the Commission grants an exemption subject to the stated conditions. The exemption will become effective after the State of Utah has incorporated the above conditions into

EnergySolutions' radioactive materials license. In addition, at that time, the Order published on August 1, 2005 will no longer be effective.

Pursuant to the requirements in 10 CFR part 51, the Commission has determined that an Environmental Assessment is not required as the proposed action (change in company name) is administrative and therefore falls within the categorical exclusion provisions of 10 CFR 51.22(c)(11).

IV. Availability of Documents

Documents related to this action, including the application for amendment and supporting documentation, will be available electronically at the NRC's Electronic Reading Room at <http://www.NRC.gov/reading-rm/adams.html>. From this site, you can access the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. The ADAMS accession number for the document related to this notice is: EnergySolutions' March 3, 2006 request (ML060740549).

If you do not have access to ADAMS or if there are problems in accessing the documents located in ADAMS, contact the NRC's Public Document Room (PDR) Reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr@nrc.gov.

These documents may also be viewed electronically on the public computers located at the NRC's PDR, O 1 F21, One White Flint North, 11555 Rockville Pike, Rockville, MD 20852. The PDR reproduction contractor will copy documents for a fee.

Dated at Rockville, Maryland this 30th day of May, 2006.

For the Nuclear Regulatory Commission.

Jack R. Strosnider,

Director, Office of Nuclear Material Safety and Safeguards.

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NUCLEAR REGULATORY COMMISSION

[Docket No. 50-293-LR; ASLBP No. 06-848-02-LR]

Entergy Nuclear Operations, Inc.; Establishment of Atomic Safety and Licensing Board

Pursuant to delegation by the Commission dated December 29, 1972, published in the **Federal Register**, 37 FR 28,710 (1972), and the Commission's regulations, *see* 10 CFR 2.104, 2.300, 2.303, 2.309, 2.311, 2.318, and 2.321, notice is hereby given that an Atomic

Safety and Licensing Board is being established to preside over the following proceeding: Entergy Nuclear Operations, Inc. (Pilgrim Nuclear Power Station).

A Licensing Board is being established pursuant to a March 21, 2006 notice of opportunity for hearing (71 FR 6101 (March 27, 2006)) to consider the respective May 25 and May 26, 2006 requests of Pilgrim Watch and the Massachusetts Attorney General challenging the January 25, 2006 application for renewal of Operating License No. DPR-35, which authorizes Entergy Nuclear Operations, Inc. (Entergy), to operate the Pilgrim Nuclear Power Station at 2028 megawatts (Mwt) thermal. The Entergy Nuclear Operations, Inc. renewal application seeks to extend the current operating license for the facility, which expires on June 8, 2012, for an additional twenty years.

The Board is comprised of the following administrative judges:

Ann Marshall Young, Chair, Atomic Safety and Licensing Board Panel, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

Richard F. Cole, Atomic Safety and Licensing Board Panel, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

Nicholas G. Trikouros, Atomic Safety and Licensing Board Panel, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

All correspondence, documents, and other materials shall be filed with the administrative judges in accordance with 10 CFR 2.302.

Issued at Rockville, Maryland, this 7th day of June 2006.

G. Paul Bollwerk, III,

Chief Administrative Judge, Atomic Safety and Licensing Board Panel.

[FR Doc. E6-9180 Filed 6-12-06; 8:45 am]

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SECURITIES AND EXCHANGE COMMISSION

Submission for OMB Review; Comment Request

Upon Written Request, Copies Available From: Securities and Exchange Commission, Office of Filings and Information Services, Washington, DC 20549.

Extension:

Regulation S-P; OMB Control No. 3235-0537; and SEC File No. 270-480.

Notice is hereby given that pursuant to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seq.*), the Securities