



Program of Field Office: Sandia Site Office

Project Title: CINT Integration Laboratories: PH3 Operations

Location: Sandia Science and Technology Park

Proposed Action or Project Description:

American Recovery and Reinvestment Act:

Sandia National Laboratories/New Mexico (SNL/NM) proposes to operate an Atomic-Precision Fabrication Tool in the Center for Integrated Nanotechnologies (CINT). Installation and hydrogen-gas operation of the Atomic-Precision Fabrication Tool, to be located in the CINT Integration Lab Class 1.000 Cleanroom, Room 1512 (Flex Bay Lab), was analyzed previously. The current proposal involves use of the tool for a process using phosphine gas. Phosphine would be delivered via a Safe Delivery Source (SDS) subatmospheric lecture-sized bottle/cylinder (commonly used at universities throughout the U.S.), housed in a built-in and exhausted hazardous gas cabinet within the tool.

Facility Operations

Facility Operations	Site Characterization, Monitoring and General Research
B1.1 - Rate increases < inflation (not power marketing)	 B3.1 - Site characterization/environmental monitoring B3.2 - Aviation activities for survey/monitoring/security B3.3 - Research related to conservation of fish and wildlife B3.4 - Transport packaging tests for radioactive/hazardous material B3.5 - Tank car tests B3.6 - Siting/construction/operation/decomm of facilities for R&D, conventional laboratory operations and pilot projects B3.7 - New infill exploratory, experimental oil/gas/geothermal construction/operation B3.8 - Outdoor ecological/environmental research in small area B3.9 - Certain CCT demonstration activities, emissions unchanged B3.11 - Outdoor tests, experiments on materials and equipment components, no source, special nuclear, or by-product materials B3.12 - Siting/construction/operation/decommission of microbiological or biomedical facilities B3.13 - Magnetic fusion experiments, no tritium fuel use Conservation, Fossil, and Renewable Energy Activities B5.1 - Actions to conserve energy, no indoor air quality degradation
	 B5.6 - Oil spill cleanup operations Environmental Restoration/Waste Management Activities B6.1 - Cleanup actions: small-scale, short-term B6.2 - Siting/construction/operation of temporary pilot-scale waste collection/treatment/stabilization/containment facilities B6.3 - Environmental control system improvements in existing structures, recycle/release/disposal within permitted facility B6.4 - Packaged hazardous waste storage facility const/oper/decom B6.5 - Const/oper/decom of on-site facility for characterizing/sorting or over packing previously packaged waste (not high-level or spent nuclear fuel; no unpacking) B6.6 - Modification of facility for storing, packaging, or repacking waste (not high-level or spent nuclear fuel) B6.7 - Granting/denying petitions for allocation of commercial disposal capacity B6.8 - Minor operational changes to minimize waste or reuse materials B6.9 - Small-scale, temporary measures to reduce contaminated GW migration B6.10 - Siting/construction/operation/decommissioning of small upgraded or replacement waste storage facilities

*-For a Detailed Listing of DOE's Appendix A/B Subpart D of 1021: Click Here

This action would not (1) violate applicable ES&H requirements, (2) require siting of waste Treatment, Storage, Disposal or Recovery facilities, (3) disturb hazardous substances (excluding naturally occurring petroleum and natural gas), thus producing uncontrolled or unpermitted releases, and (4) adversely affect environmentally sensitive resources. Furthermore, this action (1) would not present any extraordinary circumstances such that the action might have a significant impact upon the human environment, (2) is not connected to other actions with potentially significant impacts, and (3) is not related to other actions with cumulatively significant impacts. Therefore, the proposed action may be categorically excluded from further review.

NEPA Compliance Officer or Program Officer: LACY, SUSAN DOYLENE

08-16-2011 NNSA-B-11-0247

Comments: