



Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

JUN 09 2017

Mr. John Kieling, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Notification of Planned Change to the Permitted Facility Regarding the
Construction of a New Filter Building, Hazardous Waste Facility Permit,
Number: NM4890139088-TSDF

Dear Mr. Kieling:

The purpose of this letter is to provide notification to the New Mexico Environmental Department (NMED) of a planned change to the permitted facility in accordance with Permit Part 1, Section 1.7.11. (20.4.1.900 New Mexico Administrative Code incorporating Title 40 of the Code of Federal Regulations §270.30(I)). The U.S. Department of Energy (DOE) and Nuclear Waste Partnership LLC (NWP), collectively referred to as the Permittees, intend to upgrade the underground ventilation system (UVS) by constructing a new High Efficiency Particulate Air (HEPA) filter building. The UVS is broadly described in Permit Attachment A2, Section A2-2a(3).

The new HEPA filter building will be located southeast of the existing filter building, as shown on the attached conceptual drawing (Figure 1). This addition will require an expansion to the Property Protection Area and a modification to the Waste Isolation Pilot Plant facility fence line. Additionally, the new exhaust stack will result in an alternate effluent discharge point that will be higher than the current exhaust stack discharge point.

Plans for the new filter building include six exhaust fans and 22 HEPA filter banks and associated ductwork to provide an increased amount of air to the underground. The primary function of the new filter building will be to remove airborne radioactive particulate from the exhaust air through HEPA filtration before the air is released to the environment. The new filter building will supply additional air to the underground in order to achieve up to 540,000 actual cubic feet per minute (acfm) in filtration mode. A conceptual drawing depicting the general location of the new filter building is attached for information (Figure 2).

The Permittees anticipate that the construction of the new filter building will be completed in calendar year 2020. Upon completion of the construction, the Permittees will provide the NMED a letter with a New Mexico registered professional engineer's certification statement that the facility has been constructed in compliance with the Permit and provide the NMED the opportunity to inspect the alteration pursuant to the Permit Part 1, Section 1.7.11.

Mr. Kieling

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The Permittees anticipate submitting a Permit Modification Request to revise descriptive text to address changes to the UVS.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Mr. George T. Basabilvazo at (575) 234-7488.

 Sincerely,

Signature on file

Todd Shrader, Manager
Carlsbad Field Office

Philip J. Breidenbach, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure

R. Maestas, NMED * ED

D. Biswell, NMED ED

CBFO M&RC

*ED denotes electronic distribution

Enclosure
New Filter Building
(Conceptual Drawings Only)

8

7

6

5

4

3

2

416-C-003-W1

CONCEPTUAL DRAWING ONLY
NOT FOR CONSTRUCTION

WASTE
ING BUILDING

STORMWATER
DETENTION
POND #2

STORMWATER
RETENTION
POND #4

SECURITY ROAD

PLANT ROAD

SALT REDUCTION
BUILDING

CONDENSATE
EVAPORATION POND

FILTER
BUILDING

EXISTING FENCE

BERM ROAD CONNECTOR

EXISTING BERM

EXISTING ROAD

PROPERTY
FENCE

RELOCATED BERM

EXISTING ROAD

SECURITY ROAD

BERM ROAD

SECURITY ROAD CONNECTOR

SECURITY ROAD
CONNECTOR

LEGENDS:

- △ CONTROL POINT CP/ BM
- 3410' MAJOR CONTOURS
- 3400' MINOR CONTOURS
- OVERHEAD ELECTRICAL WITH POLES
- - - - - FENCELINE
- RAILROAD TRACKS
- BORE HOLE LOCATION
- UTILITY BOX
- POTABLE WATER TIE IN LOCATION
- SANITARY WASTEWATER FORCE MAIN TIE IN LOCATION
- WATER LINE 2" HDPE, OD = 2.375"
- SANITARY FORCE MAIN 2" HDPE, OD = 2.375"
- STORM DRAINAGE LINE
- CATCH BASIN
- STORM DRAINAGE MANHOLE
- UNDERGROUND COMMUNICATIONS & SECURITY
- UNDERGROUND FIBER OPTIC HAND HOLE
- UFO — UNDERGROUND FIBER OPTIC
- ELECTRICAL DUCT
- — — — — GROUND LOOP
- ⊗ LIGHT POLE
- SHEET FLOW
- DIRECTION OF FLOW

PLAN
SCALE: 1"=80'

SCALE: 1"=80'

0 80 160 FEET

INDEX CODE NUMBER				
SYSTEM	WBE	DWG TYPE	CL	VENDOR
XXXX	XXX	XXXXX	XX	XXX

THIS DRAWING IS UP-TO-DATE AND
LATEST REVISION VERIFIED WITH THE
FOLLOWING OUTSTANDING ENGINEERING
CHANGE ORDERS:

SIGNATURE AND DATE:
THIS DRAWING OBSOLETE FIVE DAYS FROM
THIS DATE.

ISSUED FOR BOOK DESIGN REVIEW	10/10/18	10/10/18	10/10/18
THIS DRAWING CREATED BY ENGINEERING CHANGE ORDER (ECO):			
DFTR:	CARLSBAD FIELD OFFICE		
COG:	NWP		
CM:	Nuclear Waste Partnership LLC An AECOM-led Partnership with BWX and AREVA Waste Isolation Pilot Plant Carlsbad, New Mexico		
SITE OVERALL PLAN			
SCALE: 1" = 80'	SIZE SYS	DWG NO	REV
INTERPRET DWG PER ANSI Y14	D	XXXX 416-C-003-W1	A
THIS DRAWING TAKEN FROM: N/A			
VENDOR: N/A			

CONCEPTUAL DRAWING ONLY
NOT FOR CONSTRUCTION

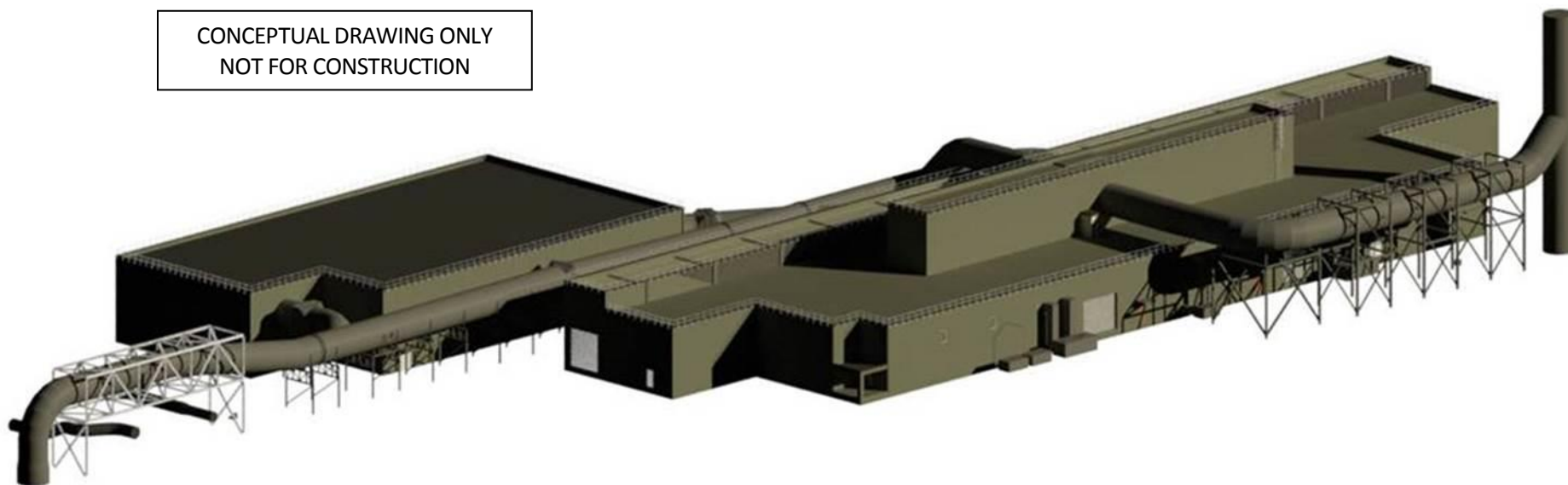


Figure 2 – New Filter Building