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**EVALUATION OF STRUCTURAL STABILITY OF
THE K-65 SILOS AT FERNALD NEPA DOC. 278**

10/30/89

DOE/DOE

NEPA DOC. NO. 278

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FMPC NEPA DOCUMENTATION - CATEGORICAL EXCLUSION		COGNIZANT PROJECT ENGINEER:	EXT.:
		P. A. Shanks	6531
PROJECT/PROGRAM TITLE: Evaluation of Structural Stability of the K-65 Silos at Fernald Code: 5091/WBS:191		PROJECT LOCATION:	Silo 4
		PROJECT COST:	
PROJECT/PROGRAM NUMBER:	NEPA DOCUMENT NUMBER:	CONSTRUCTION START DATE:	October 23, 1989
	278	NEPA PREPARATION DATE:	
DOE BUDGET NUMBER:		NEPA SUBMITTAL DATE TO DOE:	OCT 30 1989
RBA 04			

CATEGORICAL EXCLUSION

This project has been reviewed pursuant to DOE regulations and WMCO directives, and the project is deemed to be of a nature described as Categorically Excluded under current DOE guidelines. Additional NEPA documentation is not required for this project.

The basis for the Categorical Exclusion is as follows:

Section D of the DOE guidelines for compliance with NEPA (52FR47662) lists typical classes of DOE actions that can be categorically excluded:

General plant projects such as road and parking area resurfacing, modifications to heating-ventilating-air conditioning systems, minor alterations of existing buildings, and other similar projects where: (1) The projects are located within previously developed areas and will not affect environmentally sensitive areas such as archeological sites, critical habitats, floodplains, and wetlands and (2) the projects are not part of a proposed action that is or may be the subject of an EA or EIS.

COGNIZANT PROJECT ENGINEER:	<i>Patrick Shanks</i>	DATE:	10/12/89
WMCO NEPA COORDINATOR:	<i>Edward Shoness</i>	DATE:	10/19/89
WMCO NEPA MANAGER:	<i>Mike [unclear] for U.S. England</i>	DATE:	10/27/89
DOE/FMPC OFFICER:	<i>Ray [unclear]</i>	DATE:	11/16/89

RE-EVALUATION OF THE STRUCTURAL STABILITY OF THE
K-65 SILOS AND SILOS 3 AND 4 BY BECHTEL NATIONAL, INC.

DOE has hired Bechtel National, Inc. to complete a re-evaluation of the structural stability of the K-65 Silos and Silos 3 and 4. The re-evaluation was deemed necessary as a result of the Tiger Team evaluation. No physical work will be done on the K-65 Silos and Silo 3. Bechtel National, Inc. will study the previous data obtained on these silos by Camargo Associates, Ltd. in 1985. For Silo 4, Bechtel National, Inc. has proposed as part of the study to obtain core samples from the dome, wall, and bottom of the silo. The concrete cores will be used to perform compressive and tensile tests and petrographic analysis. A petrographic analysis will also be performed on a sample of the gunite obtained from the outside of the silo wall.

The methods used to obtain the silo samples are normal construction techniques. The core samples of the dome will be taken from the exterior of the silo and the cores of the walls and the bottom will be taken from the interior. The core holes will be repaired using a fast setting concrete repair compound. All four manways of Silo 4 will be opened, its internal atmosphere analyzed, and ventilated, as required by WMC0 personnel.

WMC0 is planning to pump out the water presently contained in the silo. Samples of the water will be submitted to the FMPC analytical lab for analysis. The water will be pumped to the biodenitrification surge lagoon. The results of the analysis shows that the water is in specifications to the surge lagoon.