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**K-65 SILO CLOSED CIRCUIT TELEVISION  
(CCTV) MONITORING SYSTEM NEPA DOC. 19**

**05/19/87**

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<b>FMPC</b>		COGNIZANT PROJECT ENGINEER <b>A. C. Snider</b>
NEPA DOCUMENTATION		PROJECT LOCATION <b>Just Outside K-65 Fenced-In Area</b>
PROJECT/PROGRAM TITLE <b>GPP-GE (FA-166)</b> <b>K-65 SILO CLOSED CIRCUIT TELEVISION (CCTV) MONITORING SYSTEM</b>		PROJECT COST <b>\$200,000</b>
PROJECT/PROGRAM NUMBER <b>34-87101</b>	NEPA DOCUMENT NUMBER <b>19</b>	CONSTRUCTION START DATE <b>May 19, 1987</b>
		NEPA SUBMITTAL DATE <b>AUG 15 1987</b>

**PROJECT EXECUTIVE SUMMARY**

This project will consist of installing a remote 24 hour surveillance system for the K-65 silos that will be monitored continuously at the Main Guard House. Work near the K-65 site will include the installation of an electrical supply station, ten 1000 watt floodlights, a closed circuit television system (which includes two cameras), and microwave transmitting and receiving dishes. In addition, two 70 ft. self supporting towers and two 70 ft. utility poles will be erected, and the existing power and communication utilities between utility poles #109 and #110 will be rerouted. Note, no work of any kind will be performed inside the K-65 fenced-in area! Work at the Main Guard House will include the installation of a monitoring system, and microwave transmitting and receiving dishes.

**PROJECT JUSTIFICATION**

The project will not encounter, handle, or dispose of radioactive, toxic material. The operation of the project will not discharge or emission to the environment and/or plant. The project will have no negative environmental impacts. Cumulative impacts of this project have been assessed to be positive overall. Other options have not been precluded by this action.

EXISTING NEPA DOCUMENTATION/DATE SUBMITTED				DOCUMENT DISPOSITION	
NONE	N.C.	ADM.	E.A.	APPROVED	DISAPPROVED
X				CE	_____
THIS NEPA DOCUMENT				NC	_____
N.C.	ADM.	E.A.	E.I.S.	ADM	_____
AUG 15 1987				EA	_____
DOE APPROVAL REQUESTED	COGNIZANT PROJECT ENGINEER/DATE <i>Anthony C. Snider (8-14-87)</i>			EIS	_____
	SITE NEPA COORDINATOR/DATE <i>William J. [unclear] (8-14-87)</i>			FMPC WILL NEED TO PREPARE	
	DOE/FMPC	X X		NO ADDITIONAL	_____
	DOE/ORO			ADM	_____
DOE/HQ				EA	_____
SITE NEPA MANAGER/DATE <i>[unclear] 8-14-87</i>			EIS	_____	
SITE DOE OFFICER/DATE <i>Juan O. [unclear] 8/14/87</i>					
ADDITIONAL DOE APPROVAL (NEEDED) DATE					

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**1.0 PURPOSE AND NEED**

A structural evaluation of the K-65 silos was conducted by Camargo Associates and submitted to WMCO on February 25, 1986. The evaluation stated that the structural load capacity of the center portion on each of the two domes is questionable for any additional live load. Because of the results of the evaluation and the material content in the silos, both WMCO Management and the Department of Energy desire to have the silo area continuously observed. Due to the remoteness of the K-65 site, it will be difficult for the Security Department to constantly observe the silos.

**2.0 PROPOSED ACTION**

A remote 24-hour surveillance system is to be installed at the K-65 site just outside the K-65 fenced-in area. The system is to utilize a CCTV Monitoring System that will enable the Security Department to monitor the silo area. Microwave signals will be sent between the surveillance station located at the K-65 site and the monitoring equipment located in the Main Guard House.

**3.0 ALTERNATIVES CONSIDERED**

**3.1 No Action**

If it were determined that no action is to be taken, then the silos will remain unobserved for long periods of time. Typical reaction times to structural failures or breaches of the silos will remain slow; repair and evacuation readiness will remain inadequate.

**3.2 Dispose Content**

An alternative action is to repair, replace, or demolish the silos after removing and properly disposing the silos' contents. However, DOE and WMCO are currently performing studies to determine what should be done with the silos and the silos' content. Until a solution is agreed upon, this alternative cannot be taken.

**3.3 Proposed Action**

A remote 24-hour surveillance system is to be installed at the K-65 site just outside the K-65 fenced-in area. The system is to utilize two self supporting towers and a CCTV Monitoring System that will enable the Security Department to monitor the silo area

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during both day and night viewing. Microwave signals will be sent between the surveillance equipment located at the K-65 site and the monitoring equipment located in the Main Guard House. This action will not increase the structural reliability of either silo; however, it will increase the ability for WMCO and DOE to respond to any silo structural or security crises.

**4.0 POTENTIAL ENVIRONMENTAL IMPACTS**

The construction and operation of the proposed project will be performed completely outside of the K-65 silo fenced-in area and will not effect the silos or the silos' content in any way. Also, the construction and operation of this project will not encounter any of the materials that are identified on the attached NEPA Checklist.

Special Note: The self supporting towers that are to be erected during the construction phase of this project will not endanger the silos. The towers will be designed and positioned so that even if they collapse or are sabotaged, they will fall short of the silos. No damage to the silos is foreseen from either tower.

The construction of the proposed project may involve discharge to systems identified to low level waste disposal in the form of construction rubble. Over the course of the three month construction period, approximately:

- 20 cubic yards of earth will be excavated (this earth has been determined by WMCO's Environmental Compliance Group to be noncontaminated and will be placed north of Third Street.
- 22 cubic feet of cardboard and paper construction waste will be compacted and placed in 55 gallon drums.
- 100 pounds of conduit and metal will be placed in wooden boxes or 55 gallon drums.
- 100 pounds of lumber (used in form work) will be placed north of Third Street.

Rainwater collected in any of the project's excavations will be pumped into 55 gallon drums.

Between one to six workmen will be needed to perform the construction of this project.

The operation of the proposed project will not involve discharges to any of the systems identified on the NEPA Checklist. There will be no uncontrolled emissions, discharges, or spills possible during the construction phase or operation phase of this project.

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5.0 CONCLUSION

Based on the information provided in the preceding paragraphs and the attached NEPA Checklist, it is concluded that this project has no negative environmental impact.

The closed circuit television monitoring system represents an action which may be taken during the course of an ongoing EIS, as defined by the Council on Environmental Quality (40 CFR 1506.1). As such, this action:

1. has no net adverse environmental impact. A small amount of construction rubble will be generated during this project, which has been assessed to be uncontaminated. This minor negative impact is largely offset by the positive impact of this project on plant security and silo emergency preparedness. Thus, liabilities engendered in the nature of construction rubble offset by potential improvements in emergency response time and site security.
2. does not preclude the choice of reasonable alternatives to the action being undertaken. The new K-65 surveillance system can be dismantled and removed when the system is no longer required.

6.0 CUMULATIVE IMPACTS

The cumulative impacts of the new K-65 closed circuit television monitoring system have been assessed to be equivocal overall, and other reasonable alternatives are not precluded by this action.

**THIS DOCUMENT CONSTITUTES A MEMO-TO-FILE FOR THIS PROJECT.**

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1.0 Will any of the following be encountered, handled, stored, used, or disposed of during the construction of the proposed program or project?

Radioactive materials (identify)	Y	N X	U
Hazardous materials (identify)	Y	N X	U
Toxic materials (identify)	Y	N X	U
Mixed hazardous and radioactive materials (identify)	Y	N X	U
PCB's (identify source)	Y	N X	U
Asbestos (identify source)	Y	N X	U
Organic chemicals (identify)	Y	N X	U
Heavy metals (identify)	Y	N X	U

2.0 Will program activities involve discharges to any one of the following systems during the construction of the proposed project?

Low level waste disposal (describe)	Y	N	U X
Process waste stream	Y	N X	U
Sanitary waste stream	Y	N X	U
Storm sewer	Y	N X	U

3.0 Will any of the following be encountered, handled, stored, used, or disposed of during operation of, or following the proposed program changes?

Radioactive materials (identify)	Y	N X	U
Hazardous materials (identify)	Y	N X	U
Toxic materials (identify)	Y	N X	U
Mixed hazardous and radioactive materials (identify)	Y	N X	U
PCB's (identify source)	Y	N X	U

Asbestos (identify source)	Y	N X	U
Organic chemicals (identify)	Y	N X	U
Heavy metals (identify)	Y	N X	U

4.0 Will program activities involve discharges to any one of the following systems during operation of, or following the proposed program changes?

Low level waste disposal (describe)	Y	N X	U
Industrial waste stream	Y	N X	U
Sanitary waste stream	Y	N X	U
Storm sewer	Y	N X	U

5.0 Are uncontrolled emissions, discharges, or spills possible during:

The construction phase of this project?	Y	N X	U
The operational phase, upon completion of the project?	Y	N X	U

## 6.0 Will the project involve any of the following:

Need for aboveground storage during construction?	Y	N	U X
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Need for underground storage during construction?	Y	N X	U
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Need for aboveground storage during operations?	Y	N X	U
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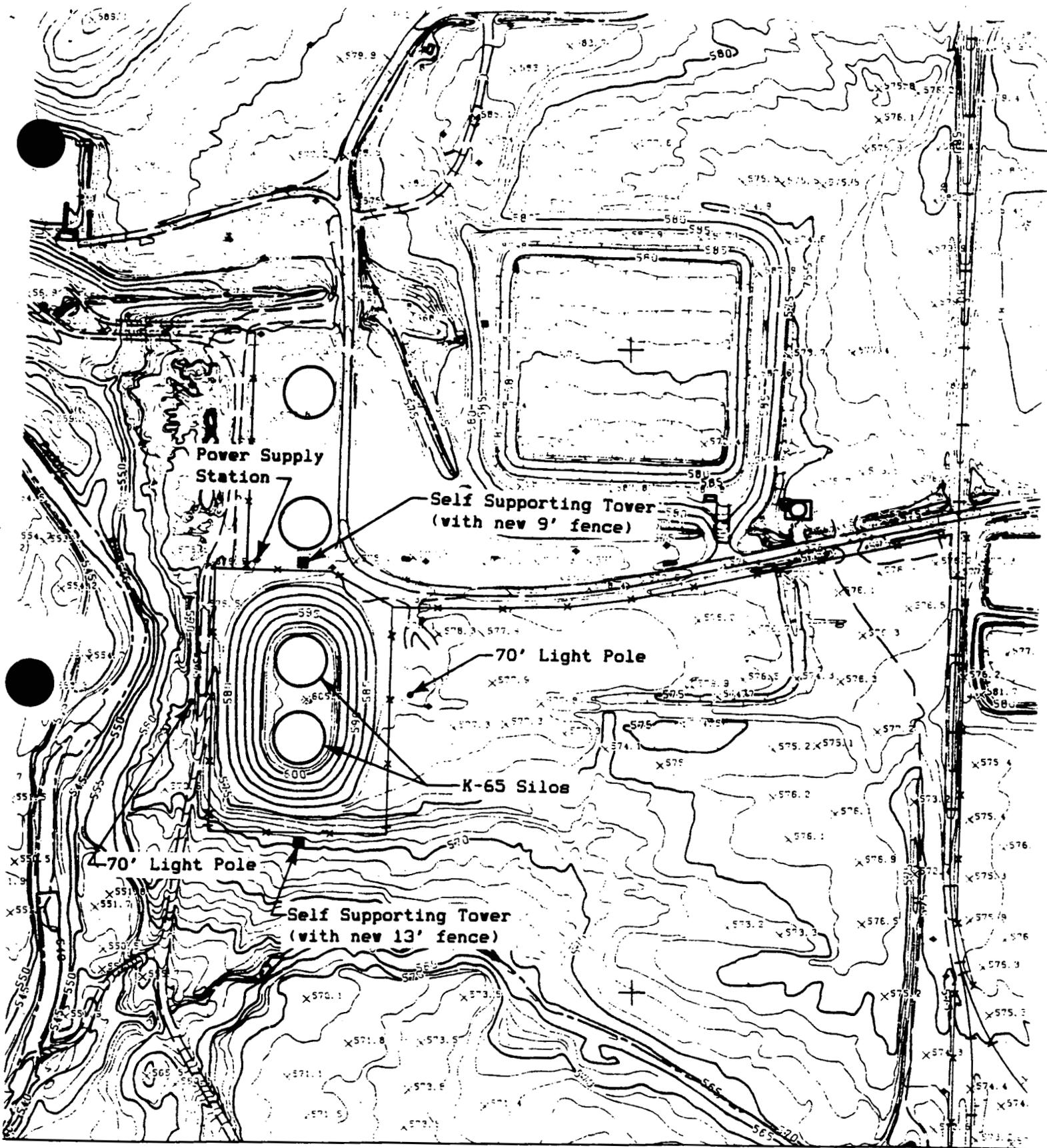
Need for underground storage during operations?	Y	N X	U
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7.0 Is the project located in close proximity to a natural stream or within the floodplain of a natural stream?	Y	N X	U
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Planned emissions or discharges planned during:

The construction phase of this project?	Y	N X	U
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The operational phase, upon completion of this project?	Y	N X	U
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K-65 Silo Closed Circuit Television  
 Monitoring System  
 (Fig. 1)