

MAY 2 1975

R. E. Cunningham, Assistant Director for Fuel Cycle

EVALUATION OF HYDROLOGIC ENGINEERING DESIGN - TAR 1329

PLANT NAME: East Gas Hills Mine

LICENSING STAGE: OL

DOCKET NUMBER: 40-293

RESPONSIBLE BRANCH: Technical Support Branch

REQUESTED COMPLETION DATE: April 25, 1975

REVIEW STATUS: Hydrologic Engineering Section (SAB) - Complete

Enclosed is a hydrologic engineering summary, prepared by T. L. Johnson, regarding the proposed tailings retention system at East Gas Hills Mine. Our review was based on supplemental hydrologic information and analyses provided by the applicant. We have concluded that the applicant's analyses and design bases using this new information are comparable to the criteria of Regulatory Guide 1.70.17. We would like to schedule a site visit as soon as possible to survey the hydrologic features of significance to verify our conclusions.

Original Signed by  
H. R. Denton

Harold R. Denton, Assistant Director  
for Site Safety  
Division of Technical Review  
Office of Nuclear Reactor Regulation

Enclosure:  
As Stated

cc: S. Smiley  
W. McDonald  
H. Lowenberg

DISTRIBUTION:  
DOCKET FILE  
NRR-RDG  
SAB-RDG

cc: w/enclosure  
R. Chitwood  
L. Rouse  
SS Branch Chiefs  
A. Kenneke  
J. Kendig  
T. Johnson  
L. White

9612200060 750502  
PDR ADOCK 040\*\*\*\*\*  
C PDR

OFFICE →	TR: SAB <i>1/2</i>	TR: SAB <i>1/2</i>	TR: SAB <i>1/2</i>	TR: AD/SS		
SURNAME →	TJohnson:km	LHillman	WGammill	HRDenton		
DATE →	5/ 2 /75	5/ 2 /75	5/ 2 /75	5/ 2 /75		

MEMORANDUM  
OF CALL

TO:

Mr. Rouse

☒ YOU WERE CALLED BY—

☐ YOU WERE VISITED BY—

Bob Beverly

(Union Carbide)

OF (Organization)

☐ PLEASE CALL —→

PHONE NO.  
CODE/EXT.

☐ WILL CALL AGAIN

☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL

☐ WISHES AN APPOINTMENT

MESSAGE

We estimate volume of Gashills  
tailing ponds to 6,930 ft. level  
to be 271,000 yds. This should last  
approximately 7 months at 40,000 tons  
per month. Believe we can install berm  
during winter months with no problem.

Bob Beverly  
303-245-3700

You can call if you have any questions.

RECEIVED BY

DATE

TIME

Minnie

May 7, 1975

1:49

STANDARD FORM 63

REVISED AUGUST 1967

GSA FPMR (41 CFR) 101-11.6

GPO : 1969-0-48-10-80341-1 833-330

63-108

HYDROLOGIC ENGINEERING SUMMARY  
EAST GAS HILLS MINE  
DOCKET NO. 40-293

Recent information supplied by the applicant presents the location of the proposed embankments, along with an analysis of erosion potential due to flooding. The tailings retention system has no direct drainage area. The only potential source of damage to the embankment would be due to erosion by floodwaters from East Canyon Creek which flows parallel to one portion of the embankment. The applicant has evaluated the effects of runoff from local Probable Maximum Precipitation. We have evaluated the applicant's analysis and design bases and conclude they are comparable to the criteria of Regulatory Guide 1.70.17.

We conclude that the embankment is located such that an erosion-type failure is precluded, based on the information presented by the applicant. We would like to schedule a visit to the proposed facility as soon as possible to inspect the hydrologic features of significance, and consider such a visit necessary to verify the conclusions contained herein.

U. S. ATOMIC ENERGY COMMISSION  
TECHNICAL ASSISTANCE REQUEST CONTROL FORM

PREPARED BY: H. R. Denton DATE PREPARED: 5 / 2 / 75

ACTION:

NEW ASSIGNMENT ☐ NEW INFORMATION ☐ CANCELLATION ☐ COMPLETION ☒

GENERAL DESCRIPTION/TITLE:

East Gas Hills Mill - Evaluation of Hydrology and Foundation Engineering

TYPE OF REQUEST:

TECH. ASSIST ☐ TOPICAL REPORT ☐ REG. GUIDE ☐ STANDARD ☐ OTHER ☐

REQUEST FROM: \_\_\_\_\_ DATE:    /    /   

REQUEST CONTACT: \_\_\_\_\_ ADDRESSED TO DDTR ☐ OTHER: \_\_\_\_\_

REQUESTING TARGET DATE:    /    /    DATE RECEIVED:    /    /   

ASSIGNED ASSISTANT DIRECTOR:

REACTOR SAFETY ☐ ENGINEERING ☐ CONTAINMENT SAFETY ☐ SITE SAFETY ☒  
RSB ☐ CPB ☐ EICB ☐ OSB ☐ MEB ☐ MTEB ☐ SEB ☐ APB ☐ ETSB ☐ CSB ☐ QAB ☐ AAB ☐ SAB ☒ RAB ☐  
CBB ☐ ESB ☐

ESTIMATED COMPLETION DATE:    /    /   

☐ RESPOND INDIVIDUALLY:

☐ ADDITIONAL INFORMATION REQUESTED

☐ COORDINATED RESPONSE BY: \_\_\_\_\_

REMARKS: Memo fm T. Johnson to R. E. Cunningham dtd 5/2/75

SYSTEM CONTROL DATA

Copies to:

1. Requestor R. Cunningham  
2. OPS W. McDonald  
3-8. Assigned A/D's H. R. Denton  
9-10. Deputy Director, TR F. Schroeder  
W. Gammill  
T. Johnson  
L. Rouse  
J. Kendig

FACILITY NAME(S)

DOCKET(S)

(1)	_____	050 - 00
(2)	_____	050 - 00
(3)	_____	050 - 00
(4)	_____	050 - 00
(5)	_____	0

TOPICAL REPORT REVIEW NUMBER: \_\_\_\_\_

ORB ACTIVITY NO.: \_\_\_\_\_

ORB ISSUE MILESTONE NO.: \_\_\_\_\_