

DEC 14 1973

40-3453

H. Lowenberg, Assistant Director for
Technical Support and Transportation
Directorate of Licensing

TECHNICAL ASSISTANCE REQUEST - ATLAS URANIUM MILL

Regarding the attached Technical Assistance Request, the
Site Analysis Branch of Technical Review has agreed to the
following:

Questions	12/24/73
Draft Discussion	2/20/74

Original Signed by
J. M. Hendrie

Joseph M. Hendrie, Deputy Director
for Technical Review
Directorate of Licensing

Attachment
(As Stated)

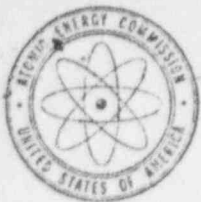
cc: L. S. Person
F. Schroeder
J. C. Panzarella
H. Denton

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Subject File
L-Rdg
JMH-Rdg (2)

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SURNAME ▶	JCPanzarella:mrs	JMHendrie				
DATE ▶	12/13/73	12/13/73				



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

DEC 10 1973

J. M. Hendrie, Deputy Director for
Technical Review

TECHNICAL ASSISTANCE REQUEST - Atlas Uranium Mill

Docket No. 40-3453

Licensing stage: NEPA Review

Project Leader: L. S. Person, Technical Support Branch

Requested completion date: Questions: Dec. 14, 1973

Completed draft discussion: Feb. 6, 1974

Description of request: Information is needed in order to prepare a
draft environmental statement for the
Atlas Uranium Mill.

Review Requested: Review and make an independent assessment of the
data and information presented by the applicant on the following
topics:

1. Hydrology

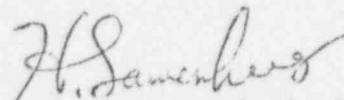
a. Surface water

1. Review and assess the adequacy and accuracy of the applicant's data on surface water flow, physical, chemical, biological, and hydrological characteristics, including seasonal variations and site flooding potential, particularly with respect to the tailings dam and purification ponds.
2. In the event that inadequacies are found, request additional information from the applicant; or provide from recognized sources, appropriately referenced.

3. When adequate information has been obtained, write a discussion entitled "Hydrology - Surface Water" that addresses flooding probability and extent, including the possible maximum flood flows in significant tributaries surrounding the site and what effect they might have on the tailings dam. Provide patterns and gradients of drainage in the site area. Give tabulations of data if different from those supplied by the applicant.

b. Ground water

1. Review and assess the adequacy and accuracy of applicant's data on ground water flow, physical, chemical, biological, and hydrological characteristics, including seasonal variations. Review and assess possible seepage of radionuclides from tailings pond to ground water. Flow and movement should consider soil permeability.
2. In the event inadequacies are found, request additional information from the applicant or provide from other recognized sources, appropriately referenced.
3. When adequate information has been found, write a discussion entitled "Hydrology - Ground Water" that addresses hydrologic, permeability and ion exchange characteristics at the tailings pond. Evaluate the extent to which plant releases could migrate in ground water below tailings and provide estimated soil permeation rates.



H. Lowenberg, Asst. Director for
Technical Support and Transportation
Directorate of Licensing

Enclosures:

1. E.R., Moab, Utah Facility
dtd 8/31/73
2. Supp. Rpt for Renewal of
Source Material, Atlas
Minerals dtd 8/31/73

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J. M. Hendrie, Deputy Director for
Technical Review

TECHNICAL ASSISTANCE REQUEST - Atlas Uranium Mill

Docket No. 40-3453

Licensing stage: NEPA Review

Project Leader: L. S. Person, Technical Support Branch

Requested completion date: Questions: Dec. 14, 1973

Completed draft discussion: Feb. 6, 1974

Description of request: Information is needed in order to prepare a
draft environmental statement for the
Atlas Uranium Mill.

Review Requested: Review and make an independent assessment of the
data and information presented by the applicant on the following
topics:

1. Hydrology

a. Surface water

1. Review and assess the adequacy and accuracy of the
applicant's data on surface water flow, physical,
chemical, biological, and hydrological characteristics,
including seasonal variations and site flooding potential,
particularly with respect to the tailings dam and
purification ponds.
2. In the event that inadequacies are found, request
additional information from the applicant; or provide
from recognized sources, appropriately referenced.

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3. When adequate information has been obtained, write a discussion entitled "Hydrology - Surface Water" that addresses flooding probability and extent, including the possible maximum flood flows in significant tributaries surrounding the site and what effect they might have on the tailings dam. Provide patterns and gradients of drainage in the site area. Give tabulations of data if different from those supplied by the applicant.

b. Ground water

1. Review and assess the adequacy and accuracy of applicant's data on ground water flow, physical, chemical, biological, and hydrological characteristics, including seasonal variations. Review and assess possible seepage of radionuclides from tailings pond to ground water. Flow and movement should consider soil permeability.
2. In the event inadequacies are found, request additional information from the applicant or provide from other recognized sources, appropriately referenced.
3. When adequate information has been found, write a discussion entitled "Hydrology - Ground Water" that addresses hydrologic, permeability and ion exchange characteristics at the tailings pond. Evaluate the extent to which plant releases could migrate in ground water below tailings and provide estimated soil permeation rates.

H. Lowenberg, Asst. Director for
Technical Support and Transportation
Directorate of Licensing

Enclosures:

1. E.R., Moab, Utah Facility
dtd 8/31/73
2. Supp. Rpt for Renewal of
Source Material, Atlas
Minerals dtd 8/31/73

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DEC 7 1973

G. W. Reinmuth, Chief
Technical Assistance Branch
Regulatory Operations

TECHNICAL ASSISTANCE REQUEST - Atlas Uranium Mill

Docket No. 40-3453

Licensing stage: NEPA Review

Project Leader: L. S. Person, Technical Support Branch

Requested completion date: Questions: Dec. 14, 1973

Completed draft discussion: Feb. 6, 1974

Description of request: Please provide the services of
Mr. Leon L. Beratan for the purpose of
supplying information to assist in the preparation
of a draft environmental statement for
the Atlas Uranium Mill.

Review requested: Review and make an independent assessment
of the data and information presented by the applicant on following
topic:

Tailings Pond Embankment

- a. Review proposed increase in tailings dam height and consequent
increase in capacity with respect to structural stability
and flooding.
- b. In the event that inadequacies are found, provide a means
for obtaining the information. Request additional infor-
mation from the applicant or provide from other recognized
sources, suitably referenced.

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G. W. Reinmuth

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- c. When adequate information has been obtained, write a discussion entitled "Tailings Embankment" that addresses possible liquifaction, and the proposed increase in tailings dam height and seepage.

R. B. Chitwood, Chief
Technical Support Branch
Directorate of Licensing

Enclosure:
E.R., Moab, Utah Facility dtd 8/31/73

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SURNAME ▶	LPerson:icm x7631	JE Ayer	RB Chitwood			
DATE ▶	12/4/73	12/4/73	12/4/73			