

MEMO ROUTE SLIP Form AEC-03 (Rev. May 14, 1947)		See me about this, Note and return.	For con- sice. For signature.	For action. For information.
TO (Name and unit) Don Nussbaumer DML, BETH 010		INITIALS	REMARKS	
		DATE		
TO (Name and unit) HARRISON		INITIALS	REMARKS	
		DATE		
TO (Name and unit) files 40-665		INITIALS	REMARKS	
		DATE		
FROM (Name and unit) E. C. VanBlarcom RM, G-167		REMARKS		
PHONE NO. 5143	DATE 3-7-67			

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO c47 15 - 77649 - 1

A-5

UNITED STATES GOVERNMENT

Memorandum

TO : Files
THRU: Donald A. Nussbaumer, Chief
Source and Special Nuclear Materials Branch, DML

FROM : Don F. Harmon ^{SA}
Source and Special Nuclear Materials Branch
Division of Materials Licensing

SUBJECT: APPLICATION FOR LICENSE RENEWAL - THE ANACONDA COMPANY
DOCKET NO. 40-665

DATE: SEP 8 1965

DML:DFH

By application dated July 21, 1965, the subject licensee requested renewal of AEC Source Material License No. SUA-647. Information in the application indicates that the licensee's radiological safety program is essentially the same as previously described in correspondence with the Commission (see memos to file dated October 11, 1960, August 7, 1961, and September 13, 1962, for discussions and evaluation of the program). Furthermore, no items of noncompliance were noted during the last routine inspection of the licensee's activities on February 23-24, 1965. In view of the foregoing, it is hereby determined that it is appropriate to renew the subject license.

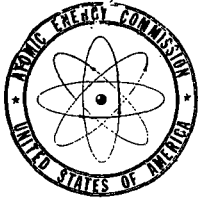


Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

"Excerpt from GJO Mill Visit Report - Anaconda Company Uranium
Mill at Grants, New Mexico - February 24, 1967"

The yellow cake from the thickener is given three stages of washing. The third stage is a wash with ammonium sulfate. The dryer is being run on three shifts to lower the moisture content to within specifications (2.00%).

Production in April will be increased to 120,000 tons/month feed of ore.



UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE, REGION IV
10395 WEST COLFAX, ROOM 200
DENVER, COLORADO 80215

Docket Files

A handwritten signature in black ink, appearing to be "G. D. Brown", written over a circular stamp or mark.

May 7, 1971

Gen W. Roy, Chief
Materials and Fuel Facilities Branch
Division of Compliance, HQ

ANACONDA COMPANY, GRANTS, NEW MEXICO
LICENSE NO. SUA-647 (Docket No. 40-665)
REPLY TO FORM AEC-592

Attached is a copy of the licensee's reply to our recent letter
and Form AEC-592.

This reply is considered adequate.

ORIGINAL SIGNED BY

G. D. BROWN

Glen D. Brown
Senior Radiation Specialist

CO:IV:JEH

Attachment:
Ltr dtd 5/5/71

cc: A. Glambusso, CO, w/encl.
L. Kornblith, CO "
R. H. Engelken, CO "

THE ANACONDA COMPANY

P. O. BOX 638, GRANTS, NEW MEXICO 87020



NEW MEXICO OPERATIONS

A. J. FITCH
MANAGER

May 5, 1971

Mr. John W. Flora, Director
United States Atomic Energy Commission
Division of Compliance, Region IV
10395 West Colfax, Room 200
Denver, Colorado 80215

Dear Mr. Flora:

This is in reply to your letter of April 30, 1971, notifying us of the item of noncompliance that was found during the inspection conducted on March 25 and 26, 1971. We are pleased to advise you that evaluations are now being made of airborne concentrations to which employees are exposed during some non-routine activities. Such surveys are now being made, when deemed necessary, for scheduled maintenance activities.

We are currently in the process of establishing the procedures that will allow us to make similar surveys during emergency or non-scheduled maintenance jobs. We estimate that by July 1, 1971, our surveys of non-routine activities will be adequate to show compliance with 10 CFR 20.201 (b) "Surveys".

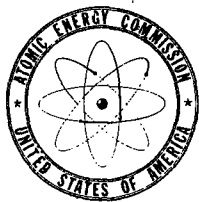
If you need any additional information regarding the corrective steps that we are taking please let me know.

Very truly yours,

A. J. Fitch, Manager

AJF:ds

000433



UNITED STATES
ATOMIC ENERGY COMMISSION

DIVISION OF COMPLIANCE, REGION IV
10395 WEST COLFAX, ROOM 200
DENVER, COLORADO 80215

April 30, 1971

File

ORIGINAL SUBMITTED BY

THRU: Glen D. Brown, Senior Radiation Specialist, CO:IV G. D. BROWN

THE ANACONDA COMPANY, GRANTS, NEW MEXICO
LICENSE NO. SUA-647 (Docket No. 40-665)
HEALTH AND SAFETY EVALUATION

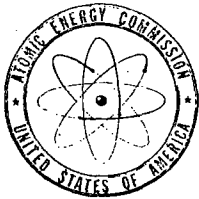
A routine, unannounced reinspection was conducted of activities authorized by subject license on March 25 and 26, 1971. The only item of noncompliance noted involves licensee's failure to evaluate the concentrations to which employees are exposed during certain non-routine maintenance operations involving the yellow cake dryer and barrel chute.

Film badges worn by a number of personnel indicate that these personnel are not likely to receive exposures in excess of 25% of the limits specified in 10 CFR 20.101(a). Although a bioassay program does not appear needed, periodic bioassays are collected and analyzed for natural uranium. A number of determinations of airborne concentrations, both in restricted areas and unrestricted areas, are performed by this licensee. During the period of June, 1969, until March, 1971, only a single breathing zone sample indicated a level in excess of MPC. A time-study confirmed that this employee had received less than 10% of the applicable MPC.

It is this inspector's opinion continued activity under this license should not pose any undue problems to employees or to the general public. It is recommended that reinspection of this facility be conducted in accordance with the normal priority system.

ORIGINAL FILED
by JAMES E. HYDER
James E. Hyder
Radiation Specialist

cc: G. W. Roy, CO ✓
-A. Glambusso, CO
-L. Kornblith, CO
-R. H. Engelken, CO



UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE, REGION IV
10395 WEST COLFAX, ROOM 200
DENVER, COLORADO 80215

April 30, 1971

The Anaconda Company
Attn: Mr. A. J. Fitch, General Manager
P. O. Box 638
Grants, New Mexico 87020

Gentlemen:

This letter relates to the discussion Mr. James E. Hyder of this office held with Messrs. Fitch, Webb, and Wilde following the inspection conducted on March 25 and 26, 1971, of the activities authorized under AEC License No. SUA-647, and the discussion Mr. Hyder held with Mr. Wilde on April 15, 1971. As noted during these discussions, it appears that certain of your activities were not conducted in full compliance with AEC requirements. The item and reference to the pertinent requirement are listed in section 5 of the attached Form AEC-592.

The purpose of this letter is to give you an opportunity to advise us, in writing, of your position concerning this item, and of any corrective steps you have taken, or plan to take, with respect to it, including specific actions that will preclude its recurrence. The date all corrective action was, or will be, completed should be included. Your reply should be sent to us within twenty (20) days of the date of this letter to assure that it will receive prompt attention in our further evaluation of this matter.

Please communicate directly with this office if you have any questions.

Sincerely yours,

Original Signed by
John W. Flora

John W. Flora
Director

Enclosure:
Form AEC-592

cc: Ralph Wilde, Radiation Safety Officer, w/encl.
bcc: G. W. Roy, CO, w/encl. (2) ✓
A. Giambusso, CO, w/encl.
L. Kornblith, CO, w/encl.
R. H. Engelken, CO, w/encl.

UNITED STATES ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE

1. LICENSEE The Anaconda Company P. O. Box 638 Grants, New Mexico 87020	2. REGIONAL OFFICE U. S. ATOMIC ENERGY COMMISSION REGION IV, DIVISION OF COMPLIANCE 10395 W. COLFAX, ROOM 200 DENVER, COLORADO 80215
3. LICENSE NUMBER SUA-647 (Docket No. 40-665)	4. DATE(S) OF INSPECTION March 25, 26, and April 16, 1971

5. The following activities under your license (identified in Item No. 3 above) appear to be in noncompliance with AEC regulations or license requirements, as indicated.

Contrary to the requirements of 10 CFR 20.201(b), "Surveys," the evaluation of the airborne concentrations to which employees are potentially exposed during some non-routine activities, such as maintenance operations on the yellow cake barreling apparatus, have not been adequate to show compliance with 10 CFR 20.103(a), "Exposure of individuals to concentrations of radioactive material in restricted areas."

ORIGINAL SET
by JAMES E. HYDER

Supplementary page None attached. James E. Hyder APR 30 1971
AEC Compliance Inspector Date

1. The Anaconda Company
P. O. Box 638
Grants, New Mexico 87020
2. License No. SUA-647 (Docket No. 40-665), I, II Report No. 40-665/71-1
3. March 25 and 26, and April 16, 1971, unannounced reinspection
4. Persons accompanying inspector:

Ed Kaufman, State of New Mexico Department of Health
5. Persons contacted:

Mr. Ralph Wilde, Radiation Safety Officer
Mr. Elroy Leany, Radiation Safety Technician
Mr. A. J. Fitch, General Manager
Mr. Nolan Webb, Assistant Mechanical Superintendent
Mr. G. Swanquist, Mill Superintendent
Mr. Don. Soderstrom, Assistant Mill Superintendent
Mr. William Parsons, Yellow Cake Foreman
Mr. E. Aragon, Mill Maintenance Foreman
Mr. J. McCarty, Utility Foreman
Mr. C. Munson, Carpentry Foreman
6. As a result of the reinspection of the activities authorized under License No. SUA-647, the only item of noncompliance noted involved the licensee's failure to adequately evaluate the airborne concentrations to which individuals are potentially exposed during some non-routine activities while performing maintenance on the yellow cake dryer and barreling apparatus. (See par. 23)
7. June 24 and 25, 1969
8. Proprietary Information - YES - Information pertaining to shipments of yellow cake to customers is considered as COMPANY CONFIDENTIAL. (PAR. 19)

<u> JK </u>	James E. Hyder	<u> 4/29/71 </u>
Initials	Inspector	Date
<u> JMB </u>	Glen D. Brown	<u> 4/30/71 </u>
Initials	Reviewer	Date

Inspection History

9. As a result of an announced reinspection conducted on June 24 and 25, 1969, of the activities authorized by License No. SUA-647, no items of noncompliance were noted and a Form AEC-591 indicating ~~the~~ same was issued at the conclusion of the inspection.

Scope and Conditions of License

10. License No. SUA-647 (Docket No. 40-665) authorizes the Anaconda Company, Grants, New Mexico, to possess uranium in unlimited quantities. This license was issued on February 11, 1971, and is dated to expire February 29, 1976.
11. License Condition No. 8 specifies that this license authorizes uranium ore processing at the licensee's uranium milling facility ~~at~~ a nominal throughput of 4,000 tons per day, and ore crushing at the licensee's Jackpile Mine in accordance with the procedures described in licensee's application dated May 6, 1969. The authorized place of use is the licensee's uranium milling facility located at Grants, New Mexico, and the licensee's Jackpile Mine located near Paguete, New Mexico.
12. License Condition No. 12 authorizes the licensee to incinerate discarded wooden equipment containing source material and return the ashes to process for recovery of contained uranium in accordance with the procedures described in the application dated October 14, 1961. However, there have been no recent incinerations. Wood of this type has been accumulated since the previous inspection.
13. License Condition No. 13 states that the licensee is authorized to dispose of radioactive liquid waste resulting from uranium processing operations to a subterranean disposal well according to procedures described in his application dated July 25, 1960, and subject to the following conditions:
 - a. Records shall be maintained of the volume of waste disposal, the average concentration of radioactive constituents, the natural water head pressures and injection rates.
 - b. Increases in injection pressure above that produced by the natural water head of the waste effluent stream is not authorized.
 - c. A yearly summary report shall be submitted to the Division of Materials Licensing, USAEC, Washington, D. C., describing the status of the injection program, including average monthly liquid injection rates, the concentration of radioactive constituents, average concentrations of uranium, radium-226, and thorium-230 in monitored well and surface waters, and the level of the water table. Reports shall be submitted no later than August 31 of each year.

By letter dated February 3, 1971, the licensee submitted this annual report concerning the status of the injection program for 1970.

14. License Condition 14 states that, "The licensee shall determine that employees leaving work are not contaminated with radioactive material. When an employee has showered and changed clothes prior to leaving work, he may be assumed to be free of contamination." The licensee requires that all operating personnel in the yellow cake section wear coveralls on the job. The employees are required to shower and change clothes before leaving the plant area. Service personnel, who occasionally work in the yellow cake section, are supplied with coveralls, as necessary. In addition, press men who work in the clarification section are also required to wear coveralls, change and shower, before leaving. Coveralls for all other operating and maintenance personnel are supplied by the company; however, they are not required to wear such coveralls on the job. The licensee estimates that approximately 75% of the employees wear coveralls supplied by the company and change clothes prior to leaving work. Mr. Wilde stated that he is exploring the possibility of purchasing an alpha-sensitive survey meter with which he proposes to spot check personnel for contamination.
15. License Condition 15 states "Changes in the mill circuit or equipment, including maintenance activities, shall be approved in writing by the Manager or Assistant Manager. During such changes and activities, radiation safety surveys shall be conducted to determine employee exposures to radioactive materials." Attached as Exhibit A is a written authorization to replace the dryer chute on one of the yellow cake barreling stations; this memo from the Manager of the facility specifies that radiation monitoring with the necessary time studies will be performed.

Organization and Administration

16. Mr. A. J. Fitch is still manager of the Anaconda Company's New Mexico operation. Mr. G. A. Swanquist is the current mill superintendent, and Mr. T. M. Fitch is currently the mechanical superintendent. There are a total of 605 employees at the New Mexico operations; of these, 290 are employed at the mine, 127 persons are employed at the mill, with an additional 114 employees assigned to the mechanical department and may perform maintenance-type operations at either the mine or the mill.
17. This mill is currently processing approximately 2,000 dry tons of uranium-bearing ore per day, six days a week. The work schedule is such that each employee works five days for a total of 40 hours per week. Mr. Wilde stated that the yellow cake and crusher areas operate only two shifts per day, with all other departments operating on a three-shift-per-day basis. Mr. Wilde stated that the 2,000 dry tons of ore per day resulted in a U₃O₈ output of approximately 11,300 pounds per day. According to Mr. Wilde, the uranium content of the ore is approximately 0.3% U₃O₈ and it had a moisture content of approximately 10%.

During a tour of the mill, it was noted that this ore presented no appreciable dusting problem at any location.

Facilities and Mill Process

18. The licensee's facilities, as well as the process for the separation of uranium from ore, remain essentially unchanged from that described in previous inspection reports.

Procurements and Transfers

19. Mr. Wilde stated that all of their uranium-bearing ore was obtained from Anaconda Company's own Jackpile and Paguate mines. Since the previous inspection, yellow cake has been shipped to the accounts of the U. S. Atomic Energy Commission, Westinghouse Electric Corporation, and a European company designated "NOK." During this inspection it was determined that from the period July 1, 1969 through February 29, 1971, a total of 5,584,380 pounds of U_3O_8 have been shipped to the Lucius Pitkin facility at Metropolis, Illinois, for sampling and following this sampling the material is transferred to the Allied Chemical Company's UF_6 plant, which is also located at Metropolis. More detailed records of these transfers from Anaconda to Lucius Pitkin are being retained in Region IV files.

Radiological Safety Procedures

20. The licensee's radiation safety program remains essentially as described in previous inspection reports. A number of general air and breathing zone samples are obtained on a monthly basis, in the yellow cake section and bucking room, as well as samples of several of the stack effluents. These include approximately 20 general air samples in the yellow cake section and 6 or 7 breathing zone air samples for the dryer operator, as well as a like number of samples for the sample room operator while sampling, capping, drum of yellow cake, etc., and three to four breathing zone samples obtained while the sample operator is preparing a sample, in addition, approximately three sample room general air samples are obtained, plus, approximately 6 samples of the rotoclone and sample room exhaust stack effluents and approximately 4 samples of the yellow cake section exhaust stack effluents.
21. In addition, samples were taken in other areas of the plant on a quarterly basis. These include on the order of 10 general air samples in the crushing plant, on the order of 10 to 12 general air samples in the vicinity of the Jackpile crusher, 4 general air samples in the sample tower, 6 general air samples in the vicinity of the fine ore bins, 10 general air samples in the grind and leach building, several general air samples in the office and metallurgical laboratories, 8 to 10 general air samples in the ion exchange building, 4 to 6 general air samples or breathing zone samples in the bucking room, one general air sample in the powerhouse, a number of general air samples in the various shops such as carpentry shop,

electrical shop, machine shop, garage, etc., 2 to 3 general air samples in the warehouse area.

22. A review of air sample results since the previous inspection revealed that a single breathing zone sample had indicated airborne concentrations in excess of MPC. A time-weighted study indicated this individual received an exposure of approximately 7% of that permitted by Part 20 for that 8-hour work shift.
23. During a discussion with Wilde and a review of records pertaining to surveys conducted during non-routine maintenance operations, particularly in locations where dusting had a significant potential, Wilde admitted that there was one somewhat repetitious maintenance activity involving repairs of the dryer chutes to the barreling stations during which times airborne concentrations had not been determined. Wilde stated that he had observed several of these operations and, although significant amounts of yellow cake dust was not observed, he was not in a position to say that personnel had not been exposed to significant concentrations of airborne activity and, therefore, he agreed that adequate surveys had not been performed.
24. In addition to the air samples collected within the restricted area, on the order of 10 to 15 air samples are collected in the unrestricted areas ^{monthly.} These records indicate the date, sample location, wind conditions, sky conditions, temperatures, etc. In addition, a number of samples are collected at the point of release of effluent to the atmosphere. A review of the analytical results of the samples taken from the various exhaust ducts and stacks revealed that in most instances concentrations of airborne natural uranium at the point of release were in excess of applicable MPC's; however, a review of the analytical results of samples collected in the unrestricted area revealed no instance where concentrations of airborne natural uranium in the unrestricted area exceeded the applicable maximum permissible concentration, Appendix B, Title 10, CFR 20.
25. In addition to the evaluations of airborne concentrations of radioactive material, Mr. Wilde makes quarterly surveys of the plant and tailings area for direct radiation, using an Eberline Model E-112 GM survey meter. Radiation readings are taken approximately five feet above the floor level, and normally no nearer than one foot from walls or equipment. These quarterly surveys have been routinely performed in February, May, August, and November. A review of these records indicate that radiation levels in most areas are less than 0.5 mr/hr. The one exception tends to be in the ion exchange building near the clarification press frames where values in the order of 2 mr/hr are frequently noted.

Personnel Monitoring

26. The Anaconda Company obtains film badges from Eberline Instrument Company on a monthly frequency. Form AEC-5 has been completed for each man assigned a film badge; approximately 50 persons are currently wearing badges. Both the supplier's reports and Forms AEC-5 were reviewed and it was noted that most individuals receive less than 60 millirem gamma and less than 100 millirem beta per month. In fact, most film badge reports indicate the exposures less than the minimum sensitivity. Review of Forms AEC-5 indicate that all individuals receive exposures of less than 25% of the limits specified in Part 20.

Waste Retention and Disposal

27. Mr. Wilde stated that the procedure for storing and disposal of mill tailings have remained unchanged since the previous inspection. In accordance with License Condition 13, the licensee submits annual reports of the volume of material injected into the injection well and the average concentrations of uranium, radium and thorium.
28. Mr. Wilde and the inspector toured the tailings retention pond and no evidence of seepage or a dike failure were observed. It was observed that there was well in excess of 6 feet of freeboard between the surface of the liquid tailings and the top of the tailings pond dike.
29. Mr. Wilde stated that at least twice a year they obtain water samples from a number of wells and streams in the vicinity of the mill. Mr. Wilde stated that all samples are analyzed for gross alpha and selected samples are analyzed for radium, thorium, and natural uranium. The results of the analyses of the samples which were collected in September, 1969, and May and September, 1970, have been submitted to the AEC with the licensee's reports submitted in February, 1970, and February, 1971, concerning the injection wells.

Security

30. There have been no changes in the security enforced by this licensee as described in previous reports, plant guards patrol the periphery of the restricted area regularly during each shift, noted conditions of fence, and any evidence of unauthorized entry. A report of the security checks submitted to Mr. Wilde by the superior of the guards at regular intervals.

Instructions

31. The licensee issues standard operating procedures for personnel that cover both operations and radiological safety. In addition, the licensee has posted copies of Form AEC-3 bulletinboards throughout the facility. Mr. Wilde possessed copies of 10 CFR 20 and 40, copy of license, as well as a booklet which he said is given to each employee when he

is hired on general plant safety.

Review with Management

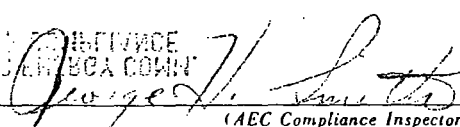
32. At the conclusion of the inspection, the inspector reviewed the results of the visit with Mr. Fitch, the facility manager; Mr. Nolan Webb, Assistant Mechanical Superintendent; and Mr. Ralph Wilde, Radiation Safety Officer. This time they were informed that the only item of noncompliance involved failure to adequately evaluate the airborne concentrations to which personnel were exposed during certain repetitive repairs on the dryer chute to the barreling station. Mr. Wilde explained that under their previous procedures he was not always informed prior to such work being initiated. Mr. Fitch stated they were in the process of revamping their procedures in order to comply with License Condition No. 15 and that he felt that once this was adequately refined that perhaps in the future this type problem would easily be prevented.
33. On April 16, 1971, Mr. Wilde was in the Region IV office and discussed with this inspector their current procedures involving maintenance. Mr. Wilde stated that he now participates in their regularly scheduled Friday maintenance meeting in which all scheduled maintenance operations are scheduled, priorities assigned, etc., at which time he can ask personnel involved for more details as to their proposed work in order to determine if airborne concentrations of uranium are possible and are likely to occur during the operations. Wilde stated they were also exploring the possibility of having certain foremen on the off-shifts collect samples during operations that tend to be dust-producing in order that a more detailed evaluation of potential exposures could be performed.

Duplicate Air Samples

34. During this inspection, several samples were collected in duplicate to determine the concentration of airborne activities. One set of samples was analyzed by AEC, Health Services Lab., ID, and one set was analyzed by Anaconda. Results were very close, as indicated below:

<u>Location</u>	<u>AEC</u> <u>uCi U/ml x 10⁻¹¹</u>	<u>Anaconda</u> <u>uCi U/ml x 10⁻¹¹</u>	<u>MPC</u> <u>uCi U/ml x 10⁻¹</u>
Yellow cake drum filling area	2.8	2.9	6.0
Yellow cake dryer	1.4	1.6	6.0
Sample tower	0.3	<0.05	2.5
Crusher area	0.3	0.21	2.5
Classifier	1.1	1.0	6.0
RIP	0.8	0.6	6.0

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

<p>1. LICENSEE</p> <p>The Anaconda Company P. O. Box 638 Grants, New Mexico 87020</p>	<p>2. REGIONAL OFFICE</p> <p>U. S. ATOMIC ENERGY COMMISSION REGION IV, DIVISION OF COMPLIANCE 10395 W. COLFAX, ROOM 200 DENVER, COLORADO 80215</p>
<p>3. LICENSE NUMBER(S)</p> <p>SUA-647 (Docket No. 40-665)</p>	<p>4. DATE OF INSPECTION</p> <p>June 24 & 25, 1969</p>
<p>5. INSPECTION FINDINGS</p> <p><input checked="" type="checkbox"/> A. No item of noncompliance was found.</p> <p><input type="checkbox"/> B. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42</p> <p><input type="checkbox"/> C. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42</p> <p><input type="checkbox"/> D. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)</p> <p><input type="checkbox"/> E. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)</p> <p><input type="checkbox"/> F. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)</p> <p><input type="checkbox"/> G. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)</p> <p><input type="checkbox"/> H. Form AEC-3 was not properly posted. 10 CFR 20.206(c)</p> <p><input type="checkbox"/> I. Records of the radiation exposure of individuals, were not properly maintained. 10 CFR 20.401(a) or 34.33(b)</p> <p><input type="checkbox"/> J. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)</p> <p><input type="checkbox"/> K. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51</p> <p><input type="checkbox"/> L. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)</p> <p><input type="checkbox"/> M. Records of inventories were not maintained. 10 CFR 34.26</p> <p><input type="checkbox"/> N. Utilization logs were not maintained. 10 CFR 34.27</p> <p style="text-align: right;"> DIVISION OF COMPLIANCE U. S. ATOMIC ENERGY COMMISSION  (AEC Compliance Inspector) </p>	
<p>6. LICENSEE'S ACKNOWLEDGMENT</p> <p>1969 JUN 17 11 53</p> <p>The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.</p> <p>_____ (Date)</p> <p>_____ (Licensee Representative — Title or Position)</p>	



DATE: 8/21/68

Don Harmon
SA SNM Branch

NOTE TO:

R. W. Dole

FROM:

Materials Inspection & Enforcement Branch
Division of Compliance

SUBJECT: COMPLIANCE INSPECTION HANDLED UNDER AEC-592 PROCEDURES FOR
BYPRODUCT MATERIAL LICENSE NO. SVA-647
ISSUED TO The Andromeda Company, Grants N.M.

As a result of the inspection conducted on July 10 & 11, 1968, the subject licensee submitted an application for license amendment to achieve correction of one or more items of noncompliance. Since this application is presently being considered by you, we have attached for your information the inspection report and letters exchanged between the Regional Compliance Office and the licensee subsequent to the inspection. If, after evaluating the application, you determine that it must be denied, please inform the Materials Inspection & Enforcement Branch (MIEB) so that appropriate enforcement action can be taken concurrently with the denial.

Please return the attachments to MIEB when you have finished with them.

Attachments

July 30, 1963

MEMORANDUM TO: A. J. Fitch, Manager
FROM: R. M. Wilde, Radiation Safety Director
SUBJECT: Results of Air Sampling Survey at the Jackpile Mine
Crushing Plant.

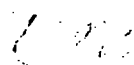
On July 19, 1963, an air sampling survey was made at the Jackpile Mine Crushing Plant. The crusher was in normal operation during the survey with truckloads of ore being dumped every 3 to 4 minutes. The ore was moist with an apparent moisture content of 5 to 10 percent. During the survey the wind was light and variable from the southwest at 5 to 6 miles per hour.

The results obtained in this air sampling survey are as follows:

Sample No.	Description of Location	Air Concentration	
		Uranium - $\mu\text{g}/\text{m}^3$	MFC
8192	Conveyor Floor, South Side	0.31	0.15
8193	Conveyor Floor, North Side	0.23	0.09
8194	Crusher Floor, South Side	0.25	0.10
8195	Crusher Floor, North Side	0.25	0.11
8196	Feeder Floor, South Side	0.35	0.14
8197	Feeder Floor, North Side	0.32	0.13
8198	Peking Floor, South Side Walkway	0.21	0.08
8199	Peking Floor, South Side of Bin	0.08	0.03
8200	Peking Floor, North Side Walkway	0.13	0.05
8201	Peking Floor, North Side of Bin	0.15	0.06
8202	Operator's Station	0.10	0.04

The air-borne uranium concentrations of all of the general area samples that were taken in this survey were well below MFC. We will include the Jackpile Mine Crushing Plant as one of the areas that will be sampled in our routine quarterly air sampling surveys.

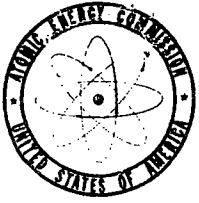
Included with this memorandum is a print of drawing No. 122-22, Jackpile Mine Crushing Plant General Drawing, that shows the layout and location of the equipment in the crushing plant.


R. M. WILDE

RMB:lw

Attachment

cc: E. C. Peterson
J. S. Herndon
122-22 (2)



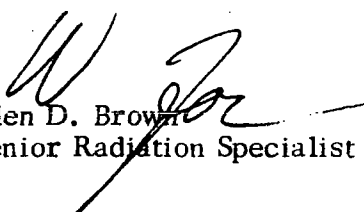
UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE, REGION IV
10395 WEST COLFAX, ROOM 200
DENVER, COLORADO 80215

August 5, 1968

J. R. Roeder, Chief, Materials Inspection and
Enforcement Branch, Division of Compliance, HQ

THE ANACONDA COMPANY, GRANTS, NEW MEXICO - LICENSE
NO. SUA-647 (DOCKET NO. 40-665) - REPLY TO FORM AEC-592

Transmitted herewith is the subject licensee's reply to our letter
of July 26, 1968. Pending the issuance of the referenced license
amendment, we consider the reply adequate.


Glen D. Brown
Senior Radiation Specialist

Attachment
Ltr., Fitch to Walker, dtd. 7-31-68

THE ANACONDA COMPANY

New Mexico Operations

P. O. Box 638, Grants, New Mexico



A. J. FITCH
MANAGER

July 31, 1968

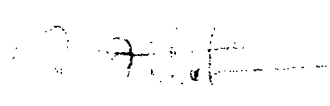
Donald I. Walker, Director
United States Atomic Energy Commission
Division of Compliance, Region IV
10395 West Colfax, Room 200
Denver, Colorado 80215

Dear Dr. Walker:

This will acknowledge your letter of July 26, 1968, together with Form AEC-592, concerning certain items of noncompliance which were noted during Mr. Smith's inspection of our operations on July 10 and 11, 1968.

I am enclosing a copy of my letter of July 31, 1968 to the AEC Division of Materials Licensing, together with attachments, which I trust will serve to advise you of our action in regard to these items of noncompliance.

Yours very truly,


A. J. FITCH

AJF:hw

00443

THE ANACONDA COMPANY

New Mexico Operations

P.O. Box 638

Grants, New Mexico



A. J. FITCH
Manager

July 31, 1968

United States Atomic Energy Commission
Washington, D.C. 20545

Attention: Director, Division of Materials Licensing

Gentlemen:

Under cover of my letter of July 2, 1968, I submitted to you our application for renewal of our Source Material License No. SUA-647.

We now wish to amend that application to include an additional address under Item No. 4 and an additional date to the references under Item No. 11. I am, therefore, enclosing Form No. AEC-2 which includes these additions.

This amended application is made as a result of an inspection of our operations on July 10 and 11, 1968, by the AEC Division of Compliance.

Enclosed, in quadruplicate and in support of this amended application, are the following:

1. Our General Drawing No. 122-22, Jackpile Mine Crushing Plant.
2. A memorandum dated July 30, 1968 showing the results of air sampling survey at the Jackpile Mine Crushing Plant.
3. A memorandum dated July 30, 1968, showing the results of air sampling survey during changing of scraper blade in yellow cake dryer.

Yours very truly,

A. J. Fitch
A. J. FITCH

AJF:hw

cc: Mr. Donald I. Walker, Director (w/enclosures)
Division of Compliance, Region IV
U. S. Atomic Energy Commission

bcc: Mr. J. G. Hall with enclosures
Mr. E. C. Peterson w/o enc.
Mr. R. M. Wilde w/o enc.

July 30, 1968

MEMORANDUM TO: A. J. Fitch, Manager

FROM: R. M. Wilde, Radiation Safety Director

SUBJECT: Results of Air Sampling Survey During Changing of Scraper Blade in Yellow Cake Dryer.

On July 29, 1968, the east scraper blade of the east yellow cake dryer was removed and replaced with a new blade. This job was done on day shift by mill repairmen E. Aragon and E. W. Whetten. The dryer had been washed down about three hours before the repair job was started. The Ancon Dust Collector that serves the dryer was operating during the repair job. A breathing zone sample was taken of the entire blade changing job by having E. Aragon wear the M.S.A. Monitaire sampler. The sampling head was attached to the brim of Aragon's hard hat and was within 3 to 4 inches of his nose and mouth. The blade changing operation required 25 minutes to complete.

The air-borne uranium concentration of this breathing zone sample was 0.5×10^{-11} uc/ml. This concentration is only 5% of MLD. It appeared from my personal observation that there is very little dust generated during this particular repair job. This is probably due to the fact that the yellow cake that remains in the dryer after cleanup is still damp and does not break up easily. Also, the full capacity of the dust collection fan, about 6000 cfm, is applied to the dryer door opening of about 12 square feet. This gives a face velocity of about 500 feet per minute to remove any dust that may be generated.

It does not appear that any excessive exposure to air borne radioactive material can arise from changing of the scraper blades. However, we will periodically take air samples of this repair job to assure that overexposures do not occur.

Ralph M. Wilde
RALPH M. WILDE

RMW:hw

cc: E. C. Peterson
AEC-DLI File (2)

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

<p>1. Check one:</p> <p><input type="checkbox"/> (a) New license</p> <p><input type="checkbox"/> (b) Amendment to License No.</p> <p><input checked="" type="checkbox"/> (c) Renewal of License No. 304-047</p> <p><input type="checkbox"/> (d) Previous License No.</p>		<p>2. NAME OF APPLICANT</p> <p style="text-align: center;">The Anaconda Company</p> <p>3. MUNICIPAL, BUSINESS OR ADDRESS</p> <p style="text-align: center;">P.O. Box 500, Grants, New Mexico</p>																	
<p>4. STATE THE ADDRESSES, AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p>The Anaconda Company, Jackpile Mine, near Paguate, New Mexico, addressed as above</p> <p>The Anaconda Company, Bluewater Plant, near Bluewater, New Mexico, addressed as above</p>																			
<p>5. BUSINESS OR OCCUPATION</p> <p>Mining and Milling Uranium Ore</p>		<p>6. (a) IF APPLICANT IS AN INDIVIDUAL STATE CITIZENSHIP</p>																	
<p>7. DESCRIBE THE PURPOSES FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p>For feed material to hydrometallurgical milling processes for the recovery and concentration of natural uranium into a precipitated and dried concentrate commonly known as "yellow cake"</p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL TO BE RECEIVED, POSSESSED, USED, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">(a) TYPE</th> <th style="width:35%;">(b) CHEMICAL FORM</th> <th style="width:30%;">(c) PHYSICAL FORM (including U or Th)</th> <th style="width:20%;">(d) MAXIMUM AMOUNT ANY ONE TIME</th> </tr> </thead> <tbody> <tr> <td>NATURAL URANIUM</td> <td>Uraninite type minerals</td> <td>Crude Ore 0.31% U</td> <td>100,000 Lbs.</td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td>Uranyl Sulphate or Hydrate</td> <td>Concentrate 15% U</td> <td>48,000 Lbs.</td> </tr> <tr> <td>THORIUM ISOTOPE</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (including U or Th)	(d) MAXIMUM AMOUNT ANY ONE TIME	NATURAL URANIUM	Uraninite type minerals	Crude Ore 0.31% U	100,000 Lbs.	URANIUM DEPLETED IN THE U-235 ISOTOPE	Uranyl Sulphate or Hydrate	Concentrate 15% U	48,000 Lbs.	THORIUM ISOTOPE			
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THORIUM ISOTOPE																			
<p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME</p> <p>Ore inventory, in-process pulps and solutions, and concentrate, equal to the above</p>																			
<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL REQUIRED IN EACH PROCESS, AND A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH PROCESS</p> <p>Crushing, grinding, sulphuric acid leaching, and classification for RP recovery of natural uranium and subsequent elution and concentration by precipitation as uranyl hydrate with drying and drum-packaging of this concentrate commonly known as "yellow cake". Up to 10,000 Lb. U at one step in process.</p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALITY STANDARDS, TRAINING, SPECIAL EXPERIENCE THAT WILL BE REQUIRED OF PERSONNEL SUPERVISING PERSONNEL EMPLOYED IN CONNECTION WITH THE USE OF SOURCE MATERIAL IF APPLICANT IS AN INDIVIDUAL</p> <p>Refer to letter and attachments submitted January 30, 1961 giving organization and qualifications of supervisory group and technical personnel responsible for radiation safety program.</p>																			
<p>11. DESCRIBE THE EQUIPMENT APPLICANT HAS OR INTENDS TO PURCHASE THAT IS NECESSARY TO SAFELY HANDLE THE SOURCE MATERIAL TO BE RECEIVED UNDER THIS LICENSE</p> <p>Refer to letters and attached reports and details for this item as well as items 10 and 12 submitted on January 30, 1961; April 19, 1961; August 17, 1961; October 16, 1961; June 5, 1962; July 11, 1962; July 31, 1968.</p>																			
<p>12. STATE THE SOURCE OF THE EQUIPMENT AND MATERIALS TO BE USED IN CONNECTION WITH THE USE OF SOURCE MATERIAL</p> <p>See above references for this part.</p>																			

See above references for this part

See above references for this part and parts (b) and (c) below

WASTE PRODUCTS. If none will be generated, state "None" opposite (c) below. If waste products will be generated, check here and prepare a supplemental sheet.

- (a) Quantity and type of radioactive waste that will be generated. Mill tailings, off-gas.
- (b) Detailed procedures for waste disposal. Refer to reports submitted July 11, 1962.

IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING

- (a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.
- (b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS OF ANY PACKAGING TO PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE OBTAINABLE FROM THE PRODUCT.
- (c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration, and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.
- (d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

CERTIFICATE

(This item must be completed by applicant)

The applicant, and any official executing this certificate on behalf of the applicant, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

THE ANACONDA COMPANY

Applicant named in item 2.

Dated July 31, 1968

BY:

A. J. Fitch
(Print type name under signature)

A. J. Fitch

Manager

Title of certifying official authorized to execute this certificate.

WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

UNITED STATES ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE

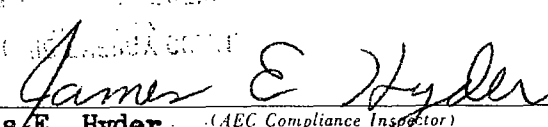
INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

<p>1. LICENSEE</p> <p>The Anaconda Company P.O. Box 638 Grants, New Mexico</p>	<p>2. REGIONAL OFFICE</p> <p>U. S. Atomic Energy Commission Region IV, Division of Compliance 10395 West Colfax Ave., Room 200 Denver, Colorado 80215</p>
---	---

<p>3. LICENSE NUMBER(S)</p> <p>SUA - 647 40-665</p>	<p>4. DATE OF INSPECTION</p> <p>March 30 and 31, 1967</p>
--	---

5. INSPECTION FINDINGS

- A. No item of noncompliance was found.
- B. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42
- C. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42
- D. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)
- E. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)
- F. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)
- G. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)
- H. Form AEC-3 was not properly posted. 10 CFR 20.206(c)
- I. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b)
- J. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)
- K. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51
- L. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)
- M. Records of inventories were not maintained. 10 CFR 34.26
- N. Utilization logs were not maintained. 10 CFR 34.27


 James E. Hyder (AEC Compliance Inspector)

6. LICENSEE'S ACKNOWLEDGMENT

The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.

_____ (Date) _____ (Licensee Representative -- Title or Position)

UNITED STATES ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

1. LICENSEE THE ANACONDA COMPANY P.O. BOX 638 GRANTS, NEW MEXICO	2. REGIONAL OFFICE U. S. ATOMIC ENERGY COMMISSION REGION IV, DIVISION OF COMPLIANCE 10395 W. COLFAX, ROOM 200 DENVER, COLORADO 80215
3. LICENSE NUMBER(S) SUA-647 40-665	4. DATE OF INSPECTION 1/3/66

5. INSPECTION FINDINGS

- A. No item of noncompliance was found.
- B. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA.
10 CFR 20.203(b) or 34.42
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10 CFR 20.203(e)
- F. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL.
10 CFR 20.203(f) (1) or (f) (2)
- G. Storage containers were not properly labeled to show the quantity, date of measurement, or kind of radioactive material in the containers. 10 CFR 20.203(f) (4)
- H. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)
- I. Form AEC-3 was not properly posted. 10 CFR 20.206(c)
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N. Paul Alley

(AEC Compliance Inspector)

6. LICENSEE'S ACKNOWLEDGMENT

The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.

(Date) _____
(Licensee Representative - Title or Position)

1010-107
[Handwritten initials]

1) *Nuneshammer*
2) *Files*

UNITED STATES GOVERNMENT

Memorandum

TO : R. G. Page, Chief, Enforcement Branch
Division of State & Licensee Relations, HQ

DATE: MAY 24 1965

FROM : Roger T. Woolsey, Radiation Specialist (Reviewer)
Region IV, Division of Compliance, Denver

Roger T. Woolsey

SUBJECT: ANACONDA COMPANY, GRANTS, NEW MEXICO - LICENSE NO. SUA-647,
SUPPLEMENT TO INSPECTION REPORT

CO:IV:NPA

Transmitted for your information are the analytical results of samples taken during the inspection conducted 2/23, 24/65. Duplicate air and liquid samples were taken by the AEC and the licensee.

AIR SAMPLES (Uranium - Natural)

Location	(uc/ml x 10 ⁻¹¹)	
	AEC	Licensee
Primary crusher during operation.	0.1	.08
Below fine ore bins.	< 0.1	.04
2nd floor - between driers.	0.4	.53
East side of barrel enclosure.	0.2	.26
Sample bucking room.	0.1	.13

LIQUID SAMPLES

	Ra-226 (uc/ml x 10 ⁻⁸)		Th-230 (uc/ml x 10 ⁻⁸)	
	AEC	Licensee	AEC	Licensee
Anaconda #2	< .3	< .2	<2	< .4
Anaconda #4	< .3	< .2	<2	< .4
Mexican Camp	< .3	< .2	<2	< .4



MEMO ROUTE SLIP
Form AEC-93 (Rev. May 14, 1947)

See me about this.
Note and return.

For concu se.
For signature.

For action.
For information.

1- D. A. Nussbaumer DML: S&SNMB H.A. [unclear]	INITIALS	REMARKS
	DATE	RE: ANACONDA COMPANY
		GRANTS, NEW MEXICO
		LICENSE NO. SUA-647
2- Files 40-665	INITIALS	REMARKS
	DATE	Attached for your information is memorandum dated
		May 24, 1965 from Region IV, CO, transmitting
		analytical results of samples taken during the
		inspection conducted February 23 and 24, 1965.
TO (Name and unit)	INITIALS	REMARKS
	DATE	
FROM (Name and unit) R. G. Page SLR:EB	REMARKS	
		Attachment
		Memo 5-24-65
PHONE NO. 7422	DATE 5-27-65	

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO c4j 16 - 77649 - 1

MAY 24 1965

R. G. Page, Chief, Enforcement Branch
Division of State & Licensee Relations, HQ

Roger T. Woolsey, Radiation Specialist (Reviewer) Original signed by
Region IV, Division of Compliance, Denver Roger T. Woolsey

ANACONDA COMPANY, GRANTS, NEW MEXICO - LICENSE NO. SUA-647,
SUPPLEMENT TO INSPECTION REPORT

CO:IV:NPA

Transmitted for your information are the analytical results of samples taken during the inspection conducted 2/23, 24/65. Duplicate air and liquid samples were taken by the AEC and the licensee.

AIR SAMPLES
(Uranium - Natural)
(uc/ml x 10⁻¹¹)

<u>Location</u>	<u>AEC</u>	<u>Licensee</u>
Primary crusher during operation.	0.1	.08
Below fine ore bins.	< 0.1	.04
2nd floor - between driers.	0.4	.53
East side of barrel enclosure.	0.2	.26
Sample bucking room.	0.1	.13

LIQUID SAMPLES

	Ra-226 (uc/ml x 10 ⁻⁸)		Th-230 (uc/ml x 10 ⁻⁸)	
	<u>AEC</u>	<u>Licensee</u>	<u>AEC</u>	<u>Licensee</u>
Anaconda #2	< .3	< .2	<2	< .4
Anaconda #4	< .3	< .2	<2	< .4
Mexican Camp	< .3	< .2	<2	< .4

II-A II
R(3)

UNITED STATES ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

MAR 3 1965

1. LICENSEE <i>THE ANPACONDA COMPANY P.O. BOX 638 GRANTS, NEW MEXICO</i>	2. REGIONAL OFFICE U.S. Atomic Energy Commission Division of Compliance, Region IV P. O. Box 15266 Denver 15, Colorado 80215
3. LICENSE NUMBER(S) <i>SUA-647 40-665</i>	4. DATE OF INSPECTION <i>FEBRUARY 23 & 24, 1965</i>

5. INSPECTION FINDINGS

- A. No Item of noncompliance was found.
- B. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 31.302
- C. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 31.302
- D. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)
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- G. Storage containers were not properly labeled to show the quantity, date of measurement and of radioactive material in the containers. 10 CFR 20.203(f) (4)
- H. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)
- I. Form AEC-3 was not properly posted. 10 CFR 20.206(c)
- J. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 31.203(b)
- K. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 31.303(d)
- L. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.41, 40.61 or 70.51
- M. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 31.105(c).
- N. Records of inventories were not maintained. 10 CFR 31.106
- O. Utilization logs were not maintained. 10 CFR 31.107

RECEIVED
 MAR 2 11 51 AM '65
 REGIONAL OFFICE
 DIVISION OF COMPLIANCE
 U.S. ATOMIC ENERGY COMMISSION

[Signature]
 (AEC Compliance Inspector)

6. LICENSEE'S ACKNOWLEDGMENT

The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.

 (Date) _____
 (Licensee Representative - Title or Position)

kg?

July 26, 1968

File

THRU: Glen D. Brown, Senior Radiation Specialist. CO:IV G. D. BROWN

THE ANACONDA COMPANY, GRANTS, NEW MEXICO - LICENSE NO. SUA-647 (Docket 40-665) - HEALTH AND SAFETY EVALUATION INSPECTION CONDUCTED JULY 10 and 11, 1968

The subject licensee operates a 2300-ton-per-day uranium ore processing mill under the auspices of the subject license. Based on the licensee's description of the procedures which are followed during the removal and repair of the scraper bars on the yellow cake dryer, the licensee's failure to determine the exposure of employees during this procedure should not represent a threat to health and safety. The other item of noncompliance, location of the primary crusher at a site approximately 40 miles from the uranium mill, does not represent a threat to health and safety. During the tour of the crushing facility, it was observed that the ore is sufficiently moist such that there was no visible airborne dust in the crushing plant.

The concentrations of radon which the licensee has measured in the mill are the subject of a separate memorandum to CO:HQ.

The subject uranium ore processing mill, with the above exceptions, is administered in a manner such that there is no apparent threat to health and safety of the public or the licensee employees. Licensee management stated that prompt action would be taken to correct the deficiencies which were noted during the inspection and to reduce the concentrations of radon in the mill. Based on the licensee's past history, the writer has no reason to doubt that prompt corrective actions will be or have been taken.

I recommend that a reinspection of the subject facility be conducted in accordance with the normal priority system.

ORIGINAL SIGNED BY
GEORGE H. SMITH

George H. Smith
Radiation Specialist

cc: J. R. Roeder, CO:HQ

U.S. ATOMIC ENERGY COMMISSION
HEALTH, SAFETY & ENVIRONMENTAL PROTECTION
MAIL & RECORDS SECTION

1968 JUL 29 AM 10 55

RECEIVED

JUL 26 1968

The Anaconda Company
P. O. Box 638
Grants, New Mexico 87020

Attention: Mr. A. J. Fitch
General Manager

Gentlemen:

This letter relates to the discussion Mr. Smith of this office held with Messrs. Fitch, Peterson, and Wilde at the conclusion of the recent inspection. In particular, certain of the activities conducted in connection with your license appeared to be in noncompliance with AEC requirements. These items and references to the pertinent requirements are listed in paragraph 5 of the attached Form AEC-592.

The purpose of this letter is to give you an opportunity to advise us, in writing, of your position concerning these items and of any corrective steps you have taken, or plan to take, with respect to these items. The date all corrective action was, or will be, completed should be included. Your reply should be sent to us within twenty (20) days of the date of this letter to assure that it will receive proper attention in our further evaluation of this matter.

Please communicate directly with this office if you have any questions.

Sincerely yours,

Original Signed by
Donald I. Walker

Donald I. Walker
Director

Enclosure
Form AEC-592

bcc: J. R. Roeder, CO:HQ, w/encl.

**UNITED STATES ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE**

Re (S) I, II

<p>1. LICENSEE The Anaconda Company P. O. Box 638 Grants, New Mexico 87020</p>	<p>2. REGIONAL OFFICE U. S. ATOMIC ENERGY COMMISSION REGION IV, DIVISION OF COMPLIANCE 10395 W. COLFAX, ROOM 200 DENVER, COLORADO 80215</p>
<p>3. LICENSE NUMBER SUA-647 (Docket No. 40-565)</p>	<p>4. DATE(S) OF INSPECTION July 10 and 11, 1968</p>
<p>5. The following activities under your license (identified in Item No. 3 above) appear to be in noncompliance with AEC regulations or license requirements, as indicated.</p> <p>a. Prior to July 10, 1968, surveys, as required by 10 CFR 20.201(b), "Surveys," were not adequate to show that the exposures of maintenance men to airborne natural uranium during the removal and repair of yellow cake dryer scraper bars, were in compliance with the provisions of 10 CFR 20.103(a), "Exposure of individuals to concentrations of radioactive material in restricted areas."</p> <p>b. As of July 10, 1968, uranium-bearing ore has been processed through a crusher which is located approximately 40 miles east of Grants, New Mexico, at the Jackpile-Taquate mine site. This is contrary to the provisions of Condition No. 8 of the license, in that, this facility is not included in the procedures by which uranium-bearing ore will be processed, and to the provisions of 10 CFR 40.3, "Licensing requirements," which require that such operations be authorized by a specific or general license which has been issued by the Commission.</p>	
<p>ORIGINAL SIGNED BY GEORGE H. SMITH</p>	
<p>Supplementary page <u>None</u> attached. <u>George H. Smith</u> JUL 26 1968 AEC Compliance Inspector Date</p>	

ORIGINAL: LICENSEE. COPIES: CO REGION CO HEADQUARTERS CO-ENFORCEMENT

1. The Anaconda Company
P. O. Box 638
Grants, New Mexico 87020
2. July 10 and 11, 1968
3. Reinspection (6)
4. 10 CFR 20, 40
5. License No. SUA-647 (Docket 40-665)
6. The unannounced reinspection of the subject licensed facility consisted of a review of all records pertinent to the use, transfer, and disposal of source material and personnel monitoring, discussions with supervisory personnel, and a tour of the facilities wherein sources materials are used and stored.

The following items of noncompliance were observed or otherwise noted during the course of the inspection:

10 CFR 20.201, "Surveys."

- (b) in that, prior to July 10, 1968, surveys were not adequate to show that the exposures of maintenance men to airborne natural uranium during the removal and repair of the scraper bars on the yellow cake dryer were within the limits specified in 10 CFR 20.103(a). (See par. 14)

License Condition No. 8
and 10 CFR 40.3

in that, as of July 11, 1968, the primary crusher was located approximately 40 miles east of the mill at the Jackpile-Paquate mine site. The primary crusher is not described in the various documents which have been incorporated by License Condition No. 8 nor does the licensee possess a specific license authorizing the use of this facility in the processing of uranium-bearing ore. (See par. 12)

7. March 30 and 31, 1967

8. YES - Licensee management has requested that the information discussed in paragraph 16 be treated as Company Confidential and not be disseminated to the public.

<u>[Signature]</u> Initials	George H. Smith Inspector	<u>7/25/68</u> Date
<u>[Signature]</u> Initials	Glen D. Brown Reviewer	<u>7/24/68</u> Date

HISTORY

9. A reinspection (5) of the subject licensed facility was conducted on March 30 and 31, 1967. No items of noncompliance were observed during the course of this inspection and the subject licensee was issued a Form AEC-591.

REINSPECTION (6)

10. An unannounced reinspection of the subject licensed facility was conducted on July 10 and 11, 1968. The principal persons contacted during the course of this inspection were Mr. A. J. Fitch, General Manager; Mr. E. C. Peterson, Assistant General Manager; Mr. Ralph Wilde, Radiation Safety Officer; and, Mr. Elroy Leany, Health Physics Technician. Mr. Wilde stated that there have been no changes in the mill's administrative personnel since the previous inspection.

Procurement and Transfer

11. Mr. Wilde stated that all of their uranium-bearing ore is obtained from The Anaconda Company's Jackpile-Paquate mine. Mr. Wilde stated that the mill processes an average of 2300 dry tons of uranium-bearing ore per day, that the ore contains from 0.30 to 0.35% by weight U₃₀₈, and that they recover at least 95% of the contained uranium. Mr. Wilde stated that since January 1, 1968, approximately half of the yellow cake produced at the mill has been sent to the AEC at Grand Junction, and the remaining half has been sold to Westinghouse. The review of the transfer records revealed that since January 17, 1968, a total of 1,604 barrels of yellow cake, with a gross weight of 978,210 pounds were sold to Westinghouse. According to Mr. Wilde, each barrel weights approximately 50 pounds and, therefore, the net quantity of yellow cake sold to Westinghouse was approximately 900,000 pounds. Mr. Wilde said that prior to June 25, 1968, the Westinghouse yellow cake was shipped to Lucius Pitkin, Inc., Grand Junction, for sampling and then shipped to Allied Chemical Company in Metropolis for eventual processing; since June 25, 298 barrels of yellow cake, with a gross weight of 198,670 pounds have been shipped to Lucius Pitkin's new sampling plant at Metropolis and then transferred to Allied Chemical's plant. Mr. Peterson stated that they have not seen copies of the source material licenses possessed by Westinghouse, Lucius Pitkin, or Allied Chemical Company and he did not know if such licenses were possessed. However, Mr. Peterson showed the writer a copy of the contract which was entered into with Westinghouse and this contract specifically stated that Westinghouse was responsible for assuring that they and all other persons who received yellow cake from The Anaconda Company possessed appropriate State and Federal licenses authorizing the receipt, possession, and use of this material. Mr. Peterson stated that The Anaconda Company lawyers had assured them that this contract condition satisfied

the requirements of the appropriate conditions of 10 CFR 40.

Facilities

12. Mr. Wilde stated that there have been no changes in the facilities or in the mill process since the previous inspection. During the inspection, it was learned that the mill's primary crusher is located at the Jackpile-Paquate mine site which is approximately 40 miles east of Grants, New Mexico, on the Laguna-Pueblo Indian Reservation. Mr. Wilde stated that the crusher has been located at this area since the mine first started operation. The writer and Mr. Wilde visited the mine site and it was observed that the primary crusher building is a concrete and sheet metal structure. According to Mr. Wilde, one operator is on duty at all times at the crusher and the operator sits in a small office atop the crusher where he can view both the incoming ore trucks, the crusher, and the crushed ore conveyor belt. It was observed that the ore is dumped through a grizzly into a jaw crusher. After crushing the ore travels across an approximately 50-yard-long covered conveyor belt to the railroad car loading station. It was noted that very little (approximately 5%) of the ore actually required crushing, but that it was just passing through the crusher. Mr. Fitch stated that the crusher had been located at the mine site to assure that no large rocks which could jam the ore car's dumping mechanism would be in the ore. Messrs. Fitch, Peterson, and Wilde were informed that operation of the crusher at the mine site constituted violation of License Condition No. 8 in that ore is being processed in a manner other than as described in the various incorporated procedures and of 10 CFR 40.3 in that The Anaconda Company does not possess a specific license which authorizes the processing of ore in the crusher. The aforementioned need for a license for the crusher was confirmed by telephone with Mr. Harmon, DML, on July 15, 1968. Messrs. Fitch and Peterson stated that they would immediately submit a request for an appropriate amendment to their license such that the operation of the crushing facility at the mine site is authorized by License No. SUA-647.

Airborne Radioactive Material - Restricted Area

13. General

Mr. Wilde stated that the program for determining the concentrations of airborne radioactive material in the mill had remained unchanged since the previous inspection. The review of the results of the air sampling program revealed that with one exception all of the general air and breathing zone samples contained concentrations of airborne natural uranium less than the applicable MPC limits. The results of the analysis of a breathing zone sample which was collected while a yellow cake sample room operator prepared a lot composite sample were reported as containing 10.8×10^{-11} uc/ml airborne natural uranium; this

sample is discussed further in the following paragraph 15. Copies of the analyses results for all breathing zone and general air samples which have been collected at the mill during the period March 1, 1967 through July 1, 1968 are being retained.

14. Mr. Wilde stated that they collect air samples during nonroutine operations. During the tour of the mill it was observed that the yellow cake dryers are equipped with "scraper bars" which scrape the dried yellow cake from the drying drum. Mr. Wilde stated that these bars are occasionally removed from the driers and the edges of the bars are dressed. Messrs. Wilde and Leany said that they had never observed this operation. Mr. Wilde contacted the mill maintenance foreman and he stated that they remove and dress a scraper bar approximately once every six weeks; the scraper bars are removed and dressed on the graveyard shift; prior to removing the bars, the inside of the dryer is thoroughly washed down; and during the removal of the bars the dust collector is operated at full capacity so that 6000 cfm of air is pulled through the dryer. According to Mr. Wilde, during the removal of the bars only the maintenance man's arms are in the dryer. Mr. Wilde stated that they had never collected an air sample to determine the exposure to airborne natural uranium of the maintenance man during the removal and dressing of the "scraper bars." Messrs. Peterson, Fitch, and Wilde were informed that failure to determine that the maintenance men were not exposed to concentrations of airborne natural uranium in excess of the limits specified in 10 CFR 20.103 constituted violation of section 10 CFR 20.201(b). Mr. Wilde stated that he was sure that there were no excessive exposures to airborne natural uranium during the removal and dressing of the "scraper bars", but that the next time this operation was performed he would see that breathing zone samples were collected and that the exposures of the maintenance men were determined. Messrs. Fitch and Peterson concurred in their proposed corrective action.

15. Time-Weighted Exposures

Mr. Wilde stated that all mill employees routinely work 40 hours in any seven consecutive days and therefore the applicable MPC limits for airborne natural uranium in the mill are 6×10^{-11} uc/ml in areas where uranium is present free from its daughter products and 2.5×10^{-11} uc/ml in areas where uranium is present in equilibrium with its daughter products.

Mr. Wilde said that because with one exception, all concentrations of airborne natural uranium noted in general air and breathing zone samples during the period March 1, 1967 through July 1, 1968, were less than the applicable MPC limits, he had performed only one time-weighted exposure calculation. The review of this time-weighted exposure calculation revealed that the individual who was exposed to the 10.8×10^{-11} uc/ml of airborne natural uranium (see par. 13) received a total time-weighted exposure during that

week of 0.52×10^{-11} uc/ml of airborne natural uranium or approximately 9% of the applicable MPC limit (6×10^{-11} uc/ml natural uranium).

16. Radon Sampling

Mr. Wilde stated that on four occasions since the last inspection, Rn-222 plus daughter concentrations have been determined at all of the routine general air sampling stations in the mill. (The results of this sampling program is the subject of a separate memorandum and therefore will not be discussed in this report.) However, it should be noted that Mr. Wilde stated that he would continue to determine the concentrations of Rn-222 and daughters and that he plans to determine employees' exposures to radon and daughters plus airborne natural uranium and daughters in order to assure that employees are not being exposed to concentrations in excess of the applicable limits. Mr. Wilde said that, if necessary, they would alter the mill process circuit (cover and vent the leach tanks) to reduce the concentrations of Rn-222 plus daughters.

Airborne Natural Uranium - Unrestricted Area

17. Mr. Wilde stated that their program for determining the concentrations of airborne natural uranium released to the unrestricted area had remained unchanged since the previous inspection, i.e., all stacks and vents where airborne natural uranium could be released from the facility are sampled once a month and at least seven air samples are collected on the perimeter of the facility once a month. The analyses results for all unrestricted area air samples and samples collected from the various exhaust ducts and stacks are being retained. The review of the analyses results revealed that the maximum concentration of airborne natural uranium observed in an effluent from a facility exhaust stack or duct was 520×10^{-11} uc/ml; this sample was collected from the exhaust stack for one of the dust collectors in the yellow cake packaging area. It was observed that all samples collected from the stacks and ducts contained concentrations of airborne natural uranium in excess of the applicable MPC limit for average annual release to the unrestricted area (2×10^{-12} uc/ml or 8×10^{-13} uc/ml natural uranium). However, the review of the results of the analysis of the perimeter samples revealed that the maximum concentration of airborne natural uranium noted in one of these samples was 3.3×10^{-13} uc/ml and approximately 90% of all samples contained natural uranium in concentrations less than 10% of the applicable MPC limit for average annual release of airborne natural uranium in equilibrium with its daughter products to the unrestricted area. It was observed that meteorological conditions at the time of unrestricted area air sample collection were recorded.

Waste Retention and Disposal System

18. Mr. Wilde stated that the procedures for storing and disposing of mill tailings have remained unchanged since the previous inspection. The tailings are piped to the tailings retention pond where the sands and slimes settle out and, when necessary, the liquor is decanted, filtered, and disposed of to a deep well (See License Condition No. 13). At the time of the inspection, Mr. Wilde stated that they were not disposing of liquid to the deep well because evaporation was keeping the pond at an acceptable level. Mr. Wilde said that the liquid is injected into the well at the pressure of the natural water head of the waste effluent stream (see License Condition No. 13.B.). Mr. Wilde stated that records of the volume of waste injected into the well and the average concentrations of uranium, Ra-226, and Th-230 in the waste are maintained. It should be noted that License Condition No. 13.C. requires that the licensee submit an annual report of the volume of material injected into the well and the average concentrations of uranium, Ra-226, and Th-230 in the injected material. On January 29, 1968, the licensee submitted the aforementioned report for the period January 1 through December 31, 1967; a copy of this report is on file in the CO:IV files. The review of the deep well injection records for the period January 1 through May 1, 1968 revealed that during this period a total of 26,322,300 gallons of solution were injected into the disposal well. The average monthly concentrations of Th-230 injected into the well ranged from 1.2×10^{-4} uc/ml to 2.1×10^{-4} uc/ml; the average monthly concentration of Ra-226 ranged from 2.84×10^{-8} uc/ml to 1.42×10^{-7} uc/ml; and, the average monthly concentration of natural uranium ranged from 2.95×10^{-6} uc/ml to 5.4×10^{-6} uc/ml. The review of the records revealed that since the start of the injection program in January 1960, a total of 12.79 curies of natural uranium, 368.7 curies of Th-230, and 0.642 curies of Ra-226 have been injected into the well.
19. Mr. Wilde and the writer toured the tailings retention ponds and no evidence of seepage or a tailings pond dike failure were observed. It was observed that there was at least six feet of free board between the surface of the liquid tailings and the top of the tailings pond dike. Mr. Wilde stated that they have had varied success in their attempts to stabilize several sand tailings piles by covering them with earth and then planting with various ground cover. It was observed that there was stabilizing growth on one portion of a pond and, for no explainable reason, the earth cover on an adjacent portion was eroded away such that the sand tails were visible.
20. Mr. Wilde stated that twice a year they obtain water samples from a number of wells and streams in the vicinity of the mill. Mr. Wilde stated that all samples are analyzed for gross alpha content and that selected samples are analyzed for Ra-226, Th-230, and

natural uranium content . A description of the sampling locations and the results of the analysis of the samples which were collected in May and September 1967, were submitted to the AEC with the licensee's letter of January 29, 1968; a copy of this letter is contained in the CO:IV files. Mr. Wilde stated that the analyses of the samples which were collected in late May 1968 had not been completed at the time of the inspection.

External Radiation

21. Mr. Wilde stated that once every three months they conduct an external radiation survey throughout the mill. A review of the external radiation survey records revealed that the maximum recorded external radiation reading was 10 mrem/hr beta plus gamma and 0.75 mr/hr gamma, at contact with the top of an open barrel of yellow cake. The next highest recorded external radiation levels were 1.0 mr/hr beta plus gamma; these readings were obtained at contact with the clarification press frames and the top of the sand tails pile. Mr. Wilde stated that they use an Eberline Model E-112B-1 Beta-gamma survey meter to conduct the aforementioned surveys.

Personnel Monitoring

22. Mr. Wilde stated that selected mill personnel are required to wear film badges. Film badges are supplied and processed by Eberline Instrument Company on a monthly exchange basis and records of film badge exposures are maintained on the vendor's reports and properly completed Forms AEC-5. Mr. Wilde said that all persons who work in the yellow cake drying and packaging section of the mill and selected individuals in all other departments of the mill wear film badges. According to Mr. Wilde the film badges in other than the yellow cake department are rotated among the various personnel on a yearly basis. Mr. Wilde stated that the exposure received by the film badge worn by an individual who is working in a specific job classification in one department of the mill is assigned to all individuals who work in the same job classification in that department. A review of the film badge records for the period March 1, 1967 to May 1, 1968 revealed that the maximum recorded monthly exposure was 210 mrem beta plus 60 mr gamma; this exposure was received by the film badge of an individual who works in the yellow cake section. It was observed that all recorded cumulative quarterly exposures were less than 25% of the limits specified in 10 CFR 20.101(a).
23. Mr. Wilde stated that they have continued to obtain monthly urine samples from all mill employees and that these samples are analyzed for uranium content. According to Mr. Wilde no urinary concentrations of uranium in excess of the concentrations reported during the previous inspection have been noted.

Personnel Instruction

24. It was observed that Form AEC-3 was posted on various bulletin boards throughout the mill and that Mr. Wilde possessed copies of 10 CFR 20 and 40 and the license. Mr. Wilde stated that the aforementioned documents were available to any mill employee upon request. Mr. Wilde said that each mill employee receives and is required to read The Anaconda Company safety manual. Mr. Wilde said that personnel are reinstructed in the applicable safety procedures during periodic safety meetings.

Incineration

25. Mr. Wilde stated that there have been no disposals of radioactive materials by incineration (see License Condition No. 12) since the previous inspection.

Posting, Labeling, and Security

26. A tour of the mill perimeter fence revealed that the mill is completely enclosed by a 5-strand barbed-wire fence which is in good repair. Mr. Wilde stated that the plant security guards are required to tour the perimeter fence once each shift and it was observed that reports of the tour findings are submitted to Mr. Wilde by the supervisor of guards once per week. During the tour of the perimeter fence, it was observed that it was prominently posted with signs bearing the wording required by License Condition No. 10 and signs which stated that the area was private property and there should be no trespassing. All entrances to the mill compound were observed to be under the constant surveillance of a guard and posted with signs as described in License Condition No. 10. The entrances to the mill buildings were observed to be posted in accordance with the provisions of 10 CFR 20.203(d)(2), where appropriate.

DISCUSSION WITH MANAGEMENT

27. The deficiencies noted during the course of the subject inspection were discussed with Messrs. Fitch, Peterson, and Wilde at the conclusion of the inspection. The deficiencies and their proposed corrective actions are contained in paragraphs 12 and 14 of this report.