

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Express Pipeline		3. License number 54-27553-01
2. #3900, 421 - 7 Avenue SW Calgary, Alberta, Canada T2P 4K9		4. Expiration date January 31, 2002
		5. Docket or Reference No 030-34320
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license	A. See Condition 9.A.

9. Authorized use

- A. To be used, for evaluated and approved licensing purposes, in Rosemont/Kay-Ray/Sensall, Inc.; TN Technologies, Inc.; LFE Corporation, Inc.; Ohmart Corporation; Gamma-MetPics, Inc.; Ronan Engineering Company; Berthold Systems, Inc.; and Data Measurement Corporation fixed gauging devices that have been registered either with NRC under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with an NRC or Agreement State specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.

200032

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PDR ADOCK 03034320
C PDR

OFFICIAL RECORD COPY

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
54-27553-01

Docket or Reference Number
030-34320

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Eagle Buttes Station, Section 9-24N R12E, west of Ft. Benton, Montana; Straw Station, Section 36-T13N R15E, near Hobson, Montana; Greybull Station, Section 1-T51N R94W, near Greybull, Wyoming; Kirby Creek Station, Section 13-T42N R92W, near Termopolis, Wyoming.
11. A. Licensed material shall be used by, or under the supervision of, Tim Zboya.
B. The Radiation Safety Officer for this license is Tim Zboya.
12. The licensee may not possess and use materials authorized in Items 6, 7, and 8, until: 1) the licensee has constructed the facilities and obtained the equipment described in the application and supporting documentation; and 2) the U.S. Nuclear Regulatory Commission, Region IV, ATTN: Director, Division of Radiation Safety and Safeguards, has been notified in writing that activities authorized by the license will be initiated.
13. In accordance with the requirements set forth in 10 CFR 30.36(b), the licensee shall promptly notify the U.S. Nuclear Regulatory Commission, Region IV in writing, of a decision not to complete the facility, acquire equipment, or possess and use authorized material.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
E. Sealed sources need not be leak tested if:

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15. E. (Continued)
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Nuclear Material Safety. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Kay-Ray, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
16. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.

MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense Number
54-27553-01Docket or Reference Number
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17. Installation, initial radiation surveys, relocation, removal from service, or any similar activity with devices containing licensed material shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services. The licensee may initially mount the device only in accordance with written instructions provided by the manufacturer; however, the device may not be used until surveyed by a person specifically licensed by the Commission or an Agreement State to install gauges. The licensee may maintain, repair, or replace device components not directly associated with the devices's sealed source, its related shielding, or the device's on-off mechanism; and that will not result in increased radiation levels in accessible areas about the device.
18. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
19. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
20. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
21. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
22. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
54-27553-01

Docket or Reference Number
030-34320

23. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated December 20, 1996
- B. Letter dated January 15, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
Billie Gruszynski

Date JAN 21 1997

By

Nuclear Materials Licensing Branch
Region IV, Arlington, Texas 76011



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

January 21, 1997

Express Pipeline

ATTN: Tim Zboya
#3900, 421 - 7 Avenue SW
Calgary, Alberta, Canada T2P 4K9

SUBJECT: NEW LICENSE

Please find enclosed License No. 54-27553-01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at (817)860-8120.

Note that Condition 12 restricts you from possessing and using byproduct materials identified in Items 6, 7, and 8 until construction of the facilities identified in the application has been completed. When the facilities have been completed and before possession of any specifically licensed byproduct material, you must notify the Commission in writing. When notified, the licensing staff will issue a "fee exempt" amendment to authorize the possession and use of materials identified in Items 6, 7, and 8 of the license. Please state Control 466284 when providing the notification.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and

obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
 - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
 - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
 - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
 - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
 - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Also enclosed, please find the NRC letter dated July 12, 1995, to all materials licensees which transmits the NRC Policy on Communications Between the NRC and Licensees. It is the intent of this policy to foster greater openness and candid communications and to improve interactions with our licensees. We encourage you and your staff to become familiar with these principles so that we can maintain a high level of professional communication at all levels in our organizations.

Thank you for your cooperation.

Sincerely,

Original Signed By
Billie Gruszynski

Billie Gruszynski (Ms.)
Nuclear Materials Licensing Branch

Docket: 030-34320
License: 54-27553-01
Control: 466284

Enclosures: As stated

JAN 21 1997

Express Pipeline

-4-

DOCUMENT NAME: P:\EXPRESS.CVR

To receive a copy of this document, indicate in the box "C" - Copy without attachment/enclosure "E" - Copy with attachment/enclosure "N" - No Copy

RIV:NMLB	N						
BGruszynski <i>Bg</i>							
1/21/97							

OFFICIAL RECORD COPY

LEGAL IDENTITY QUESTIONNAIRE

The type of information requested by this form will be helpful to Region IV in performing its regulatory responsibilities and should be sought during initial licensing and subsequent routine inspection contacts with licensees. However, licensee provision of this information is not a requirement. If the licensee cannot supply all of the indicated information, obtain as much as possible, especially for smaller businesses. Information should be obtained informally by telephone or personal contact. This form shall be completed by Region IV personnel only. It should not be sent to an applicant or licensee nor should the information requests be part of any standard correspondence format. Place the completed copy of this form in the docket file.

Current Full Legal Name of Licensee: Express Pipeline

Previous Legal Name: None

License No. 54-27553-01

Licensee Contact and Title: Jim Zhaya
Telephone: 403-691-8833 (Canada)

Form of business:

- ☐ Individual Person
☐ Sole Proprietorship
List Owner's Name, Home Address, and Telephone No. below
☒ Partnership TransCanada Pipelines Ltd. &
List Partners' Names, Home Addresses, and Tele Nos. below
☐ Corporation
Attach List of Names and Home Addresses for the following:
Corporate Officers
Any Principal Stock Holder
Members of Board of Directors
☐ Other (Provide detailed information below)

Alberta Energy Co
Ltd

Billie Gruyski
NRC Staff Member

1/21/97
Date

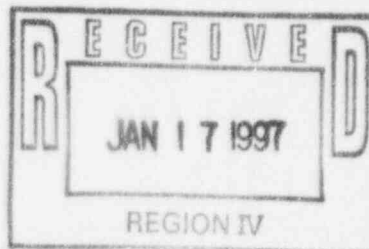
Mailing and Executive Address:
#3900, 421 - 7th Avenue S.W., Calgary, Alberta Canada T2P 4K9
TEL (403) 691-8822 Fax (403) 691-8856

m/s #16
T4
Express Pipeline Partnership



January 15, 1997

Nuclear Materials Licensing Section
U.S. Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, Texas, USA, 19011-8064



Attention: **Billie Gruszynski**

Dear Ms Gruszynski,

Re: **Application for Material License**
Control Number: 466284

Further to your assessment of our radioisotope license application of December, 1996 we have the following to add:

ITEM 9. - FACILITIES AND EQUIPMENT

- 9.1. Please refer to drawings sent with original application.
- 9.2. The gauges will be mounted outdoors and will be subject to normal environmental and temperature conditions for each location. Kay-Ray source housings have been tested for environmental conditions ranging from 130°F in still air down to -40°F in still air and shade. No environmental conditions outside of these are anticipated. No elevated temperatures, corrosive atmospheres, vibration or physical damage should be encountered in normal, routine operation.
- 9.3. No temperature conditions in excess of the manufacturers maximum operating conditions will be encountered, therefore cooling jackets are not required.
- 9.4. Not applicable.
- 9.5. **Maintenance of Gauges**
A continuous maintenance program consisting of the following checks will be carried out on a monthly basis:
 - Verify that labels and signs are visible and legible.
 - Verify that shutter is operating properly (Open & Close). If shutter is difficult to operate contact Tim Zboya or a trained individual designated by Tim Zboya for further instruction.
 - Verify that gauge has not suffered any corrosion or damage from corrosive materials and or the environment.
- 9.6. **Emergency Procedures**
Emergency response procedures shall be initiated whenever a nuclear gauge is exposed to fire, explosion, corrosion or has experienced physical damage. The individual discovering the problem shall initiate the following action:
 1. While remaining at a safe distance (5 meters) shall prevent personnel from entering the area around the damaged source housing.
 2. Have someone contact Tim Zboya at (403)691-8833 or a trained individual designated by Tim Zboya. If a person is assigned the task of contacting Tim Zboya or a trained individual designated by Tim Zboya, have that person report back after Tim Zboya or a trained individual designated by Tim Zboya has been contacted. If that person does not return, send a second person.

466284



3. Rope off the area at a distance of five (5) meters until a radiation survey has been performed by a qualified Health physicist.
4. Have the manufacturer or a qualified health physicist perform a leak test on the device.
5. Do not allow anyone in the roped off area until the results of the leak test have been confirmed as negative.
6. Tim Zboya or a trained individual designated by Tim Zboya will be responsible for informing the Nuclear Regulatory Commission of the incident and what steps are being taken to correct the situation.

10.4 Leak Testing

We understand that a leak test frequency of either six (6) months or three (3) years will be stated as a condition in the license and that the actual frequency will be determined by the devices in our possession.

10.5 Lock-out Procedures

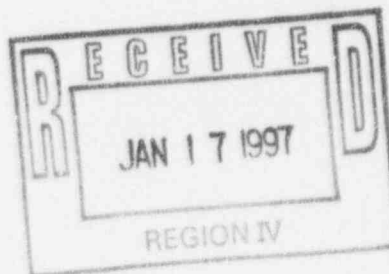
Tim Zboya or a trained individual designated by Tim Zboya will be responsible for the performance of the lockout of the device(s). Standard "lock-out" procedures are available for personnel at the control center for each location which has a device.

We trust that the above information will clarify our radioisotope license application so that it may be approved as soon as possible. If you require any further information, please do not hesitate to contact the undersigned at (403)691-8833.

Yours truly,

EXPRESS PIPELINE

Tim Zboya, P.Eng.
Project Manager, Canadian Pipeline



1/21/97- In telcon with Tim Zboya, it was noted that applicant had not yet completed construction of stations as presented in application. They are almost complete.
Bz

466 284

CONVERSATION RECORD

TIME

DATE

1/9/97

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☐ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

ROUTING

NAME/SYMBOL

INT

Jim Zhoya

Express Pipeline

(403) 691-8833

SUBJECT

New license - Fixed Gauge

SUMMARY

Out of office until 1/9/97.

Mr. Zhoya was asked to provide the following info:

1. Under Item 9 of Guide:

a. Environmental conditions to which gauges exposed -

b. Cooling system - etc.

c. Info on maintenance of gauges

d. Emergency procedures

2. We must have model # if we designate

a 3-yr leak test for all gauges

3. Under 10.5 (Lock out procedures) Need responsible individual

ACTION REQUIRED

await reply.

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Billie Grunzowski 1/10/97

ACTION TAKEN

1/13- Shawn Hunt, Consultant called re: reply.

SIGNATURE

TITLE

DATE

He is to complete & send out by end of week

(FOR LEMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: _____
Status Code: 3 _____
Fee Category: _____
Exp. Date: 0 _____
Fee Comments: _____
Decom Fin Assur Regd: _____

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: EXPRESS PIPELINE
Received Date: 9/1/96
Docket No.: 3034320
Control No.: 466284
License No.: _____
Action Type: New Licensee

2. FEE ATTACHED \$550-
Amount: _____
Check No.: 00000043

3. COMMENTS

Signed Laura Smiley
Date 12/30/96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: 3P \$550

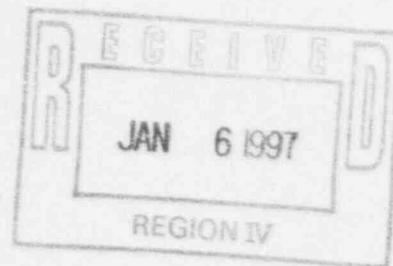
2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License ☒

3. OTHER

Signed
Date

SC
1/2/97



1997 JAN -2 PM 3:19

Log	<u>Jan 7 IV</u>
Remitter	_____
Check No.	<u>43</u>
Amount	<u>\$550</u>
Fee Category	<u>3P</u>
Type of Fee	<u>App</u>
Date Check Rec'd	<u>1/2/97</u>
Date Completed	<u>1/2/97</u>
By:	<u>SC</u>

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-8 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item):



A. NEW LICENSE



B. AMENDMENT TO LICENSE NUMBER _____



C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (include Zip code)

Express Pipeline
#3900, 421 - 7 Avenue SW
Calgary, Alberta
T2P 4K9

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

See Attached

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Tim Zboya
(403) 691-8833

TELEPHONE NUMBER

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount
which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

9. FACILITIES AND EQUIPMENT

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT
ENCLOSED \$

13. CERTIFICATION (Must be completed by applicant): THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Bob Towler, Sr. Vice President

SIGNATURE

K Towler

DATE

96-12-20

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
-------------	---------	--------------	-----------------	--------------	----------

\$

APPROVED BY

DATE

A06284

Application for Material Licence - NRC Form 313

Item 3. - Address(es) where licensed material will be used or possessed.

1. Eagle Buttes Station - Section 9-24N R12E, Montana
2. Straw Station - Section 36-T13N R15E, Montana
3. Greybull Station - Section 1-T51N R94W, Wyoming
4. Kirby Creek Station - Section 13-T42N R92W, Wyoming

Item 5. - Radioactive material.

- A. Cesium-137
- B. Cesium chloride - Sealed sources
- C. 500 mCi (per device) for possession and use in Kay-Ray devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the Nuclear Regulatory Commission or an Agreement State.

Item 6. - Purpose(s) for which licensed material will be used.

The purpose of the devices are to measure the density of a material in a pipeline.

Item 7. - Individual(s) responsible for radiation safety program and their training experience.

Tim Zboya
Express Pipeline
#3900, 421 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 4K9
Phone: (403) 691-8833
FAX: (403) 691-8856

Tim Zboya will be attending the training and instruction provided by Kay-Ray Inc. at the time of installation.

Item 8. - Training for individuals working in or frequenting restricted areas.

All individuals who are required to operate or work near a device will attend the training and instruction given at the time of installation.

Item 9. - Facilities and equipment.

Please refer to attached drawings.

Item 10. - Radiation safety program.

10.1. Performance of Service Operations by Others

All services such as installation, initial radiation survey, maintenance, device relocation or removal, etc., will be performed by:

Kay-Ray Inc.
1400 Business Centre Drive
Mt. Prospect, Illinois
60056

Illinois Department of Nuclear Safety Licence No.: IL-01010-03

10.2 Personnel monitoring equipment

No personnel monitoring is required.

10.3 Radiation detection instruments

No radiation detection instrumentation is required.

10.4 Leak-testing

We request that Express Pipeline be granted a three (3) year leak test interval.

We request that option two be granted for leak testing. Leak test sample analysis will be performed by:

Kay-Ray Inc.

1400 Business Centre Drive

Mt. Prospect, Illinois

60056

Illinois Department of Nuclear Safety Licence No.: IL-01010-03

Leak Test Kit Model No.: 7805 (Part No.: 162-000003)

Tim Zboya or a trained individual designated by Tim Zboya will be responsible for taking the smear samples from the source holders.

10.5 Lock-out procedures

Standard "lock-out" procedures are available for personnel at the control centre for each location which has a device.

10.6 Performance of services

Not applicable

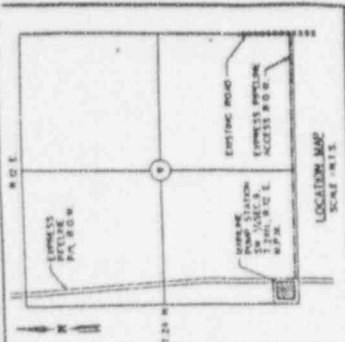
Item 11. - Waste management.

All radioactive material will be returned to the manufacturer or transferred to a licensee specifically authorised to possess the radioactive material.

Item 12. - License Fees

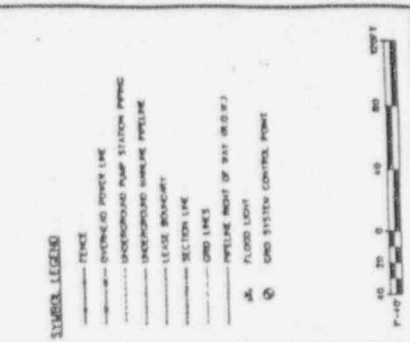
A cheque payable to the *United States Nuclear Regulatory Commission* for the amount of \$550.00 US dollars has been enclosed with this application.

4 6 6 2 8 4



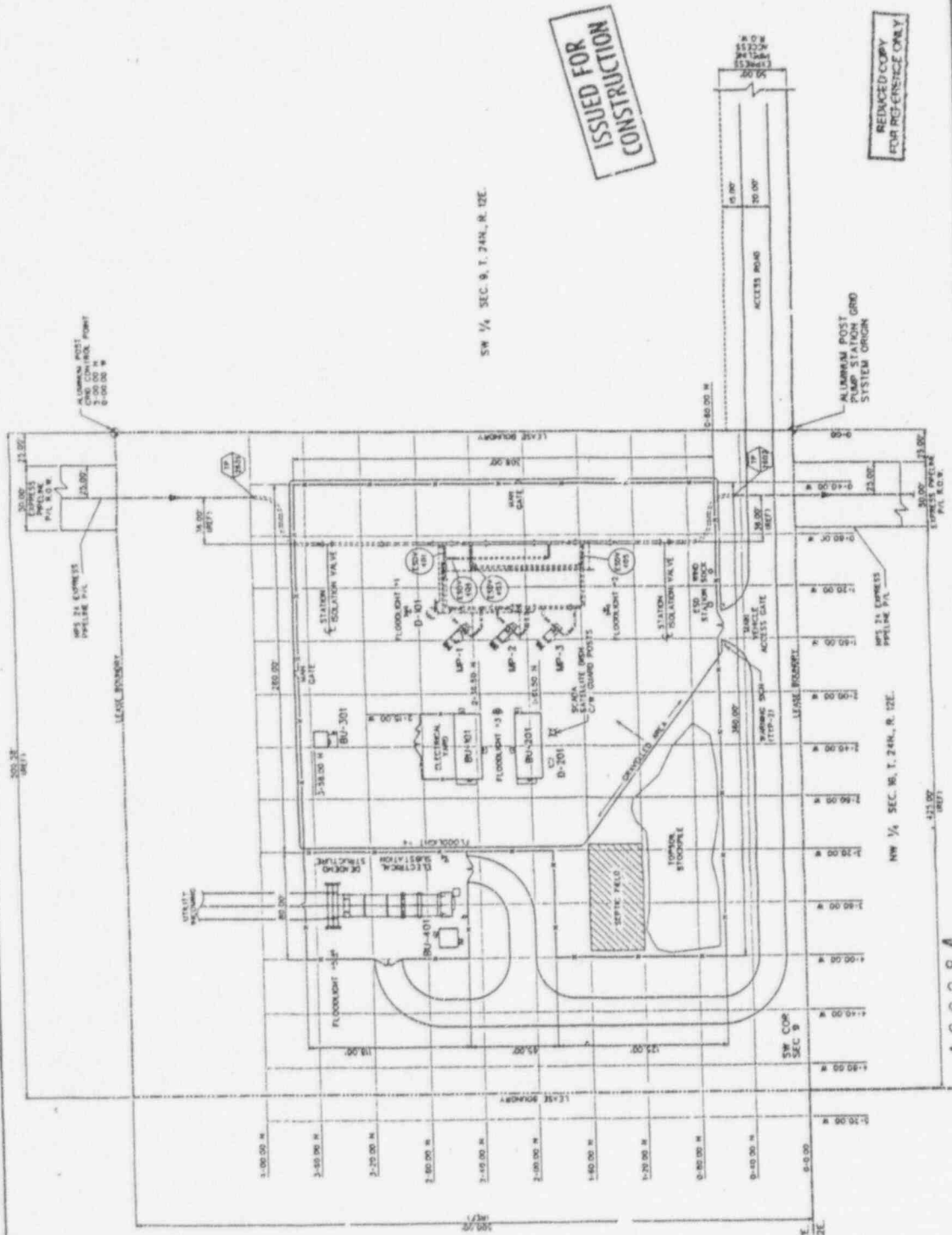
TAC	DESCRIPTION
BU-01	ELECTRIC BUILDING
BU-101	CONTROL OFFICE BUILDING
BU-201	COLD STORAGE BUILDING
BU-401	SUBSTATION RELAY BUILDING
D-01	50% SLIP TANK
D-201	50% SERVICE TANK
MP-1	MAINLINE PUMP
MP-2	MAINLINE PUMP
MP-3	FUTURE MAINLINE PUMP

NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.



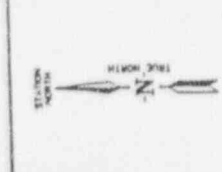
Express Pipeline
EAGLE BUTTES PUMP STATION
MAINLINE PUMP STATION
PLOT PLAN, R.12 E. M.P.M.
SEC. 9, T.24 N., R.12 E. M.P.M.
(MONTANA)
SCALE: 1"=100'
D-426-M1-001

DATE: Aug 20, 1998 01:10 PM

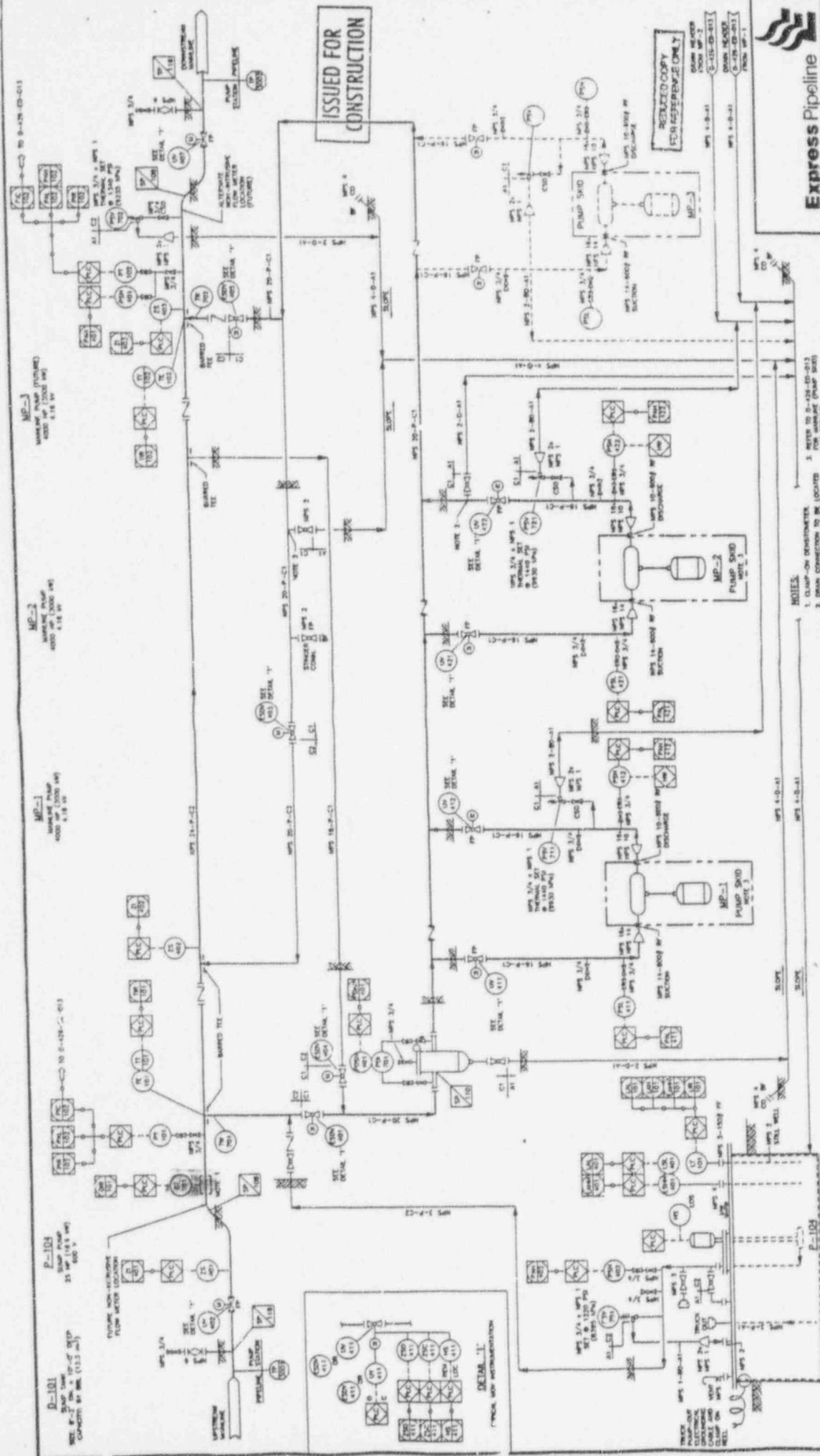


ENGINEERING RECORD	
DATE	08-01-98
DESIGNED	W.B.
CHECKED	C.D.
APPROVED	A.
BY	08/01/98

Quantel Engineering VECO ENGINEERING
466284
SW 1/4 SEC. 9, T. 24N., R. 12E.
NW 1/4 SEC. 9, T. 24N., R. 12E.



SE 1/4 SEC. 9, T. 24N., R. 12E.
NE 1/4 SEC. 17, T. 24N., R. 12E.



Quantel Engineering

VECO ENGINEERING

1. CLAMP-ON TRANSDUCERS
2. DRAW CONNECTION TO BE LOCATED FOR WAREHOUSE (PUMP SCHED)
3. DRAW CONNECTION TO BE LOCATED FOR WAREHOUSE (PUMP SCHED)

NOTES:

1. CLAMP-ON TRANSDUCERS
2. DRAW CONNECTION TO BE LOCATED FOR WAREHOUSE (PUMP SCHED)
3. DRAW CONNECTION TO BE LOCATED FOR WAREHOUSE (PUMP SCHED)

Express Pipeline

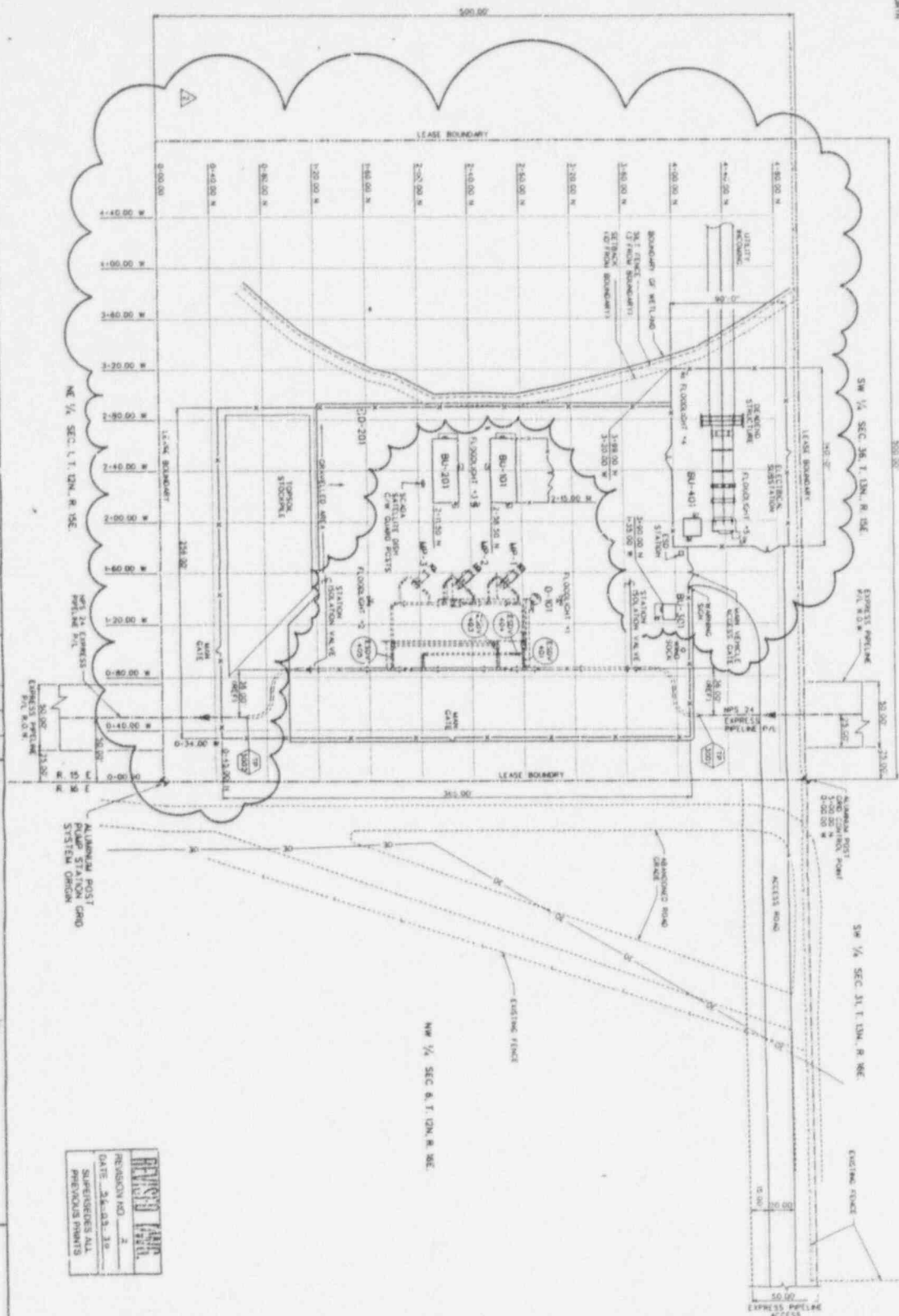
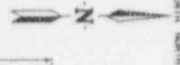
EAGLE BUTTES PUMP STATION

MAINLINE PUMPS & PIPING INSTRUMENTATION DIAGRAM

DATE: 10-10-10
REV: 1
BY: J. D. SMITH
CHKD: J. D. SMITH
APPD: J. D. SMITH
DATE: 10-10-10

SCALE: 1/8" = 1'-0"

PROJECT: D-426-E0-012



REVIEWED
DATE: 06-03-20
SUPERVISOR'S ALL
PREVIOUS PRINTS

NO.	DESCRIPTION	DATE	BY
1	DESIGNED AS NOTED	06-03-20	W.E.
2	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
3	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
4	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
5	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
6	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
7	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
8	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
9	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
10	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.

Quantel Engineering
VECO ENGINEERING

STATION
STRAW PUMP STATION

PROJECT NO. 06-03-20

NO.	DESCRIPTION	DATE	BY
1	DESIGNED AS NOTED	06-03-20	W.E.
2	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
3	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
4	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
5	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
6	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
7	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
8	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
9	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.
10	DESIGNED FOR CONSTRUCTION	06-03-20	W.E.

Express Pipeline

STRAW PUMP STATION

MAINLINE PUMP STATION
PLOT PLAN
SEC. 1, T. 12N, R. 15E, M.P.M.
(MONTANA)

PROJECT NO. 06-03-20

SYMBOL LEGEND

- POWER LINE
- UNDERGROUND POWER LINE
- UNDERGROUND PUMP STATION PIPING
- UNDERGROUND UNDER PIPING
- LEASE BOUNDARY
- DRAIN LINE
- SECTION LINE
- PRELIMINARY POINT OF VIEW (P.O.V.)
- FLOOD LIGHT
- ONE SYSTEM CORNER POINT

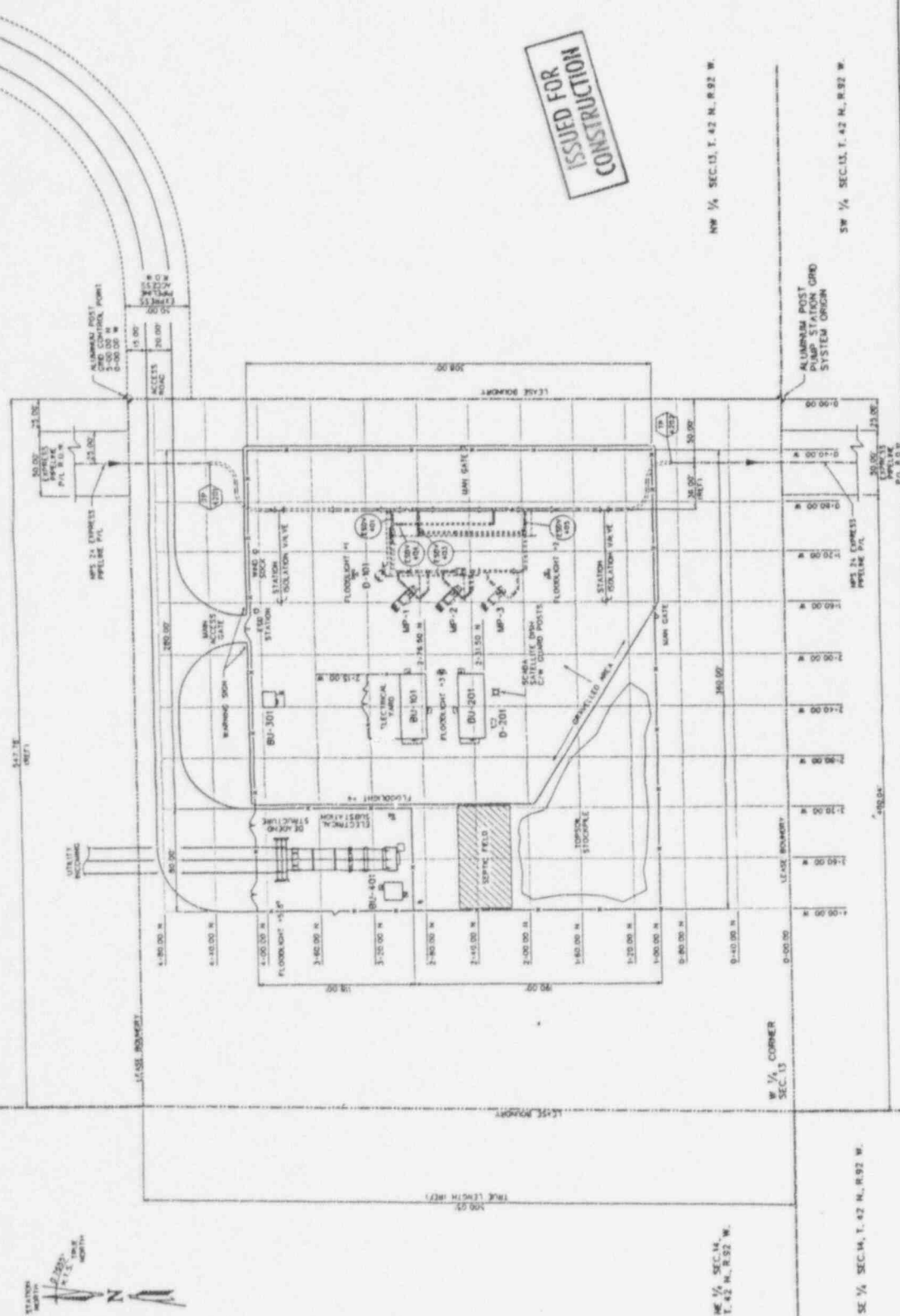
NOTES

1. ALL DIMENSIONS CO-ORDINATES ARE IN FEET UNLESS NOTED OTHERWISE.

NO.	DESCRIPTION
BU-01	ELECTRIC BUILDING
BU-02	CONTROL-OFFICE BUILDING
BU-03	COLD STORAGE BUILDING
BU-04	SUBSTATION DELAY BUILDING
BU-05	UNDERGROUND PUMP TANK
BU-06	UNDERGROUND STORAGE TANK
BU-07	WATER PUMP
BU-08	WATER PUMP
BU-09	FUTURE WATERSIDE PUMP



NO.	DESCRIPTION
1	EXPRESS PIPELINE
2	EXPRESS PIPELINE
3	EXPRESS PIPELINE
4	EXPRESS PIPELINE
5	EXPRESS PIPELINE
6	EXPRESS PIPELINE
7	EXPRESS PIPELINE
8	EXPRESS PIPELINE
9	EXPRESS PIPELINE
10	EXPRESS PIPELINE



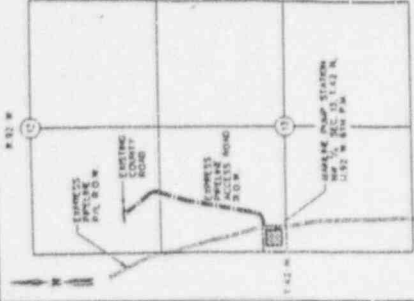
ISSUED FOR
CONSTRUCTION

NW 1/4 SEC. 13, T. 42 N., R. 92 W.

SW 1/4 SEC. 13, T. 42 N., R. 92 W.

NE 1/4 SEC. 14,
T. 42 N., R. 92 W.

SE 1/4 SEC. 14, T. 42 N., R. 92 W.



LOCATION MAP
SCALE: 1" = 1/2 MI.

DESCRIPTION

TAG	DESCRIPTION
BU-101	ELECTRICAL BUILDING
BU-201	CONTROL/OFFICE BUILDING
BU-301	COLD STORAGE BUILDING
BU-401	SUBSTATION RELAY BUILDING
D-101	100,000 GPM TANK
D-201	100,000 GPM TANK
D-301	100,000 GPM TANK
D-401	100,000 GPM TANK
MP-1	MAINLINE PUMP
MP-2	MAINLINE PUMP
MP-3	MAINLINE PUMP
MP-5	FUTURE MAINLINE PUMP

NOTES:
1. ALL DIMENSIONS/COORDINATES ARE IN FEET UNLESS NOTED OTHERWISE.

SYMBOL LEGEND

- FENCE
- UNDERGROUND PUMP STATION PIPING
- UNDERGROUND MAINLINE PIPELINE
- LEASE BOUNDARY
- GROUND LINES
- SECTION LINE
- PIPELINE RIGHT OF WAY BOUNDARY
- FLOOD LIGHT
- GROUND SYSTEM CONTROL POINT



REDUCED COPY
FOR REFERENCE ONLY

Express Pipeline

LOCATION: KIRBY CREEK PUMP STATION
TITLE: MAINLINE PUMP STATION
PILOT PLAN
SEC. 13, T. 42 N., R. 92 W. 6th P.M.
(WYOMING)
SCALE: 1" = 1/2 MI.
DATE: 08-01-25
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

Quantel Engineering




VECO ENGINEERING

NO.	DATE	DESCRIPTION
1	08-01-25	ISSUED FOR CONSTRUCTION
2	08-01-25	ISSUED FOR TAKEN
3	08-01-25	ISSUED FOR APPROVAL
4	08-01-25	ISSUED FOR CLIENT REVIEW
5	08-01-25	PRELIMINARY

REVISION RECORD

DATE: 08-01-25
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

ISSUED FOR CONSTRUCTION



REDUCED COPY
FOR REFERENCE ONLY

LOCATION
KIRBY CREEK PUMP STATION

TITLE
MAINLINE PUMPS & PIPING
PIPING & INSTRUMENTATION
DIAGRAM

DATE	30-08-18
DRAWN	WJS
CHECKED	WJS
APPROVED	WJS
DATE	30-08-18

SCALE
WJS

PROJECT NO
D-442-E0-012

Quantel Engineering										VECO ENGINEERING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													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