

HOUSTON LIGHTING AND POWER COMPANY
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
PLANT PROCEDURES MANUAL

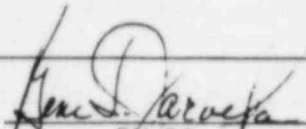
FOR INFORMATION ONLY

NON SAFETY-RELATED

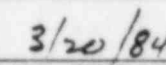
Radiological Emergency
Team Actions & Responsibilities

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APPROVED:


DM/DS


DATE APPROVED


DATE EFFECTIVE

This procedure is not described in the FSAR.
Field changes to this procedure must be approved by Radiological Services.

1.0 Purpose and Scope

- 1.1 This procedure provides guidance to HL&P Radiological Services Division personnel for response to notification, either directly from the affected facility or by HL&P dispatcher, of abnormal or emergency conditions involving radioactive material. This guidance covers Radiological Services activities from initial notification to final release of the facility to normal status.
- 1.2 This procedure shall apply to all HL&P facilities. HL&P nuclear power plants shall be within the scope of this procedure until commercial operation, at which time the particular plant emergency procedures become effective.
- 1.3 This procedure sets forth general recommendations for handling abnormal or emergency conditions. In providing the guidance for a broad range of abnormal or emergency occurrences, it should be recognized that specific conditions may involve weighing relative hazards and making on-the-spot judgments regarding alternatives in a relatively short span of time. In most instances, however, the sequence of actions described in Section 5.0 should apply.

2.0 Definitions

- 2.1 EMERGENCY: For the purpose of this procedure, emergency is defined as a situation where the radioactive material's container (source holder) integrity is in doubt. (i.e., Following an explosion, fire, lightning.)
- 2.2 HEALTH PHYSICIST: Personnel, other than a trainee, in Radiological Services, that is engaged in the study of the problems and practices of providing radiation protection.



3.0 Procedure

- 3.1 Initial action upon notification: (See Addendum 1 for emergency action and response general flow diagram.)

3.1.1 The Radiological Services representative who first receives notification of a radiological emergency condition shall be the acting Radiological Emergency Team leader (RET) until relieved by a more senior health physicist. The RET leader is responsible for the following immediate actions:

- 3.1.1.1 He shall obtain and document all information supplied by the notifying party. The RET leader is responsible for requesting any additional information which may aid in evaluating the extent of the emergency. (The information may be secured from the dispatcher, but it is preferable to communicate with someone at the emergency scene.)

NOTE: THE RADIOLOGICAL EMERGENCY CALL NUMBER (HL&P DISPATCHER) is (713) 659-1678. THE MINIMUM INFORMATION WHICH IS TO BE OBTAINED FROM THE NOTIFYING PARTY IS DESCRIBED BELOW.

- a. Name of caller and phone number where he/she can be reached if more information is needed.
 - b. Exact location of emergency.
 - c. Approximate time the emergency was discovered.
 - d. Conditions which indicate that an emergency exists (broken or damaged source, possible personnel exposure, etc.)
 - e. Description of any actions that have been taken to protect persons or property or to aid injured persons.
- 3.1.1.2 The RET leader shall suggest to the calling party any immediate actions deemed necessary to protect people or property at the emergency scene until radiological emergency assistance arrives.

NOTE: IN MANY INSTANCES, THE MOST APPROPRIATE ACTIONS WILL BE "STAY WHERE YOU ARE; KEEP PERSONS NOT ALREADY INVOLVED OUT OF THE AREA, AND DO NOT DO ANYTHING UNTIL ASSISTANCE ARRIVES."

- 3.1.1.3 The RET leader shall secure the aid of a second health physicist and shall, with his assistance, ensure that actions are taken which will:
 - a. Equip and deploy a Radiological Emergency Team to the emergency scene as soon as possible.
 - b. Maintain communication with the emergency scene until RET personnel arrive.

3.2 Equipment

- 3.2.1 Radiological Services personnel designated to secure emergency kits and instrumentation shall:
 - 3.2.1.1 Visually inspect each kit for completeness.
 - 3.2.1.2 Operationally check instrumentation to be transported for battery condition, response to radiation and calibration. (One CD instrument which has a built-in check source should be included with emergency instrumentation.)
 - 3.2.1.3 Sign out equipment to be taken in appropriate equipment log books.

3.3 Action at the Emergency Scene

- 3.3.1 The first member of the Radiological Emergency Team to arrive at the scene shall direct radiological safety activities until relieved.
- 3.3.2 The Radiological Emergency Team (RET) is responsible for providing support to appropriate HL&P Emergency Groups for the:
 - 3.3.2.1 Identification and assessment of radiologically significant problems.
 - 3.3.2.2 Taking such actions as are necessary to control the problems.

- 3.3.2.3 Establishing communications to ensure that:
 - 3.3.2.3.1 Outside help (medical, etc.) is secured if required.
 - 3.3.2.3.2 HL&P Management is appraised of the conditions.
 - 3.3.2.4 Assisting as necessary in the preparation of a Radiological Incident Report to provide documentation of the event.
 - 3.3.2.5 Ensuring that personnel radiation exposure is maintained as low as reasonably achievable.
- 3.3.3 In general, the methods for controlling a radiological emergency include:
 - 3.3.3.1 Receive briefing by eye witnesses or others having direct knowledge of the discovery and development of the emergency situation.
 - 3.3.3.2 Perform surveys to determine the magnitude of the radiological problems and determine the extent of the areas actually or potentially affected.
 - 3.3.3.3 Direct the actions of persons in the area of the emergency such that their risk of exposure to radiation or radioactive material is minimized.
 - 3.3.3.4 Advise and support the implementation of a plan for corrective action. The objective of this plan is to utilize the best available means of achieving control of the situation.
 - 3.3.3.4.1 If a sealed source has been breached, or if a radioactive material spill has occurred, efforts should be directed toward containing the material in a safe, shielded configuration in a manner that will not contribute to the spread of contamination or further release of radioactive material (See Addendum 4). Temporary methods used to successfully contain high levels of contamination in field situations are: Covering with plastic, sand (shielding), water, oil, cleaning compounds (solid or liquid), etc. When using liquids to restrict dispersion of radioactive

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materials, runoff problems must be addressed.

- 3.3.3.4.2 When source shielding alone is breached, the source should be returned to an adequately shielded configuration.
- 3.3.3.5 When the emergency is controlled and stable, standard health physics procedures should be employed in further actions and assessments.
 - 3.3.3.5.1 Sealed radioactive source(s) which are to remain in service and which may have been affected in the emergency must pass a final leak test to verify the integrity of containment in accordance with HL&P radiation protection procedures.
- 3.3.3.6 Radiological Services personnel under the guidance of the RSO must document the emergency response. Abnormal conditions involving radioactive materials will be noted in accordance with PGP3-ZR-04 (Radiological Incident Reporting).
- 3.3.3.7 Specific documentation required is limited to that which is necessary to develop reports under Section 3.3.3.6 above; however, all survey sheets, calculations, etc., used to assess radiological conditions shall be attached to the Radiological Incident Report.

4.0 References

- 4.1 Radiological Health Handbook, U.S. Dept. HEW, Public Health Service, Pub. No. 2016, Jan. 1970
- 4.2 PGP3-ZR-04 (Radiological Incident Reporting)
- 4.3 PGP3-ZR-12 (Radioactive Material Control Program)
- 4.4 Texas Regulations for Control of Radiation

5.0 Support Documents

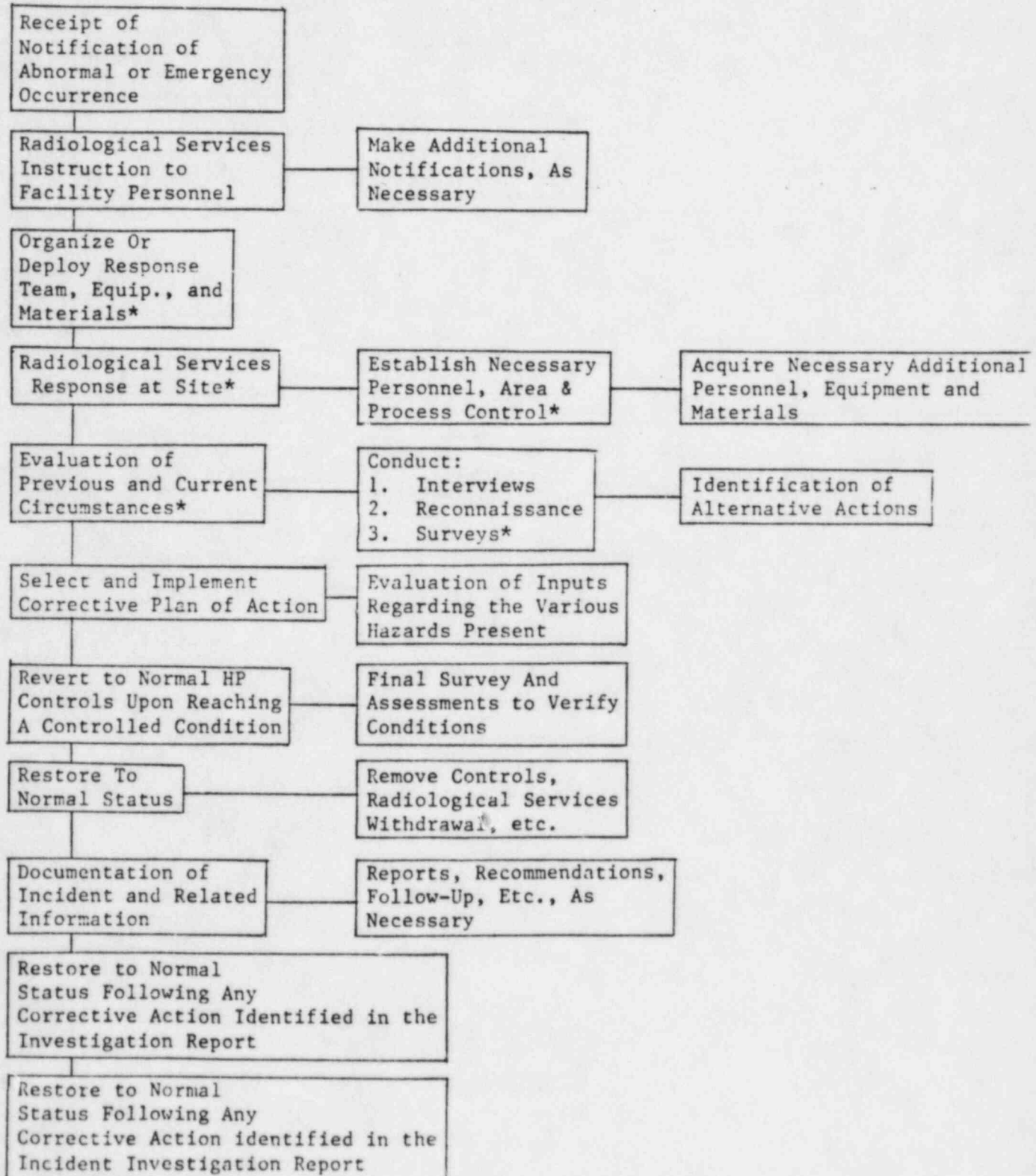
- 5.1 Addendum 1 - Radiological Services Personnel Response to Abnormal Occurrences Involving Radioactive Material

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- 5.2 Addendum 2 - Radiological Services Emergency Response Kit Inventory List
- 5.3 Addendum 3 - Radiological Services Emergency Instrument Kit Inventory List
- 5.4 Addendum 4 - Pipeline Monitor Location Map
- 5.5 Addendum 5 - Direction Map to the Various Facilities
- 5.6 Addendum 6 - HL&P Licensed Radioactive Material Sealed Source Index, Location, and Use Listing

ADDENDUM 1
RADIOLOGICAL SERVICES PERSONNEL RESPONSE TO ABNORMAL
OCCURRENCES INVOLVING RADIOACTIVE MATERIAL



*Denotes actions which should be taken immediately, where possible.

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ADDENDUM 2
RADIOLOGICAL SERVICES EMERGENCY RESPONSE KIT INVENTORY LIST
(CANVAS BAG)

| | |
|-----------|---|
| 2 cans | Rad-Con Surface Cleaner |
| 6 Pair | Medium or Heavy Latex Gloves |
| 100 yards | Warning Rope or Nylon Warning Tape |
| 6 each | Warning Signs (with associated inserts) |
| 4 boxes | Swipe Papers |
| 1 box | Air Sample Filter Papers (50 mm diameter) |
| 2 cans | Rad-Con Hand Cleaner |
| 1 pair | 12" Nip Tongs |
| 12 each | 50 Gal. Poly Bags |
| 50 each | Small Zip-Loc Bags (sample collection) |
| 20 each | Cubitainers (sample collection) |
| 2 each | Full Face Particulate Filter/Respirator |
| 1 pint | Isopropyl (rubbing) Alcohol |
| 1 box | Wiping Rags (cloth or textured paper) |
| 2 sets | Full Anti-Contamination Clothing, Complete Sets (Coveralls, Hoods, Booties, and Rubber Shoe Covers) |
| 2 rolls | 2" Masking Tape |
| 1 roll | Rad Warning Tape (adhesive backing) |
| 1 each | Clip board |
| 1 roll | 2" Duct Tape |
| 12 each | Radioactive Material Tags |
| 3 each | Marking Pens |
| 2 each | Flashlights with Batteries |

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ADDENDUM 2 (CONT.)
RADIOLOGICAL SERVICES EMERGENCY RESPONSE KIT INVENTORY LIST
(CANVAS BAG)

6 each Large Plastic Sheets

1 each Note Pad

1 box Nasal Swabs (Q-tip or equivalent) with Containers

Area Survey Sheets (showing source location details)

Radiological Services Forms (Log sheets, Radiation Incident Forms, etc.)

Personnel Dosimetry: 6 TLDs, 6 Self Readers (0-200 mR Range) and 1 Self Reader Charger with Battery

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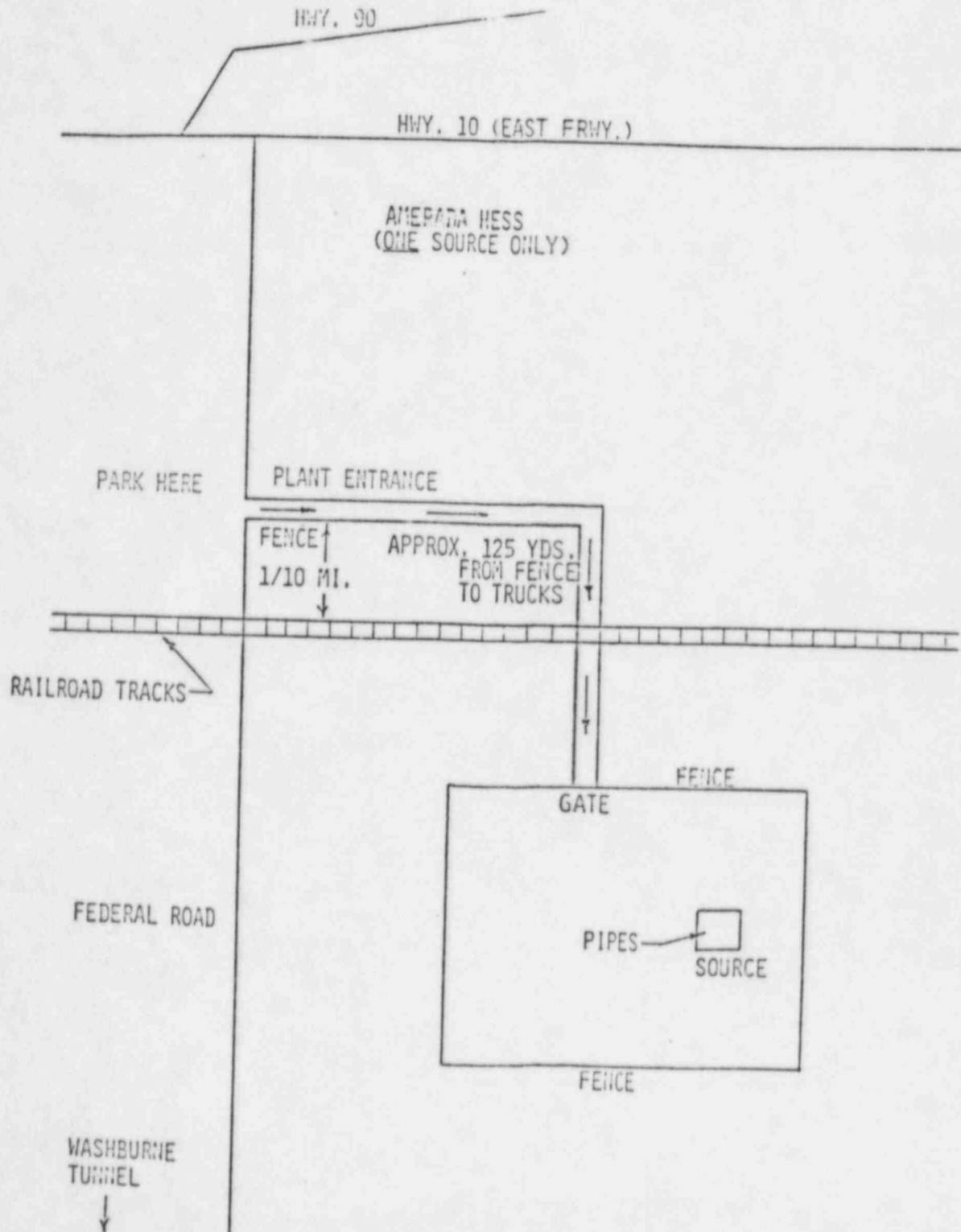
ADDENDUM 3
RADIOLOGICAL SERVICES EMERGENCY INSTRUMENT KIT INVENTORY LIST

- 1 - Eberline E-530 GM Survey Meter (or equivalent low range, or instrument)
- 1 - Eberline PIC-6A or Teletector (or equivalent high range survey instrument)
- 1 - Eberline HP-270 Energy Compensated Probe
- 1 - Eberline RM-14 Ratemeter (or equivalent)
- 1 - Eberline HP-210 Pancake Detector Probe (or equivalent)
- 1 - Eberline SH-4 Sample Holder (optional)
- 1 - RADeCO H-809V1 Adjustable Hi-Vol Air Sampler (or equivalent)
- 2 - 50 Foot Extension Cords

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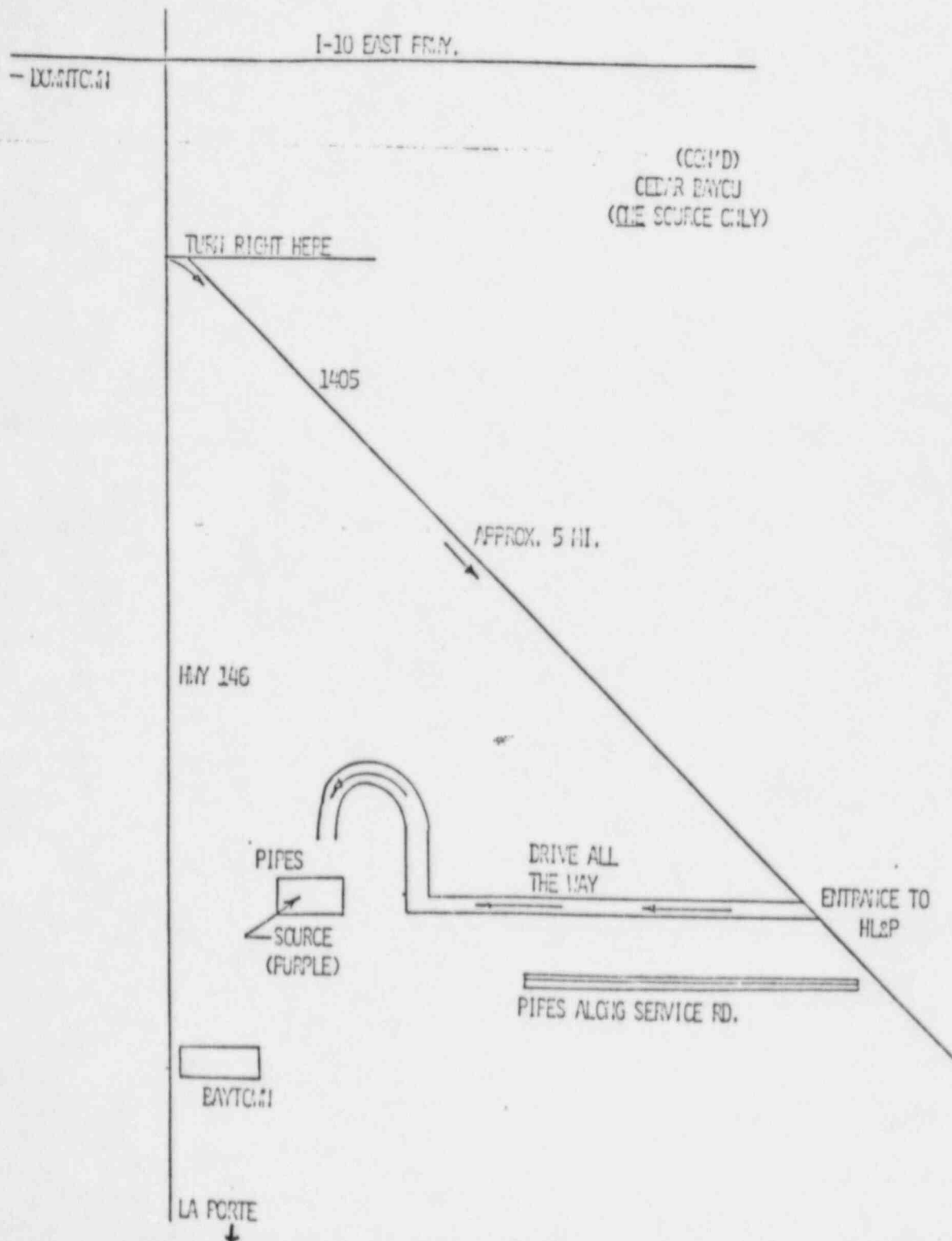
ADDENDUM 4
MONITOR LOCATION MAP



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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

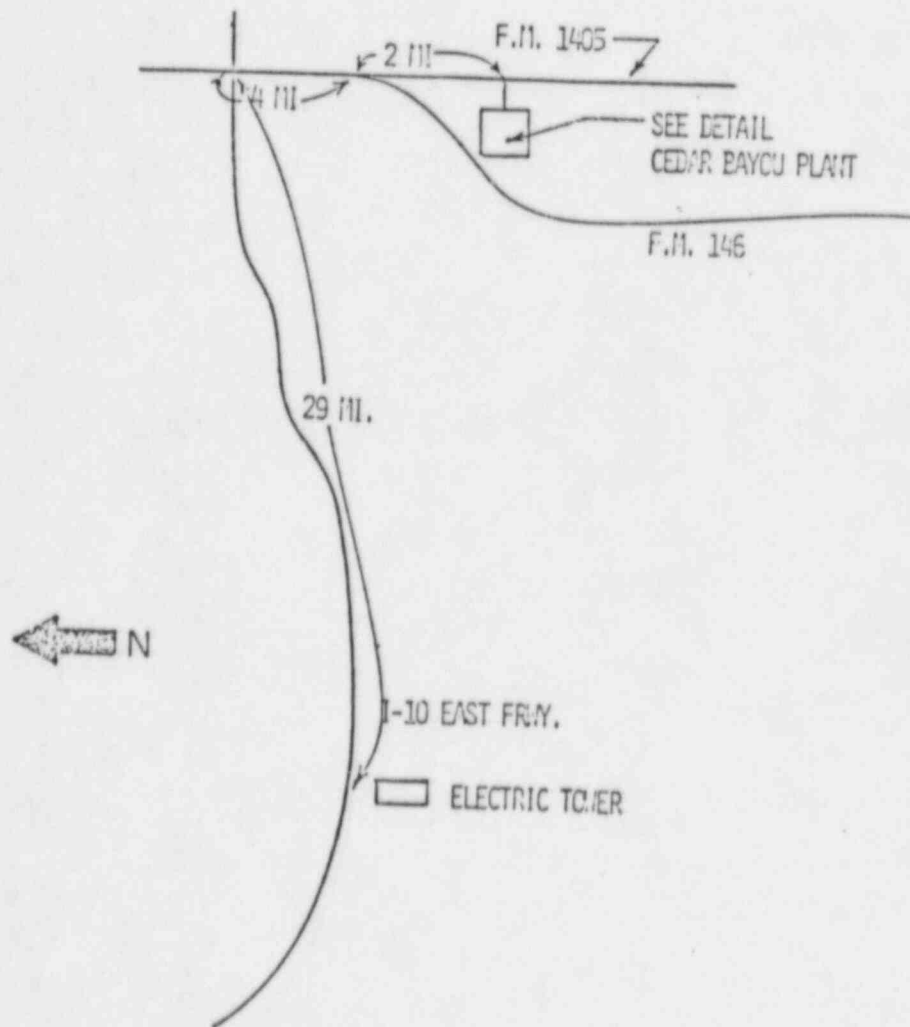


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

LOCATION - WALKER RD.
COUNTY - CHAMBERS

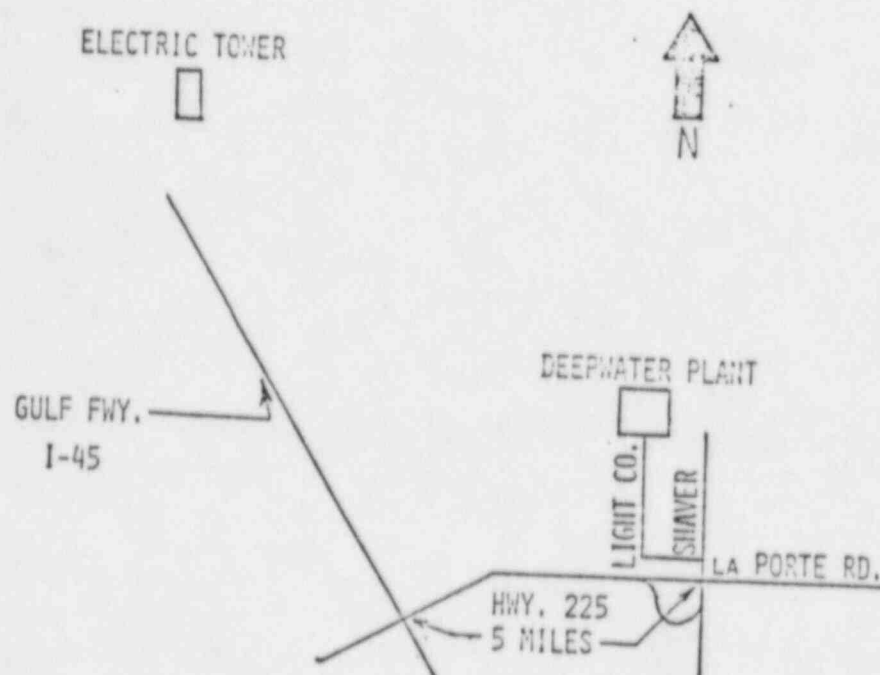


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

LOCATION-LIGHT CO. RD.
COUNTY-HARRIS

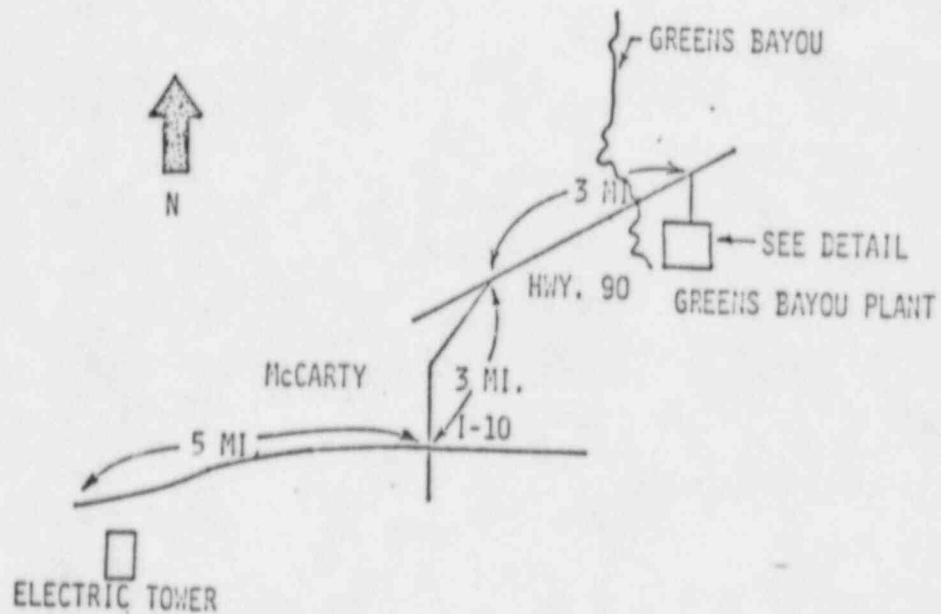


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

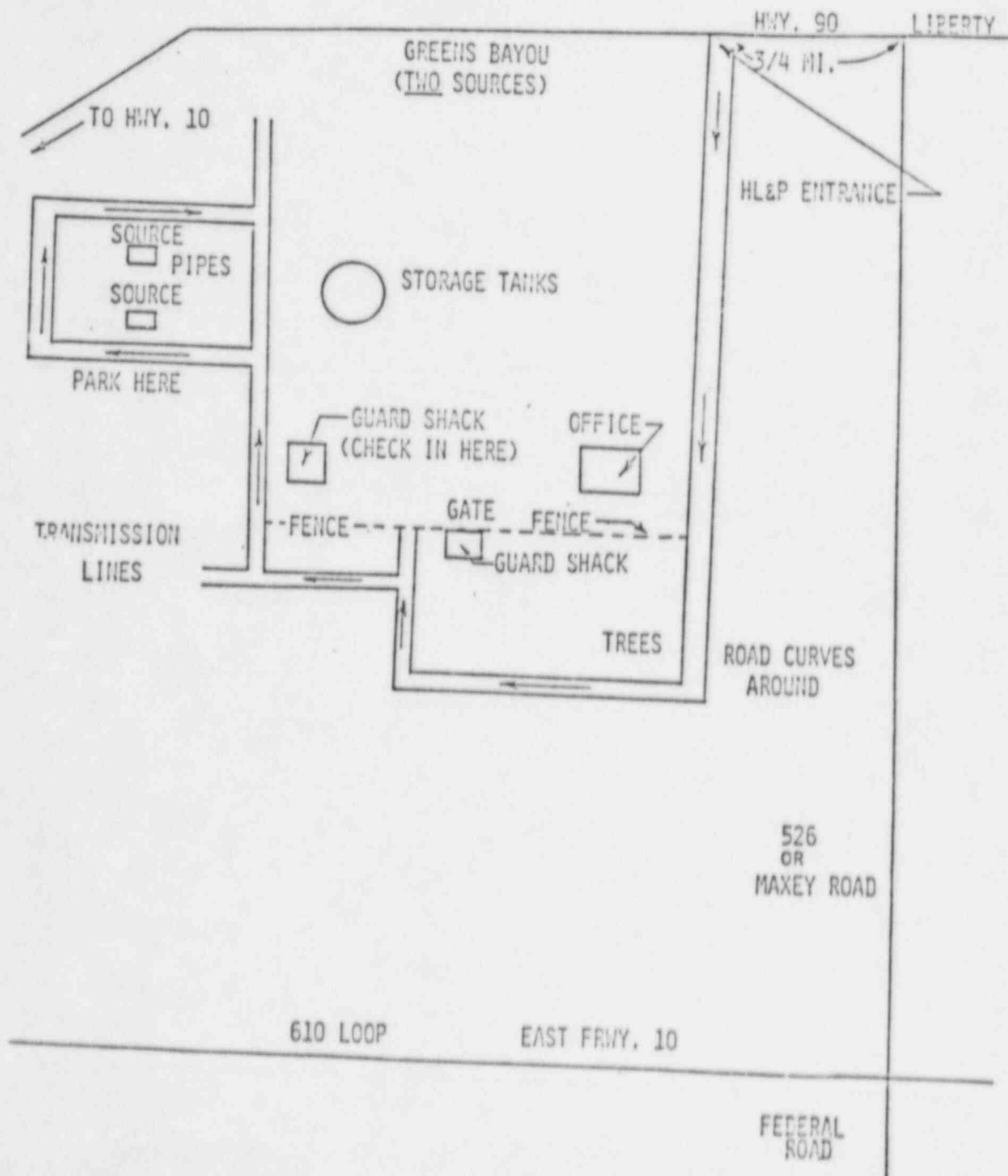
LOCATION-U.S. HWY. 90
COUNTY-HARRIS



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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

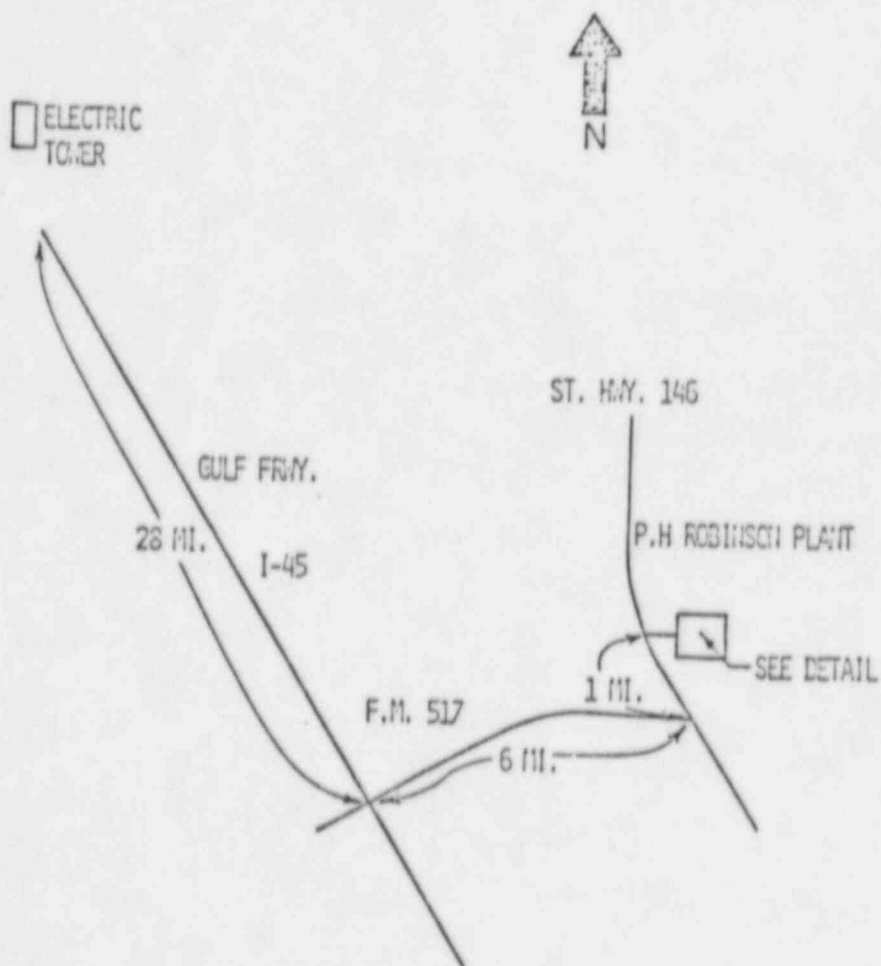


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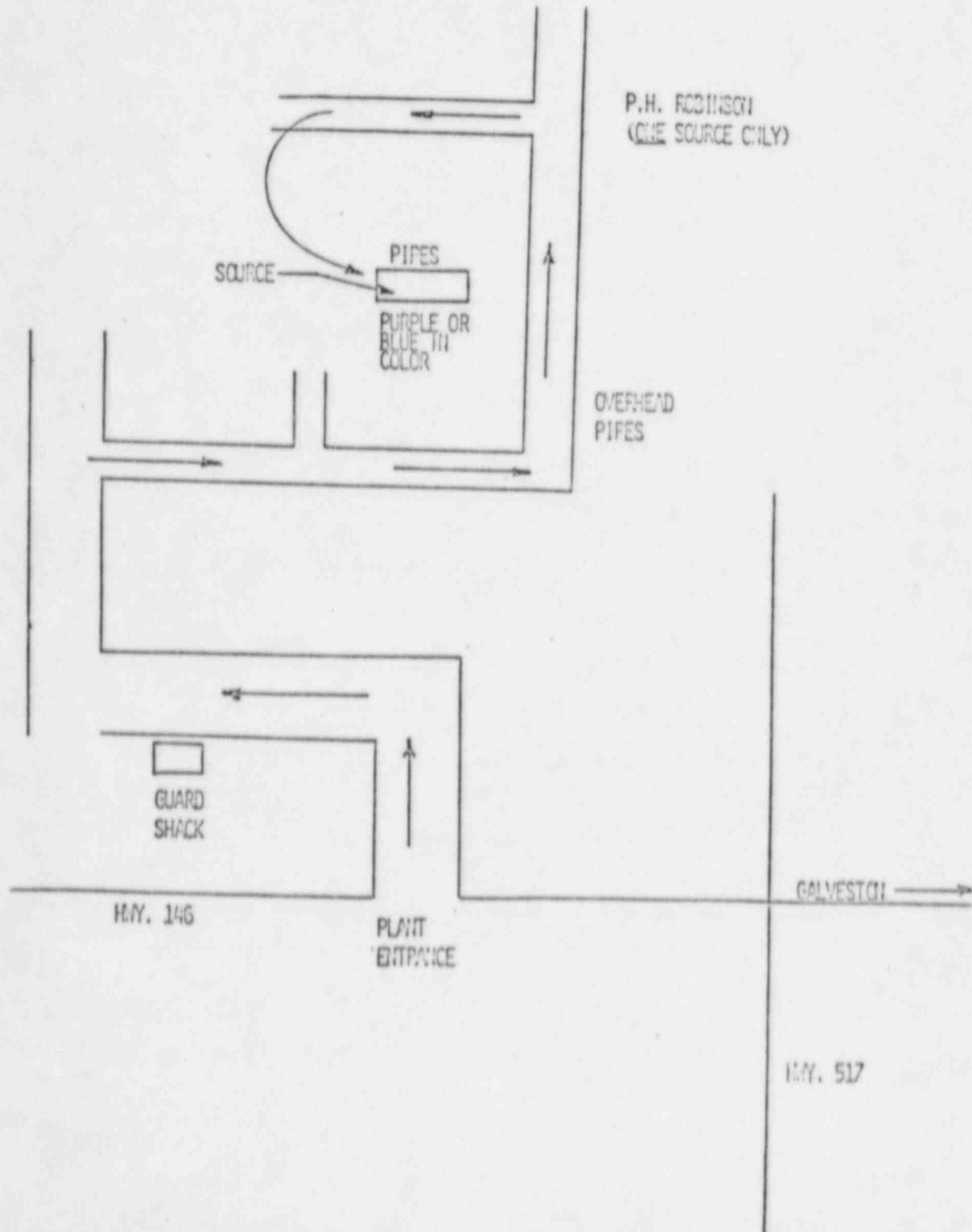
ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

LOCATION - ST H.W. 140
COUNTY - GALVESTON



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E.N. 517

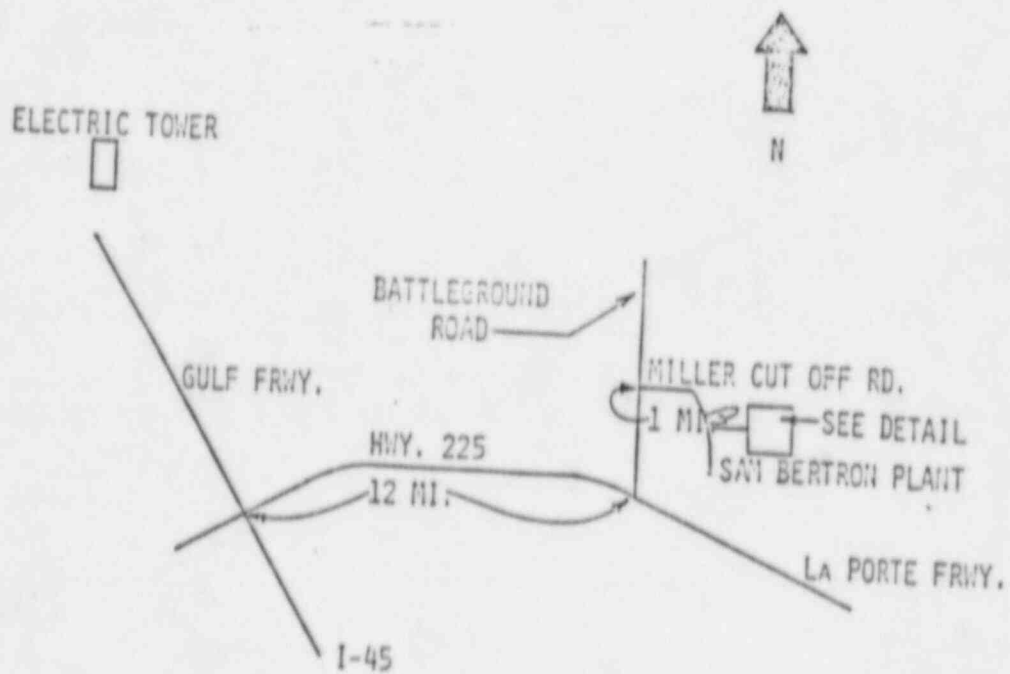


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

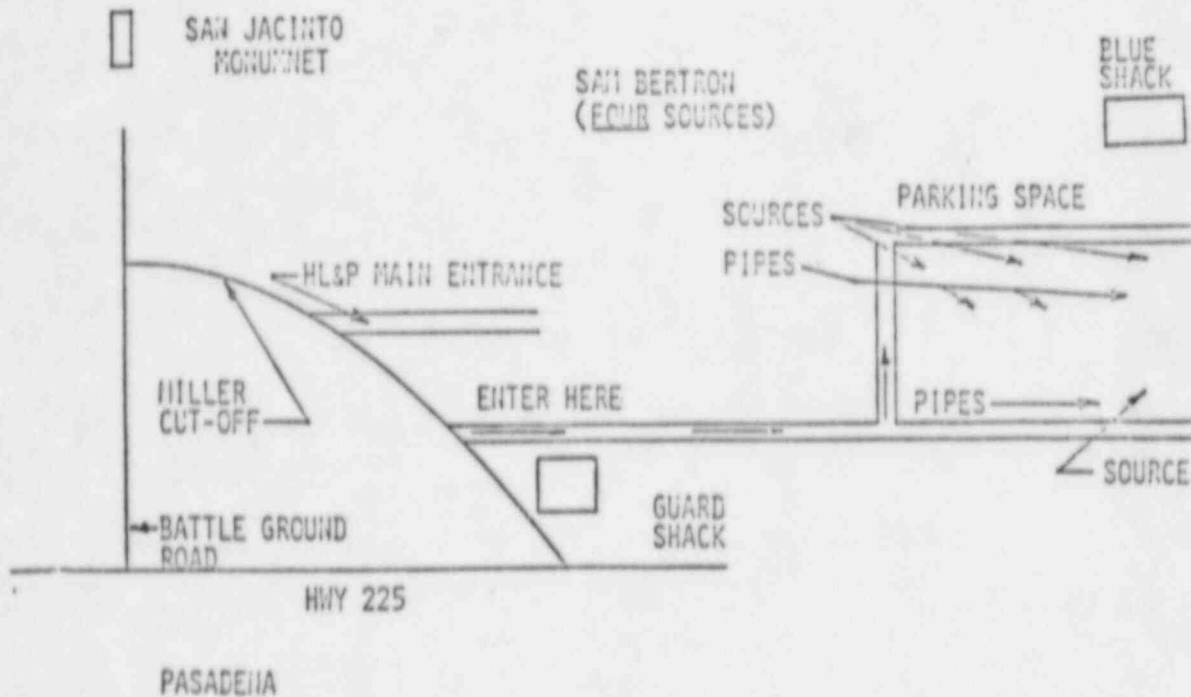
LOCATION-MILLER CUT OFF RD.
COUNTY-HARRIS



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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

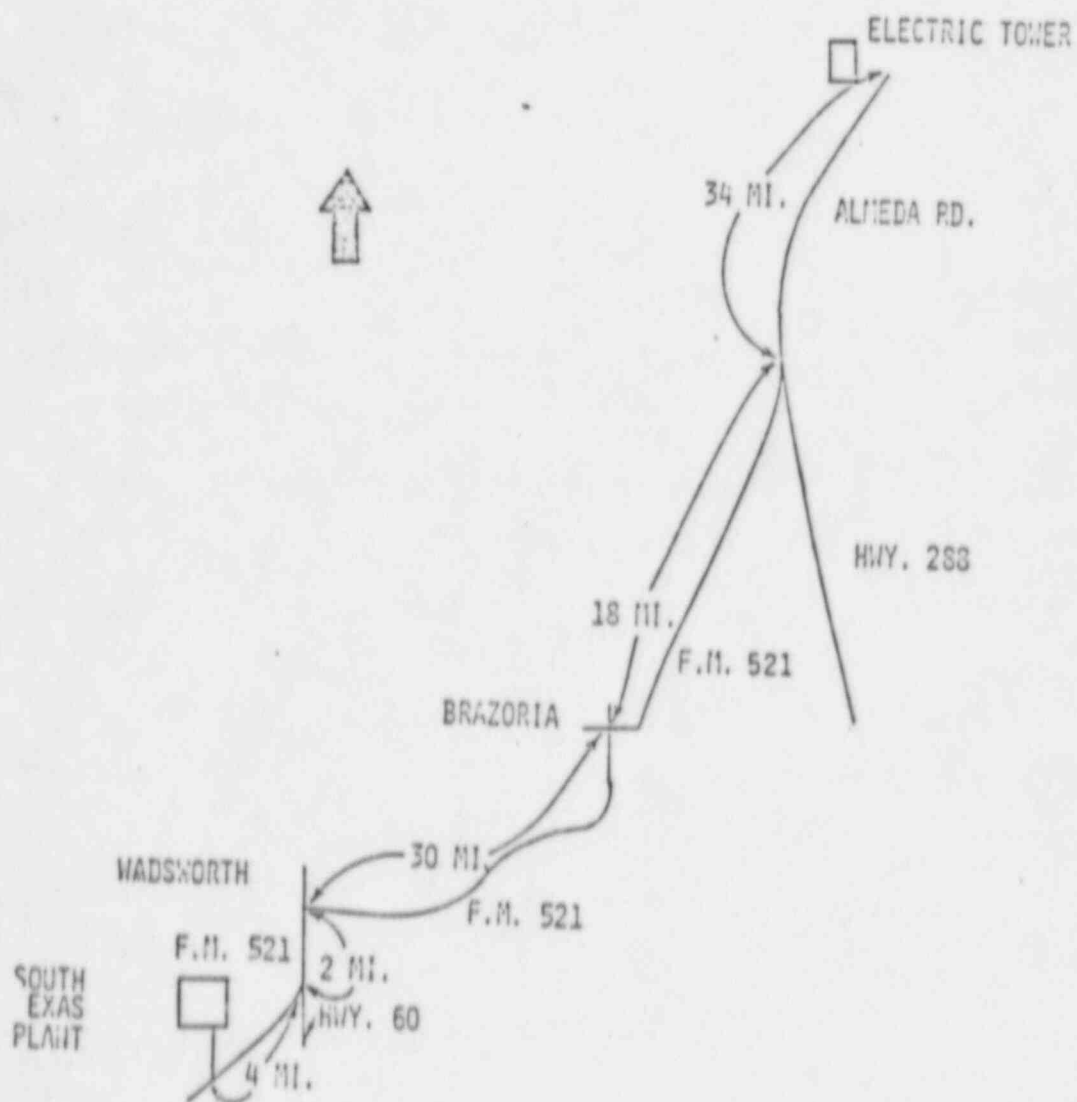


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

LOCATION - F.M. 521
COUNTY - MATAGORDA

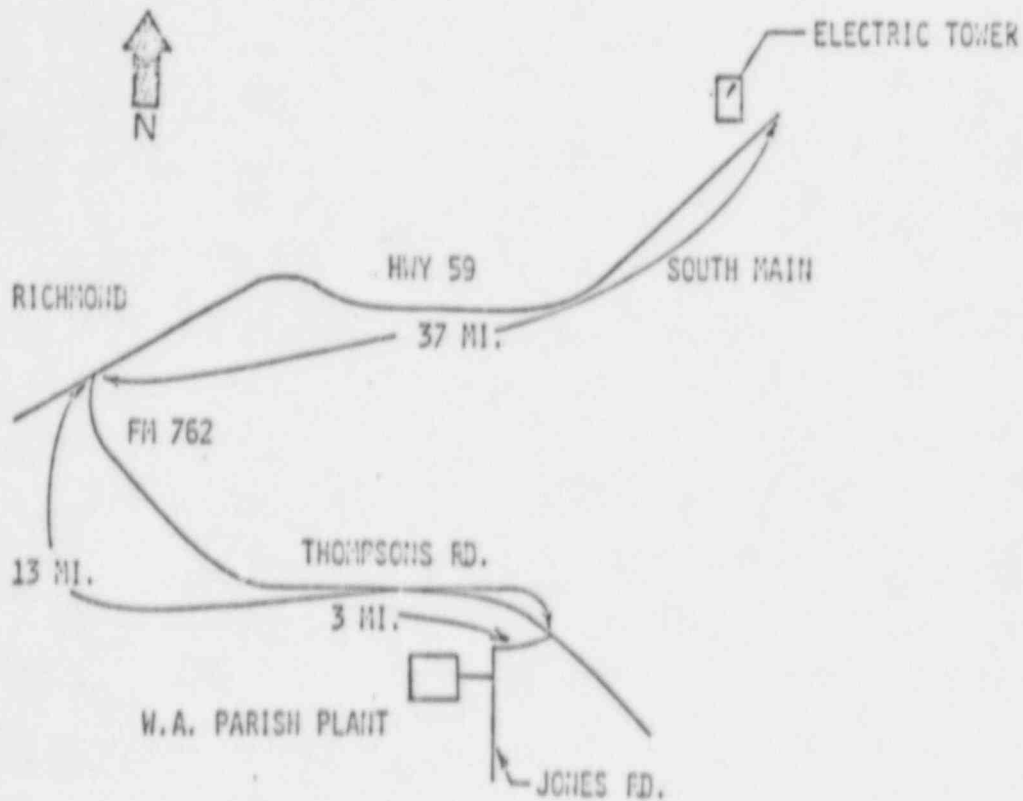


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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP

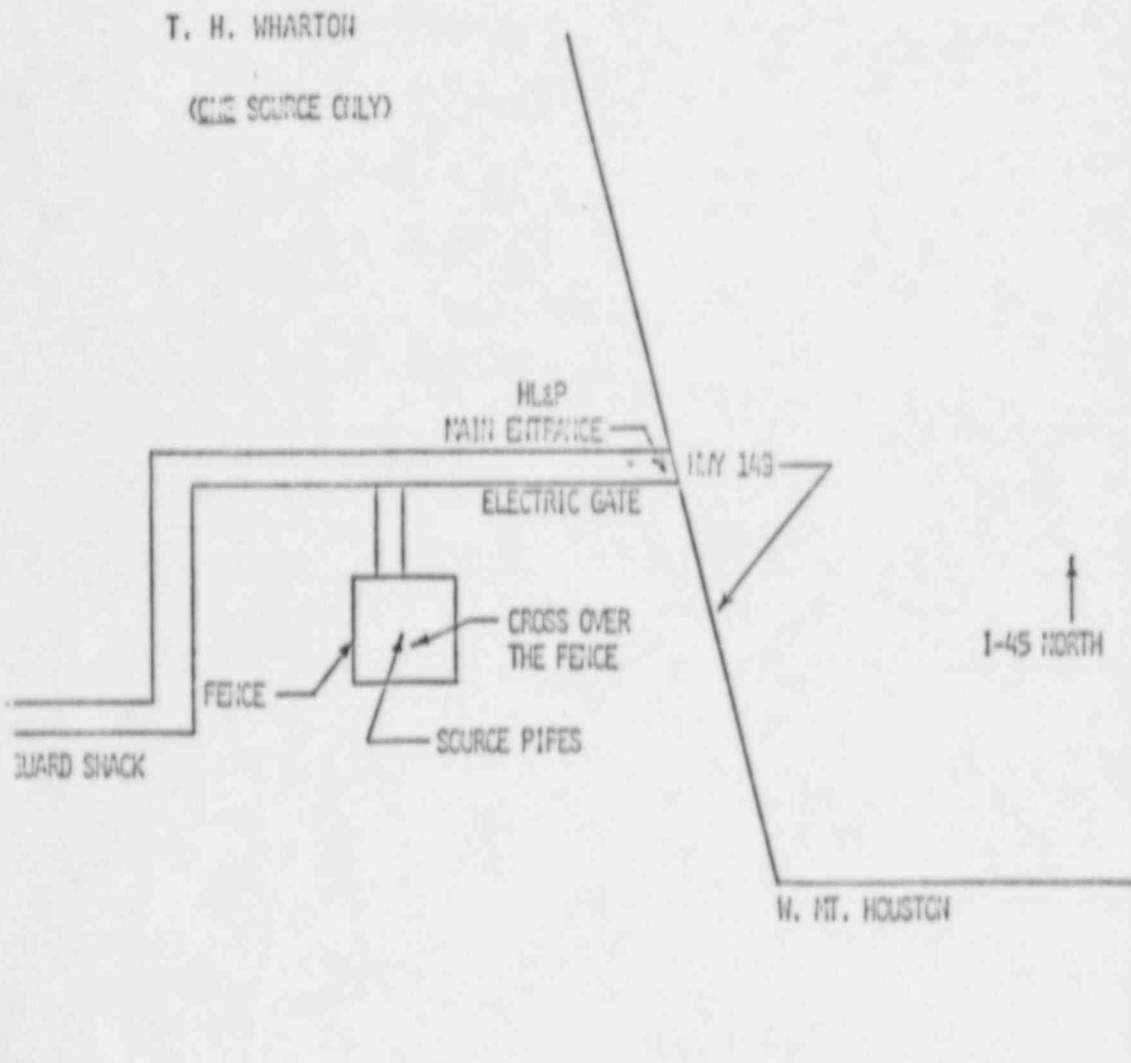
LOCATION - Y.H. JONES RD.
COUNTY - FORT BEND



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ADDENDUM 4 (CONT.)
MONITOR LOCATION MAP



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ADDENDUM 5
DIRECTION MAP TO THE VARIOUS FACILITIES

| FACILITY | TYPE OF FACILITY | GENERAL MAP | DETAILED FACILITY MAP |
|------------------|--------------------------|----------------|-----------------------------|
| 1. Deepwater | Gas & Oil Power Station | Yes | Yes |
| 2. Gable Street | Gas & Oil Power Station | Yes | No |
| 3. H.O. Clarke | Gas & Oil Power Station | Yes | No |
| 4. Greens Bayou | Gas & Oil Power Station | Yes | Yes |
| 5. Webster | Gas & Oil Power Station | Yes | No |
| 6. Sam Bertron | Gas & Oil Power Station | Yes | Yes |
| 7. W.A. Parish | Gas & Coal Power Station | Yes | No |
| 8. T.H. Wharton | Gas & Oil Power Station | Yes | Yes |
| 9. P.H. Robinson | Gas & Oil Power Station | Yes | Yes |
| 10. Cedar Bayou | Gas & Oil Power Station | Yes | Yes |
| 11. South Texas | Nuclear Power Station | Yes | No |
| 12. Armada Hess | Oil Injection Facility | No | Yes |

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ADDENDUM 6
HL&P LICENSED RADIOACTIVE MATERIAL
SEALED SOURCE INDEX, LOCATION, AND USE LISTING

| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-------------------|
| SE 1712 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1713 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1714 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1715 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1716 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1717 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1718 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1719 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1720 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1721 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1722 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1723 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1724 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1725 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1789 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1790 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1791 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1792 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1793 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |

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ADDENDUM 6
HL&P LICENSED RADIOACTIVE MATERIAL
SEALED SOURCE INDEX, LOCATION, AND USE LISTING

| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-------------------|
| SE 1712 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1713 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1714 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1715 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1716 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1717 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1718 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1719 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1720 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1721 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1722 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| FE 1723 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1724 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1725 | W.A. Parish | Cs-137 | 25 mCi | 5-16-78 | Stock Equip. | Coal Flow Monitor |
| SE 1789 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1790 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1791 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1792 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1793 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |

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ADDENDUM 6 (CONT.)
HL&P LICENSED RADIOACTIVE MATERIAL
SEALED SOURCE INDEX, LOCATION, AND USE LISTING

| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-------------------|
| SE 1794 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1795 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1796 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1797 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1798 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1799 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1800 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1801 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 1802 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2114 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2115 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2116 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2117 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2118 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2119 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2120 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2121 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2122 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2123 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2124 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |
| SE 2125 | W.A. Parish | Cs-137 | 25 mCi | | Stock Equip. | Coal Flow Monitor |

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ADDENDUM 6 (CONT.)
HL&P LICENSED RADIOACTIVE MATERIAL
SEALED SOURCE INDEX, LOCATION, AND USE LISTING

| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|------------------------|
| B 334 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 335 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 347 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 346 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 341 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 342 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 349 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 337 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 336 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 348 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 338 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 343 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 340 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 344 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|---------------------------|
| B 345 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 339 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 350 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 365 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 353 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 352 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 359 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 362 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 364 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 357 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 354 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 358 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 351 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 355 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|---------------------------|
| B 363 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 361 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 360 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| B 356 | W.A. Parish | Cs-137 | 4 Ci | | Texas Nuclear | Precip. Level Detector |
| 8503 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8505 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8507 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8509 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8511 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8513 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8515 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8517 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8519 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8521 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|---------------------------|
| 8525 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8528 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8491 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8492 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8493 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8494 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8495 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8496 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8497 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8498 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8499 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8500 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8501 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |
| 8502 | W.A. Parish | Cs-137 | 100 mCi | | Kay-Ray | Precip. Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-----------------------------|
| B 1063 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1064 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1065 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1066 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1067 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1068 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1069 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1070 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1071 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1072 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1073 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1074 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1075 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1076 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-----------------------------|
| B 1077 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1078 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1079 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1080 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1081 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1082 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1083 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1084 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1085 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1086 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1087 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1088 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1089 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1091 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-----------------------------|
| B 1092 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1093 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1094 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1095 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1096 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1097 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1098 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1099 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1100 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1101 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 1102 | W.A. Parish | Cs-137 | 100 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3109 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3110 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3111 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |

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| <u>Number</u> | <u>Facility</u> | <u>Isotope</u> | <u>Activity</u> | <u>Assay Date</u> | <u>Manufacturer</u> | <u>Purpose</u> |
|---------------|-----------------|----------------|-----------------|-------------------|---------------------|-----------------------------|
| B 3112 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3113 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3114 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3115 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| B 3116 | W.A. Parish | Cs-137 | 50 mCi | | Texas Nuclear | Bag House Level Detector |
| 49837-1 | Armada Hess | Cs-137 | 1000 mCi | | Ohmart | Oil Flow Monitor |
| 49837-9 | Cedar Bayou | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| 49837-4 | Deepwater | Cs-137 | 750 mCi | | Ohmart | Oil Flow Monitor |
| 49837-7 | Greens Bayou | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| 49837-8 | Greens Bayou | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| 49837-10 | P.H. Robinson | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| 49837-2 | Sam Bertron | Cs-137 | 750 mCi | | Ohmart | Oil Flow Monitor |
| 49837-3 | Sam Bertron | Cs-137 | 750 mCi | | Ohmart | Oil Flow Monitor |
| 49837-5 | Sam Bertron | Cs-137 | 500 mCi | | Ohmart | Oil Flow Monitor |

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|---------------|-----------------|------------------|-------------------------------------|-------------------|---------------------|--------------------------|
| 49837-6 | Sam Bertron | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| 49837-11 | T.H. Wharton | Cs-137 | 300 mCi | | Ohmart | Oil Flow Monitor |
| CD-716 | EDC | Co-60 | 6 sources totaling 30 mCi | | (CD) | Training |
| 167760 | EDC | Cs-137 | 40 uCi | | Isotope Products | Scintillator Calibration |
| SCS 1001 | EDC | Cs-137 | 0.1 mCi | | Eberline | Calibration |
| SCS 1002 | EDC | Cs-137 | 7.8 mCi | | Eberline | Calibration |
| SCS 1003 | EDC | Cs-137 | 299 mCi | | Eberline | Calibration |
| SCS 1004 | EDC | Cs-137 | 7900 mCi | | Eberline | Calibration |
| SCS 1005 | EDC | Cs-137 | 2.7 mCi | | Eberline | Calibration |
| SCS 1006 | EDC | Cs-137 | 140 mCi | | Eberline | Calibration |
| SCS 1007 | EDC | Cs-137 | 3 Ci | | Eberline | Calibration |
| SCS 1008 | EDC | Cs-137 | 168.7 Ci | | Eberline | Calibration |
| 9912 | STP | Cs-137 | 100 mCi | | Kay-Ray | Density Gauge |
| STX-1 | STP | U-238/ NP-237 | 6 Sources Totaling 72.624 uCi | | Westinghouse | In-core Monitoring |
| STX-2 | STP | U-238/ NP-237 | 6 Sources Totaling 72.624 uCi | | Westinghouse | In-core Monitoring |
| 4437 | Limestone | Cs-137 AmBe | 8 mCi 45 mCi | | Troxler | Density Gauge |

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|---------------|-----------------|---------------------|-----------------|-------------------|-------------------------|-------------------------|
| 4438 | Limestone | Cs-137 AmBe | 8 mCi 45 mCi | | Troxler | Density Gauge |
| EDX-1 | EDC | Ni-63 | 15 mCi | | New England Nuclear | Gas Chromato- graphy |
| NES-0295 | EDC | Mn-54 | 12.8 uCi | | New England Nuclear | QA |
| 10509-17 | EDC | Mixed Gamma | | 9-15-80 | Analytics | QA |
| 0-992 | EDC | Am-241 | 22.9 nCi | 8-01-81 | Isotope Products Lab | QA |
| 11375-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| 11376-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| 11377-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| 11378-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| 11379-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| 11380-17 | EDC | Mixed Gamma | | 9-15-81 | Analytics | QA |
| S 2809 | EDC | Depleted Uranium | | | Eberline | QA |
| B 4166 | W.A. Parish | Cs-137 | 100 mCi | 4-81 | Texas Nuclear | Density Gauge |
| B 4167 | W.A. Parish | Cs-137 | 100 mCi | 4-81 | Texas Nuclear | Density Gauge |
| B 4168 | W.A. Parish | Cs-137 | 100 mCi | 8-81 | Texas Nuclear | Density Gauge |
| B 4169 | W.A. Parish | Cs-137 | 100 mCi | 8-81 | Texas Nuclear | Density Gauge |

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|---------------|-----------------|----------------|-----------------|-------------------|---------------------|----------------------|
| B 4170 | W.A. Parish | Cs-137 | 100 mCi | 6-81 | Texas Nuclear | Density Gauge |
| 11642 | W.A. Parish | Cs-137 | 200 mCi | 7-70 | Kay-Ray | Density Gauge |
| 11643 | W.A. Parish | Cs-137 | 200 mCi | 7-70 | Kay-Ray | Density Gauge |
| 2804 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2805 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2806 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2807 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2808 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2809 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2810 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2811 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2812 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2813 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2814 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |
| 2815 | W.A. Parish | Cs-137 | 25 mCi | 9-82 | Stock Equipment | Coal Flow Monitor |

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|---------------|-----------------|-----------------|-----------------|-------------------|---------------------|----------------|
| 12826-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12827-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12828-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12829-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12830-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12831A-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12832A-17 | EDC | Mixed Gamma | | 10-15-82 | Analytics | QA |
| 12850-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12851-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12852-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12853-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12854-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12855-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |
| 12856-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |

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|---------------|-----------------|-----------------|-----------------|-------------------|---------------------|----------------|
| 12857-17 | EDC | Cr-51 Ce-139 | | 10-15-82 | Analytics | QA |