

L & L 28267
030-30753 (P.1)

NRC Form 313 (12-81) 10 CFR 20 U.S. NUCLEAR REGULATORY COMMISSION

1. APPLICATION FOR: (Check and/or complete as appropriate)

APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL

a. NEW LICENSE

b. AMENDMENT TO LICENSE NUMBER

c. RENEWAL OF LICENSE NUMBER

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME (Institution, firm, person, etc.)

DOWNEAST PEAT L.P. POWER PLANT

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
207-638-2811

3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

EDWARD L. CURRAN / PLANT MANAGER

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
207-638-2811

4. APPLICANT'S MAILING ADDRESS (Include Zip Code) (Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

LANE ROAD, BOX 45D
DEBLOIS, MAINE 04622

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code)

LANE ROAD, BOX 45D
DEBLOIS, MAINE 04622

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL (See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME	TITLE
a. EDWARD L. CURRAN	PLANT MANAGER
b. GAGE WILL BE TURNED OVER TO ACEC MAINE INC. WHILE THE PLANT	
c. IS UNDER CONSTRUCTION.	

7. RADIATION PROTECTION OFFICER

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

B. LICENSED MATERIAL

LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
	A	B	C	D
(1)	CS-137	SEALED SOURCE	OHMART A-2102	Ⓐ 3-375 MCI
(2)				Ⓑ 3-10 MCI Ⓒ 3-20 MCI
(3)	TESTING FOR PROPER OPERATION OF OFF/ON MECHANISM - NOT TO EXCEED 6 MONTH INTERVALS			
(4)	WIPE TEST INTERVAL - NOT TO EXCEED 3 YEARS			
	DESCRIBE USE OF LICENSED MATERIAL			B912070108 BB0922 REG1 LIC30 18-28267-01 PDR

(1) IN "OHMART" DEVICES WHICH HAVE BEEN EVALUATED AND APPROVED FOR LICENSING PURPOSES AND AUTHORIZED FOR DISTRIBUTION UNDER AUTHORITY OF OHMARTS LICENSE # 34-00639-01 BY N.R.C. OR AN AGREEMENT STATE.

(2)

(3) Ⓐ TO BE USED IN "OHMART SHD" SOURCE HOLDER TO MEASURE LEVEL OF PROCESS MATERIAL

(4) Ⓑ TO BE USED IN "OHMART SR-A" SOURCE HOLDER TO MEASURE LEVEL OF PROCESS MATERIAL

Ⓒ MATERIAL

License Fee Information: 105411

9 STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A	NAME OF MANUFACTURER B	MODEL NUMBER C
(1)	SOURCE HOLDER	OHMART	SHD
(2)	SOURCE HOLDER	OHMART	SR-A
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	OHMART WILL START UP AND COMMISSION THE INSTRUMENTS					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

a. CALIBRATED BY SERVICE COMPANY
NAME, ADDRESS, AND FREQUENCY

b. CALIBRATED BY APPLICANT
Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____	NONE REQUIRED BY USER. RADIATION ON OHMART EQUIPMENT DOES NOT EXCEED 5 MR/HR AT ONE (1) FOOT FROM GAGE OUTLINE AND 100 MR/HR FIELD IS NOT PRESENT	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.

b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.

c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.

d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC. NOT APPLICABLE

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

(14) SEE ATTACHED LETTER

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

Log	Aug 19
Remitter	
Check No.	555
Amount	\$ 230
Fee Category	3P
Type of Fee	A P P
Date Check Rec'd.	8/30/88
Date Completed	8/30/88
By:	J. Kennedy

16. CERTIFICATE

(This item must be completed by applicant)

1094711

The applicant and any official executing this certificate on behalf of the applicant named in item 16, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

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.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature) Edward L. Curran
	c. NAME (Type or print) EDWARD L. CURRAN
(1) LICENSE FEE CATEGORY:	d. TITLE PLANT MANAGER
(2) LICENSE FEE ENCLOSED \$ 230.00	e. DATE AUGUST 9, 1988

14.

Whenever the source/source holder is no longer needed it will be removed and returned to the manufacturer for disposal. The services of the manufacturer's representative will be obtained to supervise the removal, reinstallation, and/or packaging for return to the manufacturer.

The source/source holders will be received and stored pending arrival of Manufacturer's Field Engineer. The source/source holders will be installed in the closed position under the supervision of the representative. A written procedure for prevention of entry into the vessel when the source is in the open, (source exposed) position will be prepared. This program will be developed in consultation with the manufacturer/s representative.

The initial radiation survey will be made by the representative at the time the device is placed in service. An occupancy evaluation will be made by the representative and if film badges appear to be required, they will be obtained. Form NRC-3 will be posted and if the radiation survey with the vessel(s) empty reveals radiation fields in excess of 5mr/hr at 12 inches from the surface of the vessels, appropriate warning signs will be posted. Procedures will be adjusted to reduce the total dose to personnel to the minimum reasonably achievable. A copy of the radiation survey and written procedures will be kept on file for future reference.

In case of malfunction of the source holder or damage thereto, the services of the manufacturer's representative will be obtained for repair or to supervise removal and proper packaging for return to the manufacturer for repair or replacement as required.

In case of emergency such as fire or explosion involving apparent damage to the source holder, the appropriate Regional Office of Inspection and Enforcement (10 CFR 20 Appendix D), USNRC, will be contacted for assistance. The area around the source holder will be barricaded. The services of a manufacturer's representative will be obtained to assist in inspection for damage and local health authorities will also be notified.

WIPE TEST PROCEDURE- A test will be performed on the surface of the source holder at the appropriate interval by the licensee in accordance with the instructions of the manufacturer's representative and contained in the gage instruction manual. The wipe test kit to be used is the Ohmart Model LT and the wipe will be evaluated for leakage by The Ohmart Corporation. Should the presence of 0.005 microcuries of removable contamination be detected, the source holder will be withdrawn from service, the Regional Office of the USNRC notified and the device repaired or replaced by the manufacturer.

,16

Dhmart will provide on the job training at start up.

,17

On the job training at start up.

TO: DEP PROJECT ARECH, DEBLOIS, AMNE, USA

FAX PHONE NO: 207-6382371

DATE 5.8.-88

TIME _____

TOTAL PAGES 1+9

INCL. THIS PAGE

ATT: MR. Z. DUDA

C.C./REF _____

PLEASE FIND ATTACHED OUR ANSWERS
TO YOUR FAX CONCERNING LEVEL
DETECTORS BY OHMART. (DU-1)

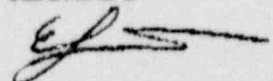
WILL SEND THE SAME WITH DHL-COURIER
AND TRY TO GET HÖGANÄL REF. LITING
DRAWING WITH IT, TOO

FROM: OUTOKUMPU ENGINEERING/ ERKKI JÄÄKKELÄINEN

FAX PHONE No. (INTERNATIONAL) 358-0-4212674

FAX TYPE: CANON 320 E, SPEED 3

REGARDS



IF TRANSMISSION NOT COMPLETE PLEASE INFORM US

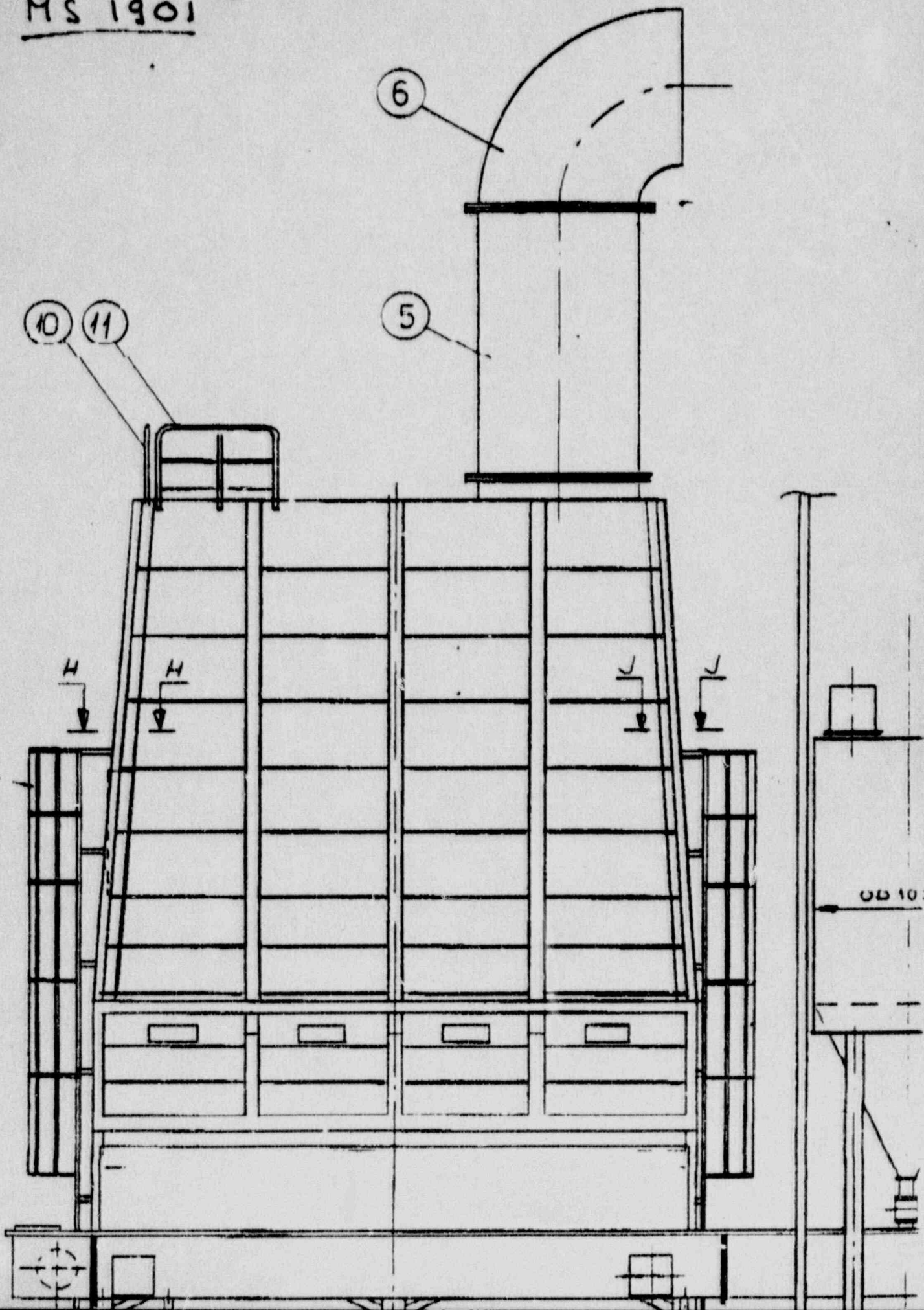


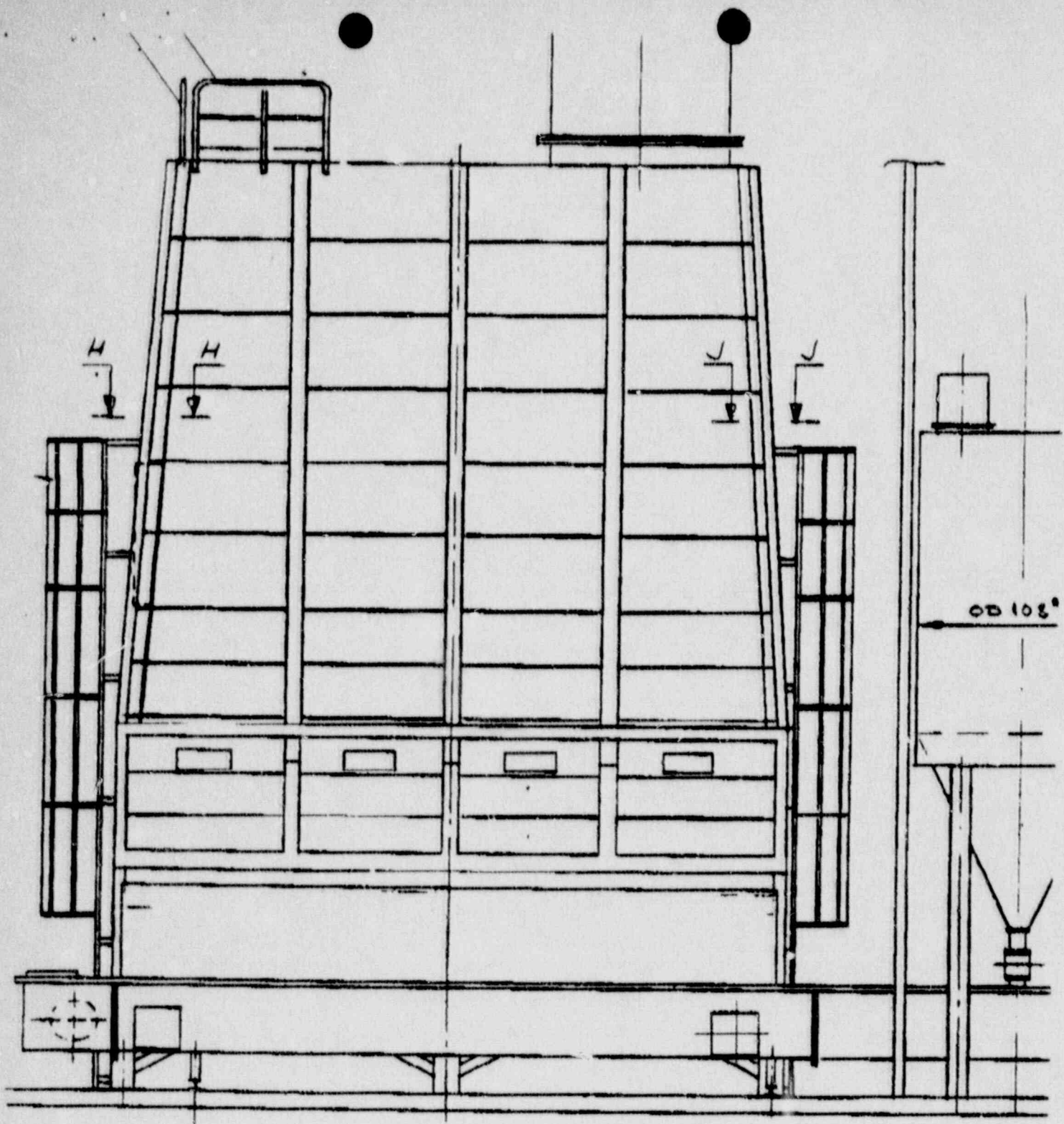
"LEVELART" - LEVEL GAUGES

- 1 The detectors are attached to the peat storage silos (3), chain conveyor hoppers (3) and unloading chute of belt conveyor. The silos and hoppers are in the boiler house building and the chute is outside. The connections are shown in the attached sketches.
- 2 The temperature inside the building may vary from 0 to 30 centigrade. The atmosphere is slightly corrosive.
- 3 The ambient temperature in the spaces, where the detectors are located, does not exceed the temperature limits (-40 to +70 degrees centigrade) set for the detectors.
- 4 N/A

ENCLS: Sketch MH 1789 - VI - OP4
MK 1904 - OP2
MS 1901

MS 1901





SECTION B-B
SCALE 1:1/4"

3'-8"

5

Total weights

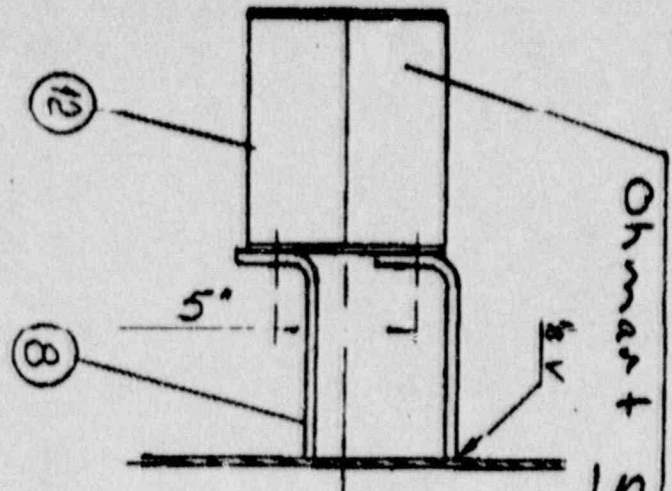
struct. from USA 133195 lbs / 80544 kg
 struct. from Finland _____
 onents from Finland _____

X	13	Detector Ilmaisin	
X	12	Source holder säteilijö	
X	11	Hand rail Kaide	^
X	10	Hand rail Kaide	^
X	9	Stand kannatin	^
X	8	Stand kannatin	M
X	7	Ladder Tikkoo!	M
X	1	Explosion source	

Grouting

Source holder

Ohmart SHD



H-H

Detector
Ohmart GH-13

J-J

SCALE 1 1/8" (1:12)

3	Disc	X
2	PEAT & SYDNEY	X
1	DELMONTE PIERUS	

FROM FORWARD

STEEL STRUC. FROM USA

ROXON

STEEL STRUC. FABRICATOR



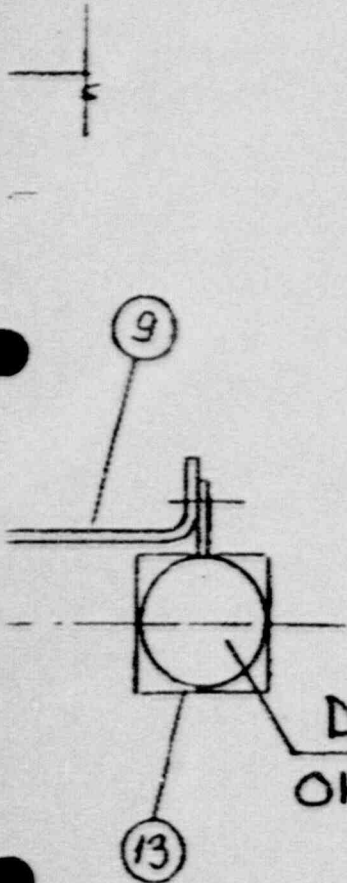
Q

CLASS STANDARD

PRODUCT FLUIDIZED

DATE TITLE

Rev	Change	Date
1	Issue for Fabrication	
2	Issue for Fabrication	








Detector
Ohmart GM-13

J-J

SCALE 1:1/8"
(1:1/4")

X	3	Disc hanger Dunkeln	MS 1901-N1	3	
X	2	PEAT SILO SYÖTÖSILO	MS 1901-072	3	46300 27045
	1	PLANNING LIST PIIRUSTUSLUETTELO	MS 1901-071		

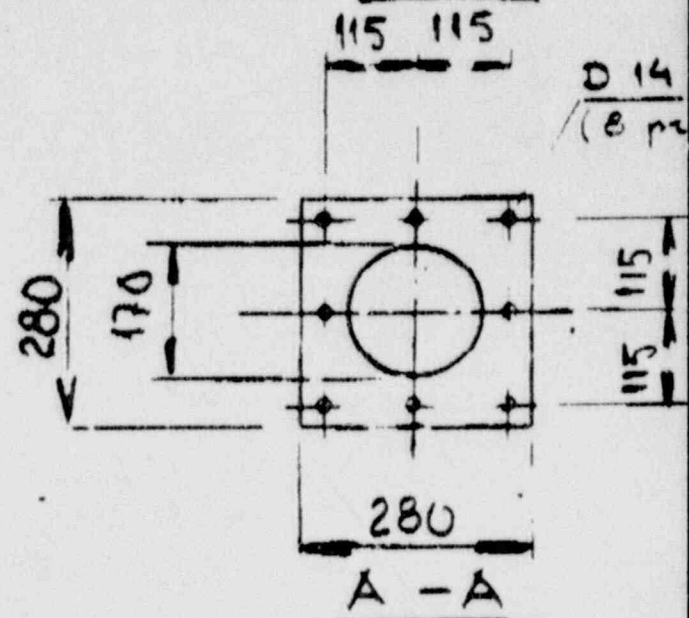
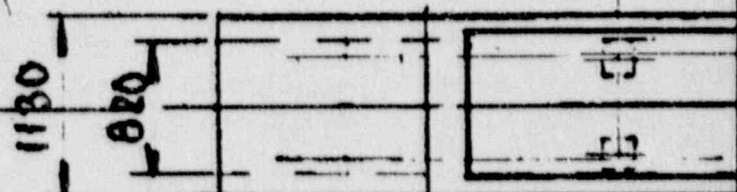
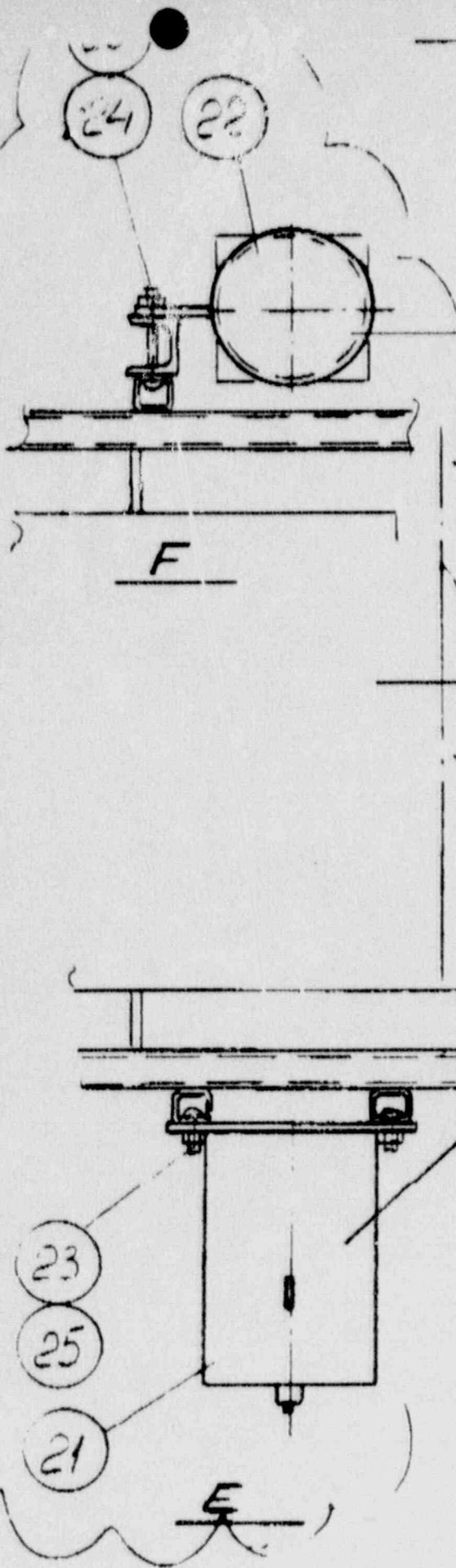
FINN FINLAND		ACEC - STANDARDKESSEL GESELLSCHAFT JOINT VENTURE FOR DOWN EAST PEAT L.P.	
STEEL STRUC. FROM USA	ROBION	STEEL STRUC. FABRICATOR	 
			
			DESIGNED CHECKED APPROVED
CLIENT STANDARDKESSEL GMBH		CLIENT'S ENG. NO.	
PROJECT FLUIDIZED BED BOILER PLANT			
DRAWING TITLE		SCALE	REF. ENG.
			ENG. NO. 443-610-903-026-1
			REV. 6 3

Design Drawn	HEINEMAN	Chk. Tark.	Appr. Hyy.	Code Kood.	A0
Des. Pik.					
Des. Tark.	7/36	PEAT SILO SYÖTÖSILO			757
		ROBION	MS 1901		0

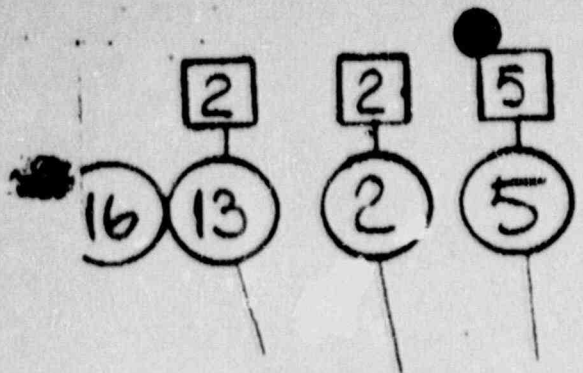
MK 1904-OP2

Detector
Ohmart GM-13

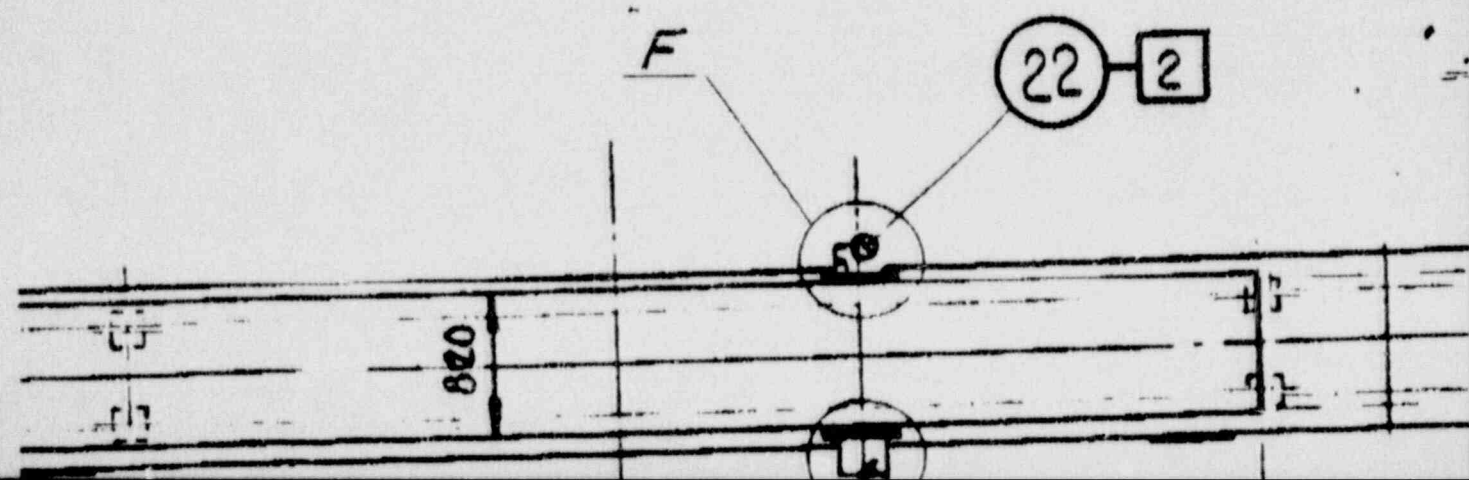
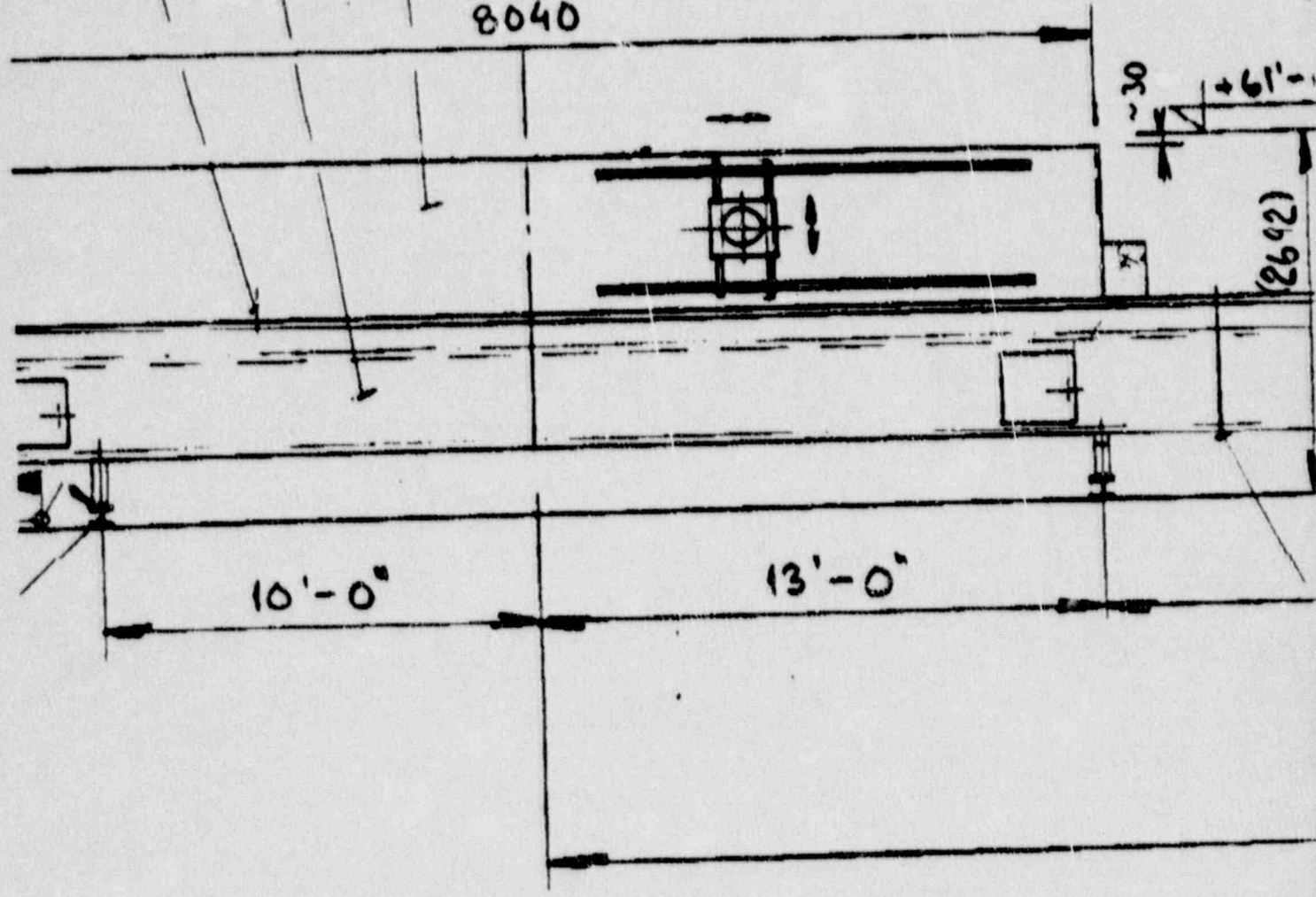
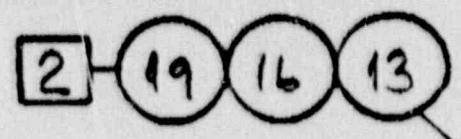
Source holder
Ohmart SR-A

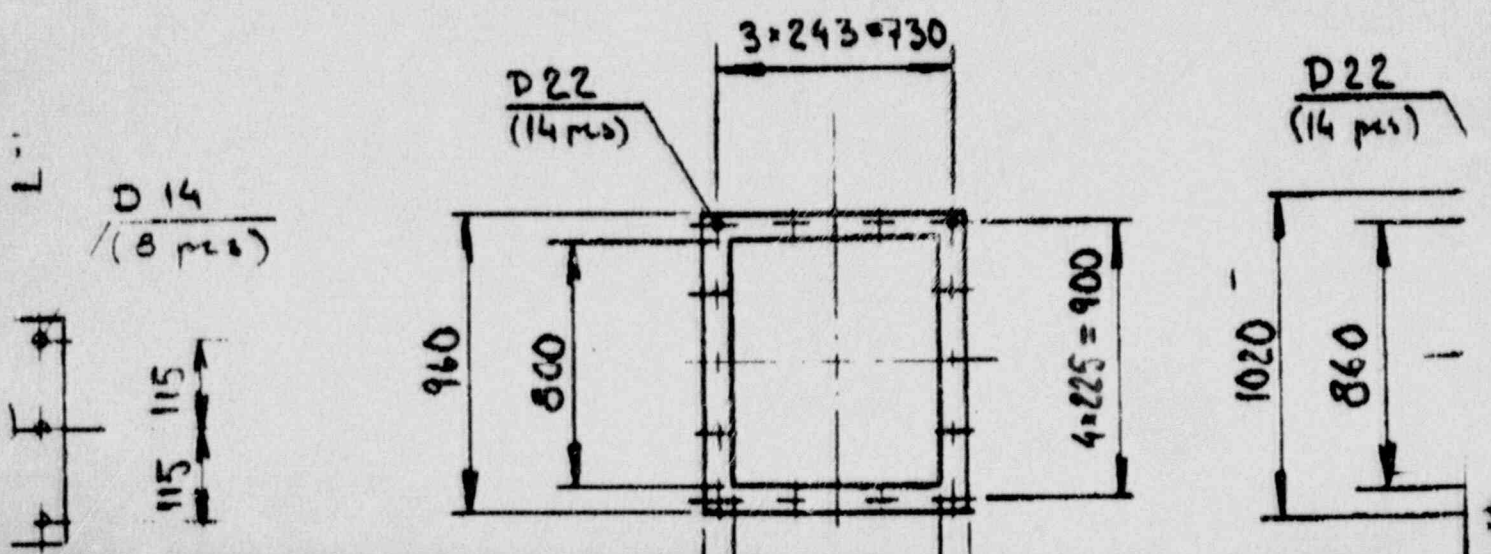
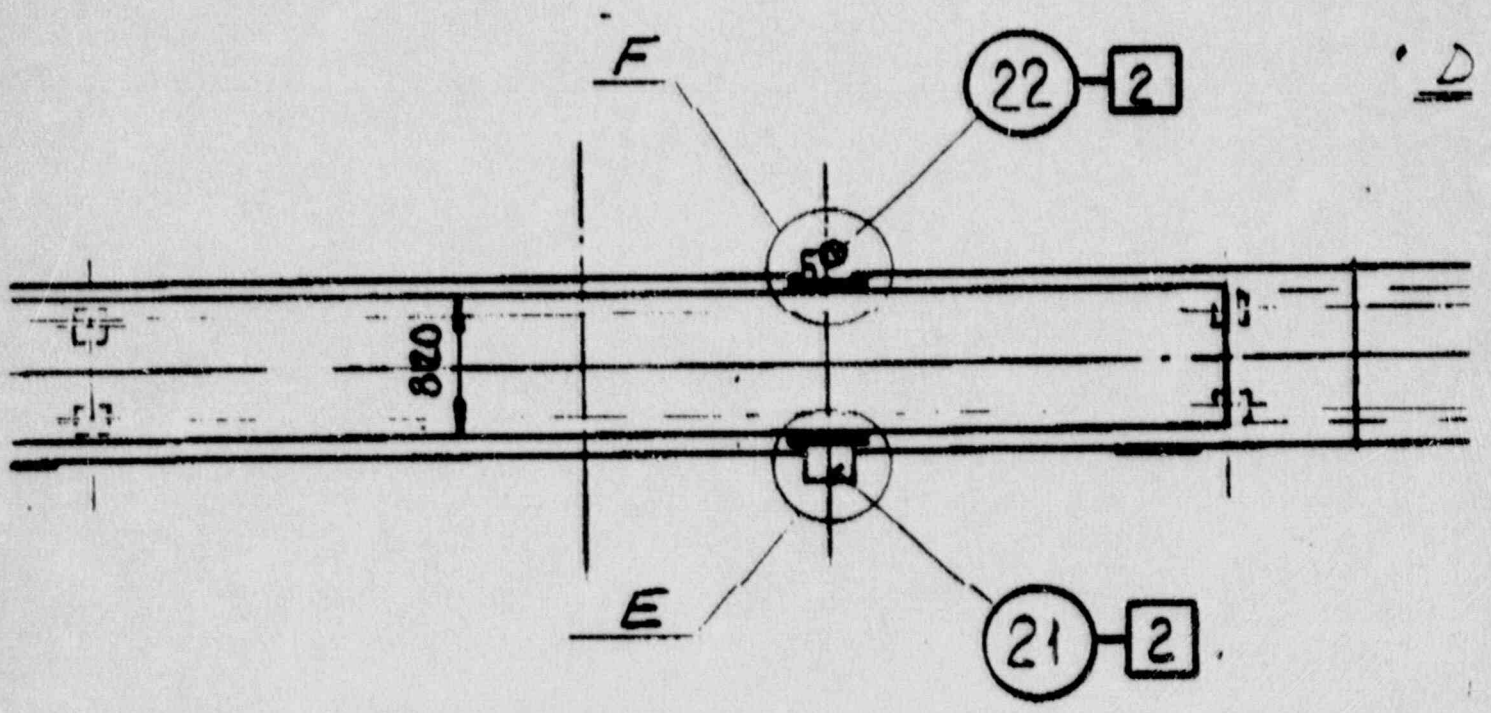
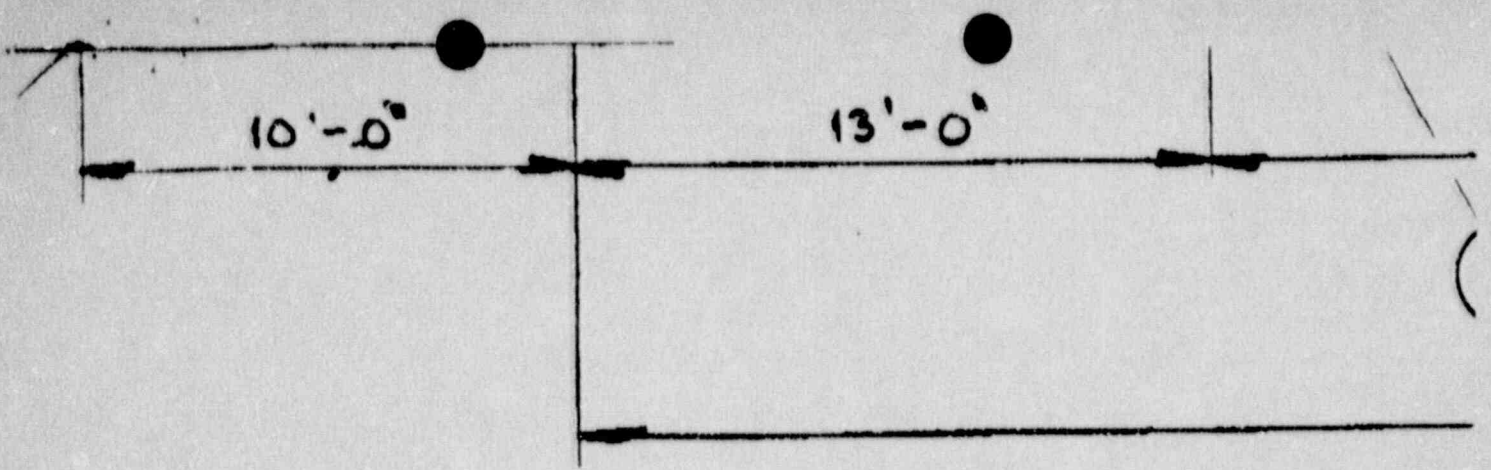


MK 1404-OP2

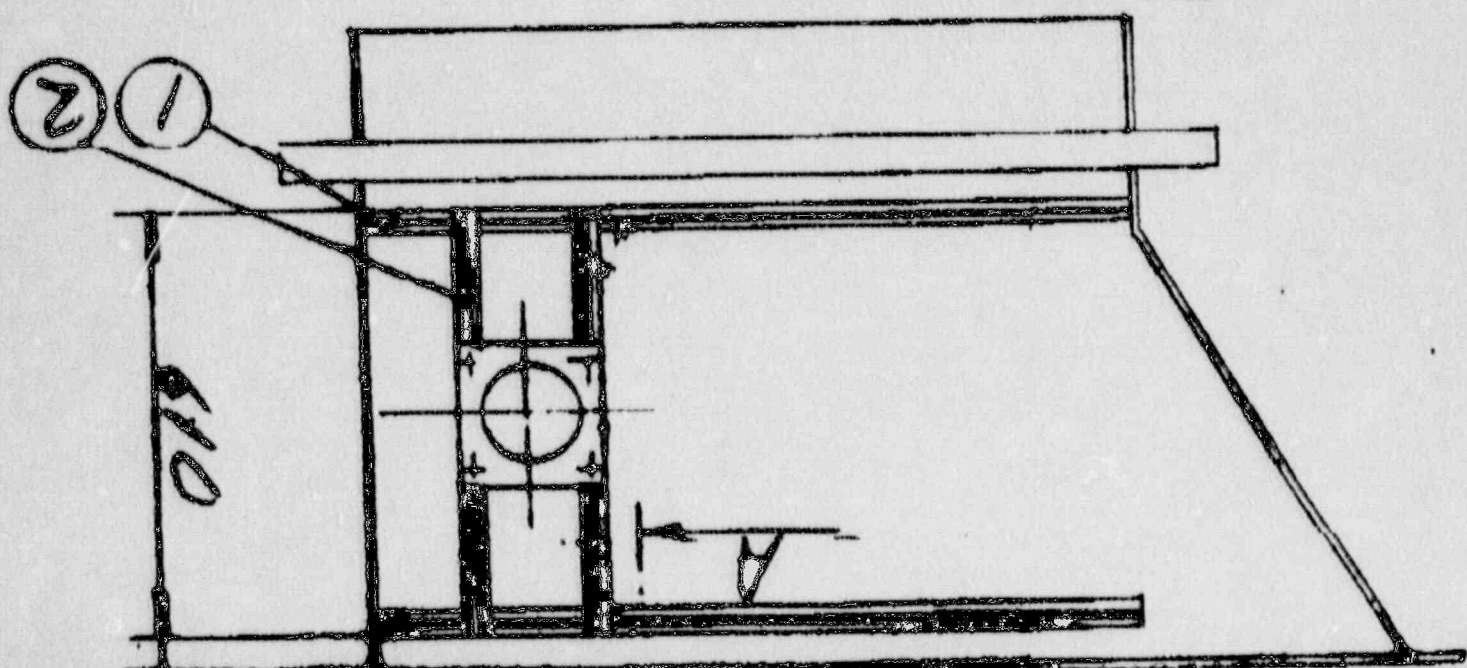
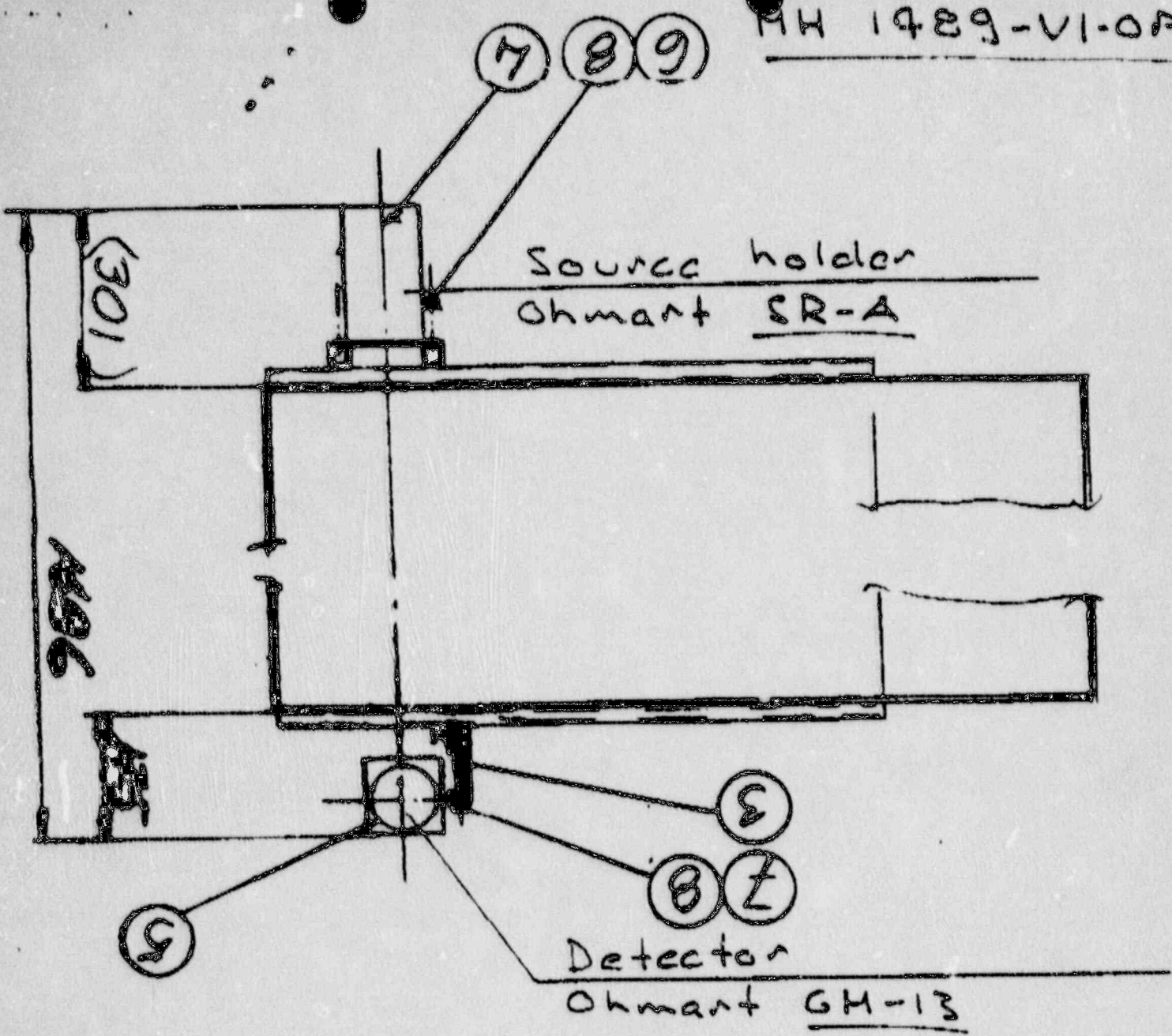


TEST SILO:
8040





MH 1489-VI-0A1



BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

:
:
:
:
:
PROGRAM CODE: -----
STATUS CODE: 3
FEE CATEGORY: -----
EXP. DATE: 0
FEE COMMENTS:
:.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: DOWNEAST PEAT L. P. POWER PLANT
RECEIVED DATE: 880812
DOCKET NO: 3030753
CONTROL NO.: 109411
LICENSE NO.:
ACTION TYPE: NEW LICENSEE

2. FEE ATTACHED
AMOUNT: 230
CHECK NO.: 555

3. COMMENTS

SIGNED [Signature]
DATE: 8/23/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE Q1 IS ENTERED)

1. FEE CATEGORY AND AMOUNT: 3P 8230

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR
AMENDMENT -----
RENEWAL -----
LICENSE

3. OTHER -----

SIGNED [Signature]
DATE: 8/30/88