WASTEWATER STREAM CHARACTERIZATION FOR TA 16-220, 221, 222, 223, 224, 225, 226, 230, 231, 232, 233, 234, 235, 236, 237, 238 AND 239

at
Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT #7

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ENVIRONMENTAL

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WASTEWATER STREAM CHARACTERIZATION FOR TA 16-220, 221, 222, 223, 224, 225, 226, 230, 231, 232, 233, 234, 235, 236, 237, 238 AND 239

ENVIRONMENTAL STUDY

prepared for:
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EXECUTIVE SUMMARY

Buildings 220, 221, 222, 223, 224, 225, 226, 230, 231, 232, 233, 234, 235, 236, 237, 238 and 239 in TA-16 were visited to document all drain piping and to make permitting recommendations The outfall pipes exiting the buildings were as follows.

1) from 16-220: two roof drains, one non-contact cooling water permitted as 04A070, one steam pit drain, one outfall to the sanitary sewer, one fire water drain and two condensate vents.

2) from 16-221: two steam vents, one roof drain and one steam pit drain.

3) from 16-222: three roof drains, one photographic rinse drain permitted as 06A073, one discharge to sanitary sewer, one steam pit drain, four condensate drains and one fire water drain.

4) from 16-223: two steam vents one roof drain and one steam pit drain.

5) from 16-224: two roof drains, one unpermitted floor drain discharge, one discharge to sanitary sewer, one steam pit drain, two condensate drains and one fire water drain.

6) from 16-225: two steam vents, one roof drain and one steam pit drain.

7) from 16-226: two roof drains, one unpermitted floor drains discharge, one discharge to sanitary sewer, one steam pit drain and two condensate vents.

8) from 16-230, 16-231, 16-232, 16-233, 16-234, 16-235, 16-236, 16-237, 16-238 and 16-239: no drains.

Revised EPA Forms 2C are attached for the two outfalls already permitted as 04A070 and 06A073. Flows shown on the application forms are estimated from site observations and discussions with users. Analytical data are defined from information obtained from previously sampled outfalls.

Recommendations for repiping are provided to allow outfall consolidation to minimize permit maintenance requirements and to bring the facility into compliance with the Laboratory's NPDES Permit. Floor drain plugging is recommended where the potential for discharge of pollutants exists.

A waste stream database has been prepared listing wastewater type and flow rate for each outfall.

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1.0 INTRODUCTION

On May 23, 1991, Patrick Binkley and Steve Veenis of Santa Fe Engineering (SFE) toured buildings 220, 221, 222, 223, 224, 225, 226, 230, 231, 232, 233, 234, 235, 236, 237, 238 and 239 in TA-16 with Loren Abercrombie of Engineering and Information Resources (WX-12). The purpose of this study is to identify building drain piping and to characterize the wastewater flows and sources existing at the time of the visit. This report will not reflect any subsequent changes in piping or operation. The Waste Stream Characterization Policy was followed for this study. The following tasks were performed for this purpose:

1. Building drains and all piping exiting the building were identified and laid out in schematic form;

2. Wastewater sources were identified at each drain and the wastewater was characterized according to flow rate and quality. The location of outfalls and their potential sources of discharges were determined. Potential pollutants were also noted;

3. Permit applications for discharges of clean water were not prepared since these discharges do not require permitting at this time and

4. Potential problems were identified and recommendations were made for repiping, floor drain plugging and spill containment where deemed appropriate.

The field investigation proceeded using the WX-12 drawings during a site visit to verify the SFE schematics and to insure that all pipes exiting the building were documented. The following information was used to define drain piping and characterize the wastewater streams:

1. Laboratory engineering drawings were used to prepare both WX-12 drawings and the SFE drain piping schematic. The Solid Waste Stream Characterization conducted by IT Corporation was reviewed. The National Pollutant Discharge Elimination System (NPDES) Permit, the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990 and the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE), the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number VI-91-1329 issued by EPA to the University of California were used for reference;

2. WX-12 verified drain piping by dye checking and

3. A site visit was performed to verify both WX-12 drawings and the SFE drain schematic and to identify potential outfall pipes exiting the building. The visit entailed a room by room inspection of wastewater sources and drains. Interviews with site personnel were conducted to assist in waste stream characterization.

2.0 FIELD INVESTIGATION

The pipes exiting the buildings have been assigned an Outlet Piping Number (OPN). The four part number, sequentially, identifies the Technical Area where the pipe is located, the building from which the pipe discharges, the letters OPN to indicate that it is an outlet piping number and the unique number for the pipe. The piping exiting the buildings will be labeled for easy identification in the future.

Each drain has a unique identification number. Each number consists of three parts. The first part is the floor the drain is on. The second part has letters that indicate the drain type (abbreviations used are summarized in Table 1). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start with 1FD1. The roof drains do not have the number identifying the floor such as RD1 for Roof Drain 1.

The function of each pipe exiting from the buildings are listed in Appendix 1 in Tables 2 through 8, with an abbreviations list in Table 1. Appendix 2 contains the waste stream characterization database output, listing wastewater source, flow rates and periodicity information for each outfall drain. Completed EPA forms are in Appendix 3 for the appropriate outfalls. Appendix 4 contains a set of the WX-12 drawings and a table of drains dye studied by WX-12. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 8.

3.0 RECOMMENDATIONS FOR BUILDING 220

Table 2 is a list of the drains to the building outfalls and Figure 2 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

3.1 Outfalls 16-220-OPN-1 and 16-220-OPN-5

These outfalls receive water from roof drains RD1 and RD2. The final destination of water discharged through these pipes is not presently known and should be determined or repiped. No permitting is recommended.

3.2 Outfall 16-220-OPN-2

This outfall is permitted as 04A070. The drains to this outfall consists of eight floor drains. The floor drains 1FD1, 1FD2, 1FD3 and 1FD8 discharge approximately 2000 gallons/month of non-contact cooling water. Recirculation of this cooling water should be investigated. Floor drain 1FD4 discharges less than 1 gal/minute of water from a chiller. Floor drain 1FD7 periodically discharges water from a high explosives (HE) vacuum pump. Replacing this pump with a waterless pump or recirculation of the water should be considered. The mezzanine area located above 1FD7 is used for battery storage and secondary containment is recommended here. Floor drains 1FD5 and 1FD6 receive flow from rest room floor washing and should be plugged. A Form 2C has been prepared for this outfall.

3.3 Outfall 16-220-OPN-3

This outfall is a steam pit drain. The drain has been plugged but is leaching a small quantity of water into the sandy soil beneath the pit. This outfall should be included in a Notice of

Intent to Discharge (NOI). No piping changes are recommended. No EPA forms were prepared.

3.4 Outfall 16-220-OPN-4

This outfall goes to the TA-16 sanitary treatment plant which discharges as 03S. The sources to this outfall are urinals (2), lavatories (2), sink drains (1) and a water fountain (1). No changes are recommended. No EPA forms were prepared for this outfall as it does not discharge directly to environment.

3.5 Outfall 16-220-OPN-6

This outfall drains water to daylight from the fire water system The discharge from this outfall is infrequent. This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

3.6 Outfall 16-220-OPN-7 and 16-220-OPN-8

These outfalls are condensate vents to atmosphere for equipment in the mechanical room. These outfalls should be included in an NOI. No changes are recommended. No EPA forms were prepared.

4.0 RECOMMENDATIONS FOR BUILDING 221

Table 3 is a list of the drains to the building outfalls and Figure 3 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

4.1 Outfalls 16-221-OPN-1 and 16-221-OPN-2

These outfalls are steam vents to atmosphere. 16-221-OPN-1 is vent from a steam pressure relief valve and 16-221-OPN-2 is a

condensate drum vent. These outfalls should be included in an NOI.

4.2 Outfall 16-221-OPN-3

This outfall receives water from roof drains RD1 and RD2 The final destination of the water discharged is not presently known. The flow from this outfall is intermittent and will consist of storm water. Locating the destination or repiping these outfall is recommended. No permitting is recommended

4.3 Outfall 16-221-OPN-4

This outfall is from a below-grade utility valve box that has a drain (SPD1) in the bottom. The destination of the outfall is not known with certainty. Flow probably is leaching into the sand beneath the pit. This outfall should be included in an NOI. No piping changes are recommended.

5.0 RECOMMENDATIONS FOR BUILDING 222

Table 4 is a list of the drains to the building outfalls and Figure 4 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

5.1 Outfalls 16-222-OPN-1, 16-222-OPN-2 and 16-222-OPN-5

These outfalls receive water from roof drains RD1, RD2, RD3 and RD4. The final destination of the water discharged through these pipes is not presently known. Locating the destination or repiping these outfalls is recommended. No permitting is recommended and no EPA forms were completed.

5.2 Outfall 16-222-OPN-3

This outfall to daylight is permitted as 06A073. The floor drains 1FD6 through 1FD13 have a total monthly outflow of approximately 20,000 gallons/month. Chemical drums stored above 1FD13 should be removed. Repiping 1SD2 to the sanitary sewer is recommended. An EPA Form 2C has been prepared for this outfall.

5.3 Outfall 16-222-OPN-4

This outfall goes to the TA-16 sanitary treatment plant, which discharges as 03S. The sources for this outfall are floor drains (4), sink drains (3), urinals (2), lavatories (1) and a water fountain (1). No EPA forms were prepared and no piping changes are recommended.

5.4 Outfall 16-222-OPN-6

This outfall is a steam pit drain. The drain has been plugged but is leaching a small quantity of water into the sandy soil below the pit. This outfall should be included in an NOI. No piping changes are recommended. No EPA forms were prepared.

5.5 Outfalls 16-222-OPN-7, 16-222-OPN-8, 16-222-OPN-9 and 16-222-OPN-10

These outfalls are condensate vents to atmosphere for equipment in the mechanical and boiler rooms. These outfalls should be included in an NOI.

5.6 Outfall 16-222-OPN-11

This outfall drains to daylight from the fire water system. The discharge from this outfall is infrequent. This outfall should be included in an NOI.

6.0 RECOMMENDATIONS FOR BUILDING 223

Table 5 is a list of the drains to the building outfalls and Figure 5 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

6.1 Outfalls 16-223-OPN-1 and 16-223-OPN-2

These outfalls are steam vents to atmosphere. 16-223-OPN-1 is a steam pressure relief valve and 16-223-OPN-2 is a condensate drum vent. These outfalls should be covered by an NOI. No piping changes are recommended.

6.2 Outfall 16-223-OPN-3

This outfall receives water from roof drains RD1 and RD2 The final destination of the water discharged is not presently known. The flow from this outfall is intermittent and will consist of storm water. Locating the destination or repiping these outfall is recommended. No permitting is recommended and no EPA forms were completed.

6.3 Outfall 16-223-OPN-4

This outfall is from a below-grade utility valve box that has a drain (SPD1) in the bottom. The destination of the outfall is not known with certainty. Flow probably is leaching into the sand beneath the pit. This outfall should be included in an NOI. No piping changes are recommended.

7.0 RECOMMENDATIONS FOR BUILDING 224

Table 6 is a list of the drains to the building outfalls and Figure 6 is a schematic of the piping. The table lists the

drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

7.1 Outfalls 16-224-OPN-1 and 16-224-OPN-3

These outfalls receive water from four roof drains (RD1 through RD4). The final destination of the water discharged through these pipes is not presently known. The flow would be intermittent and consist of storm water. Locating the destination or repiping is recommended. No EPA forms were completed.

7.2 Outfalls 16-224-OPN-2

This outfall in the past has received HE washdown into floor drains 1FD1 and 1FD2 and discharges to daylight. The building is used for X-ray purposes but is not currently in use. There was, however, HE residue observed in the drains and it is recommended that they be plugged. No EPA forms were prepared.

7.3 Outfall 16-224-OPN-4

This outfall goes to the TA-16 sanitary treatment plant which discharges as 03S. The sources to this outfall are sink drains (3), urinals (2), floor drains (4), a lavatory (1) and a water fountain (1). NO EPA forms were prepared and no piping changes are recommended.

7.4 Outfalls 16-224-OPN-5

This outfall is a steam pit drain. The drain has been plugged but is leaching a small quantity of outfall into the sandy soil below the pit. This outfall should be included in an NOI. No piping changes are recommended.

7.5 Outfalls 16-224-OPN-6 and 16-224-OPN-7

These outfalls are condensate vents to atmosphere for equipment in the mechanical room. These outfalls should be included in an NOI.

7.6 Outfall 16-224-OPN-8

This outfall to daylight drains water from fire water system. The discharge from this outfall is infrequent. This outfall should be included in an NOI.

8.0 RECOMMENDATIONS FOR BUILDING 225

Table 7 is a list of the drains to the building outfalls and Figure 7 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

8.1 Outfalls 16-225-OPN-1 and 16-225-OPN-2

These outfalls are steam vents to atmosphere. 16-225-OPN-1 is a steam pressure relief valve and 16-225-OPN-2 is a condensate drum vent. No piping changes are recommended. These outfalls should be included in an NOI.

8.2 Outfall 16-225-OPN-3

This outfall receives water from roof drains RD1 and RD2. The final destination of the water discharged is not presently known. The flow from this outfall is intermittent and will consist of storm water. Locating the destination or repiping these outfalls is recommended. No EPA forms were prepared.

8.3 Outfall 16-225-OPN-4

This building has a below-grade utility valve box that has a drain (SPD1) in the bottom. The destination of the outfall is not known with certainty. Flow probably is leaching into the sand beneath the pit. This outfall should be included in an NOI.

9.0 RECOMMENDATIONS FOR BUILDING 226

Table 8 is a list of the drains to the building outfalls and Figure 8 is a schematic of the piping. The table lists the drains that connect to each outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

9.1 Outfalls 16-226-OPN-1 and 16-226-OPN-3

These outfalls receive water from four roof drains (RD1 through RD4). The final destination of the water discharged through these pipes is not presently known. The flow would be intermittent and consist of storm water. Locating the destination or repiping is recommended. No threat to the environment is caused by this outfall and no permitting is recommended.

9.2 Outfall 16-226-OPN-2

This outfall to daylight in the past has received HE washdown into floor drains 1FD1 and 1FD2. The building is used for X-ray purposes but is not currently in use. There was, however, HE residue observed in the drains and it is recommended that they be plugged. No EPA forms were prepared.

9.3 Outfall 16-226-OPN-4

This outfall goes to the TA-16 sanitary treatment plant which discharges as 03S. The sources for this outfall include sink drains (3), urinals (2), floor drains (4), a lavatory (1) and a water fountain (1). No EPA forms were prepared.

9.4 Outfall 16-226-OPN-5

This outfall is a steam pit drain. The drain has been plugged but is leaching a small quantity of outfall into the sandy soil below the pit. This outfall should be included in an NOI. No piping changes are recommended.

9.5 Outfalls 16-226-OPN-6 and 16-226-OPN-7

These outfalls are condensate vents to atmosphere for equipment in the mechanical room. These outfalls should be included in an NOI.

9.6 Outfall 16-226-OPN-8

This outfall to daylight drains water from fire water system. The discharge from this outfall is infrequent. This outfall should be included in an NOI.

10.0 RECOMMENDATIONS FOR BUILDINGS 230, 231, 232, 233, 234, 235, 236, 237, 238 AND 239

These structures are passageways that connect the seven main buildings. Figure 1 shows these passageways and how they connect the buildings. The floors are concrete so that any spills of HE would be contained. No changes or permitting are recommended for these passageways.

11.0 CONCLUSION

This document provides the information to characterize buildings 220, 221, 222, 223, 224, 225, 226, 230, 231, 232, 233, 234, 235, 236, 237, 238 and 239 in TA-16. Permit application forms have been completed for the following outfalls:

Form 2C:

1. 16-220-OPN-4 (04A070) 2. 16-222-OPN-10 (06A073)

Permitting is not recommended for the remaining outfalls, as itemized below:

Vapor vents:

1. 16-220-OPN-7	2. 16-220-OPN-8	3. 16-221-OPN-1
4. 16-221-OPN-2	5. 16-222-OPN-7	6. 16-222-OPN-8
7. 16-222-OPN-9	8. 16-222-OPN-10	9. 16-223-OPN-1
10. 16-223-OPN-2	11. 16-224-OPN-6	12. 16-224-OPN-7
13. 16-225-OPN-1	14. 16-225-OPN-2	15. 16-226-OPN-6
16. 16-226-OPN-7		

Discharges of fire water:

1. 16-220-OPN-6	2. 16-222-OPN-11	3. 16-224-OPN-8
4. 16-226-OPN-8		

Steam pit drains:

1. 16-220-OPN-3	2. 16-221-OPN-4	3. 16-222-OPN-6
4. 16-223-OPN-4	5. 16-224-OPN-5	6. 16-225-OPN-4
7. 16-226-OPN-5		

Discharges of storm water:

1. 16-220-OPN-1	2. 16-220-OPN-5	3. 16-221-OPN-3
4. 16-222-OPN-1	5. 16-222-OPN-2	6. 16-222-OPN-5
7. 16-223-OPN-3	8. 16-224-OPN-1	9. 16-225-OPN-3
10. 16-226-OPN-1		

Discharges to the sanitary sewer:

1. 16-220-OPN-4	2. 16-222-OPN-4	3. 16-224-OPN-4
4. 16-226-OPN-4		

Miscellaneous discharges:

1. 16-224-OPN-2 2. 16-226-OPN-2

Recommended permitting and corrective action are outlined in Tables 2 through 5. Outfall permitting should be performed immediately and corrective action should be performed as soon as practicable to minimize the chance of unpermitted discharge of pollutants.

TABLE 1
SUMMARY OF ABBREVIATIONS

ABBREVIATION	MEANING
FD	Floor Drain
LV	Lavatory
MH	Manhole
RD	Roof Drain
SD	Sink Drain
SPD	Steam Pit Drain
UR	Urinal
WF	Water fountain

TABLE 2: TA 16-220 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
16-220-OPN-1	RD1	Roof	Locate or repipe	No
16-220-OPN-2 04A070	1FD1	X-ray Room	Recirculate water	Yes
	1FD2	X-ray Room	Recirculate water	
	1FD3	X-ray Room	Recirculate water	
	1FD4	Equipment Room	No Change	
	1FD5	Restroom	Plug	
	1FD6	Restroom	Plug	
	1FD7	Equipment Room	Recirculate water	
	1FD8	X-ray Room	Recirculate water	
16-220-OPN-3	SPD1	Steam Pit	NOI	No
16-220-OPN-4 Sanitary Sewer	1UR1	Restroom	No Change	No
	1UR2	Restroom	No Change	
	1LV1	Restroom	No Change	
	1LV2	Restroom	No Change	
	1SD1	Restroom	No Change	
	1WF1	Hallway	No Change	
16-220-OPN-5	RD2	Roof	Locate or repipe	No
16-220-OPN-6		Fire Water Vent	NOI	No
16-220-OPN-7		Condensate Vent	NOI	No
16-220-OPN-8		Condensate Vent	NOI	No

TABLE 3: TA 16-221 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OF RECOMMENDATIONS	EPA FORM PREPARED
16-221-OPN-1		Condensate vent	NOI	No
16-221-OPN-2		Condensate vent	NOI	No
16-221-OPN-3	RD1	Roof	Locate or repipe	No
	RD2	Roof	Locate or repipe	
16-221-OPN-4	SPD1	Steam pit	NOI	No

TABLE 4: TA 16-222 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
16-222-OPN-1	RD1	Roof	Locate or repipe	No
16-222-OPN-2	RD2	Roof	Locate or repipe	No
	RD3	Roof	Locate or repipe	
16-222-OPN-3 06A073	1SD2	Office	Repipe to Sanitary Sewer	Yes
	1SD4	Photo Process	No change	
	1SD5	Photo Process	No change	
	1SD6	Photo Process	No change	
	1FD6	Photo Process	No change	
	1FD7	Photo Process	No change	
	1FD8	Photo Process	No change	
	1FD9	Photo Process	No change	
	1FD10	Photo Process	No change	
	1FD11	Photo Process	No change	
	1FD12	Equipment Room	No change	
	1EQD1	Equipment Room	Remove chemical drums	
16-222-OPN-4 Sanitary Sewer	1WF1	Office	No change	No
	1FD1	Equipment Room	No change	
	1FD2	Equipment Room	No change	
	1FD3	Restroom	No change	
	1FD4	Restroom	No change	
	1SD1	Equipment Room	No change	
	1LV1	Restroom	No change	
	1LV2	Restroom	No change	
	1T1	Restroom	No change	
	1T2	Restroom	No change	
	1UR1	Restroom	No change	
16-222-OPN-5	RD4	Roof	Locate or repipe	No
16-222-OPN-6	1SPD1	Steam Pit	NOI	No
16-222-OPN-7		Condensate Vent	NOI	No
16-222-OPN-8		Condensate Vent	NOI	No
16-222-OPN-9		Condensate Vent	NOI	No
16-222-OPN-10		Condensate Vent	Disconnected	No
16-222-OPN-11		Fire Water Vent	NOI	No

TABLE 5: TA 16-223 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OF RECOMMENDATIONS	EPA FORM PREPARED
16-223-OPN-1		Condensate vent	NOI	No
16-223-OPN-2		Condensate vent	NOI	No
16-223-OPN-3	RD1	Roof	Locate or repipe	No
	RD2	Roof	Locate or repipe	
16-223-OPN-4	SPD1	Steam pit	NOI	No

TABLE 6: TA 16-224 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
16-224-OPN-1	RD1	Roof	Locate or repipe	No
	RD4	Roof	Locate or repipe	
16-224-OPN-2	1FD1	X-ray room	Plug drain	No
	1FD2	X-ray room	Plug drain	
16-224-OPN-3	RD2	Roof	Locate or repipe	No
	RD3	Roof	Locate or repipe	
16-224-OPN-4 Sanitary Sewer	1WF1	Hallway	No change	No
	1SD1	Equipment room	No change	
	1SD2	Restroom	No change	
	1SD3	Restroom	No change	
	1UR1	Restroom	No change	
	1UR2	Restroom	No change	
	1FD3	Equipment room	No change	
	1FD4	Equipment room	No change	
	1FD5	Restroom	No change	
	1FD6	Restroom	No change	
	1LV1	Restroom	No change	
16-224-OPN-5	1SPD1	Steam pit	NOI	No
16-224-OPN-6		Condensate vent	NOI	No
16-224-OPN-7		Condensate vent	NOI	No
16-224-OPN-8		Fire water vent	NOI	No

TABLE 7: TA 16-225 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OF RECOMMENDATIONS	EPA FORM PREPARED
16-225-OPN-1		Condensate vent	NOI	No
16-225-OPN-2		Condensate vent	NOI	No
16-225-OPN-3	RD1	Roof	Locate or repipe	No
	RD2	Roof	Locate or repipe	
16-225-OPN-4	SPD1	Steam pit	NOI	No

TABLE 8: TA 16-226 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
16-226-OPN-1	RD1	Roof	Locate or repipe	No
	RD4	Roof	Locate or repipe	
16-226-OPN-2	1FD1	X-ray room	Plug drain	No
	1FD2	X-ray room	Plug drain	
16-226-OPN-3	RD2	Roof	Locate or repipe	No
	RD3	Roof	Locate or repipe	
16-226-OPN-4 Sanitary Sewer	1WF1	Hallway	No change	No
	1SD1	Equipment room	No change	
	1SD2	Restroom	No change	
	1SD3	Restroom	No change	
	1UR1	Restroom	No change	
	1UR2	Restroom	No change	
	1FD3	Equipment room	No change	
	1FD4	Equipment room	No change	
	1FD5	Restroom	No change	
	1FD6	Restroom	No change	
	1LV1	Restroom	No change	
16-226-OPN-5	1SPD1	Steam pit	No change	No
16-226-OPN-6		Condensate vent	NOI	No
16-226-OPN-7		Condensate vent	NOI	No
16-226-OPN-8		Fire water vent	NOI	No

REPORT 7

TA	BLDG	OUTLET PIPING NUMBER	EPA OUTFALL #	DRAIN #	ROOM DESCRIPTION	FLOW	RATE	PERIODICITY	SEASONAL	ROOM #	SOURCE TYPES
16	220	16-220-OPN-1		RD1	ROOF			MOSTLY SUMMER	no	ROOF	RAIN
16	220	16-220-OPN-2	04A070	1FD1	COOLING WATER	1	GPM	1 PER WK/8 HR	no	101	NON CONTACT COOLING WATER
16	220	16-220-OPN-2	04A070	1FD2	COOLING WATER	1	GPM	1 PER WK/8 HR	no	101	NON CONTACT COOLING WATER
16	220	16-220-OPN-2	04A070	1FD3	COOLING WATER	1	GPM	1 PER WK/8 HR	no	101	NON CONTACT COOLING WATER
16	220	16-220-OPN-2	04A070	1FD4	CHILLER WATER			FLOW IS NIL	no	106	CHILLER WATER
16	220	16-220-OPN-2	04A070	1FD5	REST ROOM	10	GPD	1 TIME PER WEEK	no	105	FLOOR WASHINGS
16	220	16-220-OPN-2	04A070	1FD6	REST ROOM	10	GPD	FLOW IS NIL	no	104	FLOOR WASHINGS
16	220	16-220-OPN-2	04A070	1FD7	HE VACUUM	10	GPD	1 PER WEEK	no	106	COOLING WATER
16	220	16-220-OPN-2	04A070	1FD8	COOLING WATER	10	GPM	1 PER WEEK/8 HR	no	102	COOLING WATER
16	220	16-220-OPN-3		SPD1	STEAM PIT			FLOW IS NIL	no	106	STEAM CONDENSATE
16	220	16-220-OPN-4	03S	1LV1	REST ROOM			4 DAYS PER WEEK	no	105	HAND WASHING
16	220	16-220-OPN-4	03S	1LV2	REST ROOM			4 DAYS PER WEEK	no	104	HAND WASHING
16	220	16-220-OPN-4	03S	1SD1	REST ROOM			4 DAYS PER WEEK	no	104	SINK
16	220	16-220-OPN-4	03S	1UR1	REST ROOM			4 DAYS PER WEEK	no	105	SANITARY WASTE
16	220	16-220-OPN-4	03S	1UR2	REST ROOM			4 DAYS PER WEEK	no	104	SANITARY WASTE
16	220	16-220-OPN-4	03S	1WF1	HALL WAY			4 DAYS PER WEEK	no	101	DRINKING WATER
16	220	16-220-OPN-5		RD2	ROOF			MOSTLY IN SUMMER	no		RAIN
16	220	16-220-OPN-6			FIRE WATER			1 OR 2 TIMES PER YEAR	no	106	FIRE WATER
16	220	16-220-OPN-7			CONDENSATE			FLOW IS NIL	no	106	STEAM CONDENSATE
16	220	16-220-OPN-8			CONDENSATE			FLOW IS NIL	no	106	STEAM CONDENSATE
16	221	16-221-OPN-1			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	221	16-221-OPN-2			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	221	16-221-OPN-3		RD1	ROOF			MOSTLY SUMMER	no	102	RAIN
16	221	16-221-OPN-3		RD2	ROOF			MOSTLY SUMMER	no	101	RAIN
16	221	16-221-OPN-4		1SPD1	STEAM PIT			FLOW IS NIL	no	102	STEAM CONDENSATE
16	222	16-222-OPN-01		RD1	ROOF			MOSTLY IN SUMMER	no		RAIN
16	222	16-222-OPN-02		RD2	ROOF			MOSTLY IN SUMMER	no		RAIN
16	222	16-222-OPN-02		RD3	ROOF			MOSTLY IN SUMMER	no		RAIN
16	222	16-222-OPN-03	06A073	1EQD1	EQUIPMENT DRAIN			FLOW IS NIL	no	104	EQUIPMENT DRAIN
16	222	16-222-OPN-03	06A073	1FD06	PHOTO PROCESSING	3	GPM	6 HR/ 4 DAY WK	no	102	PHOTO RINSE
16	222	16-222-OPN-03	06A073	1FD07	PHOTO PROCESSING			FLOW IS NIL	no	101	FLOOR WASHINGS
16	222	16-222-OPN-03	06A073	1FD08	PHOTO PROCESSING			FLOW IS NIL	no	101	FLOOR WASHINGS
16	222	16-222-OPN-03	06A073	1FD09	PHOTO PROCESSING			FLOW IS NIL	no	101	FLOOR WASHINGS
16	222	16-222-OPN-03	06A073	1FD10	PHOTO PROCESSING	3	GPM	6 HR/ 4 DAY WEEK	no	103	PHOTO RINSE
16	222	16-222-OPN-03	06A073	1FD11	PHOTO PROCESSING			FLOW IS NIL	no	101	FLOOR WASHINGS
16	222	16-222-OPN-03	06A073	1FD12	EQUIPMENT DRAIN			FLOW IS NIL	no	104	FLOOR WASHINGS
16	222	16-222-OPN-03	06A073	1SD2	OFFICE SINK	3	GPD	8 HR WORK DAY	no	106	SINK
16	222	16-222-OPN-03	06A073	1SD4	PHOTO PROCESSING	2	GPD	4 DAYS PER WEEK	no	102	PHOTO RINSE

REPORT 7

TA	BLDG	OUTLET PIPING NUMBER	EPA OUTFALL #	DRAIN #	ROOM DESCRIPTION	FLOW	RATE	PERIODICITY	SEASONAL	ROOM #	SOURCE TYPES
16	222	16-222-OPN-03	06A073	1SD5	PHOTO PROCESSING	2	GPD	4 DAYS PER WEEK	no	101	PHOTO RINSE
16	222	16-222-OPN-03	06A073	1SD6	PHOTO PROCESSING	2	GPD	4 DAYS PER WEEK	no	103	PHOTO RINSE
16	222	16-222-OPN-04	03S	1FD01	CHILLER	5	GPM	DURING PEAK HOURS	no	110	CHILLER WATER
16	222	16-222-OPN-04	03S	1FD02	EQUIPMENT ROOM			FLOW IS NIL	no	110	FLOOR WASHINGS
16	222	16-222-OPN-04	03S	1FD03	REST ROOM			FLOW IS NIL	no	109	FLOOR WASHINGS
16	222	16-222-OPN-04	03S	1FD04	REST ROOM			FLOW IS NIL	no	108	FLOOR WASHINGS
16	222	16-222-OPN-04	03S	1LV1	REST ROOM			4 DAYS PER WEEK	no	108	SANITARY WASTE
16	222	16-222-OPN-04	03S	1LV2	REST ROOM			4 DAYS PER WEEK	no	109	HAND WASHING
16	222	16-222-OPN-04	03S	1SD1	EQUIPMENT ROOM			4 DAYS PER WEEK	no	110	SINK
16	222	16-222-OPN-04	03S	1T1	REST ROOM			4 DAYS PER WEEK	no	108	SANITARY WASTE
16	222	16-222-OPN-04	03S	1T2	REST ROOM			4 DAYS PER WEEK	no	109	SANITARY WASTE
16	222	16-222-OPN-04	03S	1UR1	REST ROOM			4 DAYS PER WEEK	no	108	SANITARY WASTE
16	222	16-222-OPN-04	03S	1WF1	WATER FOUNTAIN			4 DAYS PER WEEK	no	104	DRINKING WATER
16	222	16-222-OPN-05		RD4	ROOF			MOSTLY IN SUMMER	no		RAIN
16	222	16-222-OPN-06		SPD1	STEAM PIT			FLOW IS NIL	no	110	STEAM CONDENSATE
16	222	16-222-OPN-07			CONDENSATE			FLOW IS NIL	no	110	STEAM CONDENSATE
16	222	16-222-OPN-08			CONDENSATE			FLOW IS NIL	no	110	STEAM CONDENSATE
16	222	16-222-OPN-09			CONDENSATE			DISCONNECTED	no	110	NONE
16	222	16-222-OPN-10			CONDENSATE			FLOW IS NIL	no	110	STEAM CONDENSATE
16	222	16-222-OPN-11		RD4	FIRE WATER			1 OR 2 TIMES PER YEAR	no	110	FIRE WATER
16	223	16-223-OPN-1			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	223	16-223-OPN-2			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	223	16-223-OPN-3		RD1	ROOF			MOSTLY SUMMER	no	102	RAIN
16	223	16-223-OPN-3		RD2	ROOF			MOSTLY SUMMER	no	101	RAIN
16	223	16-223-OPN-4		1SPD1	STEAM PIT			FLOW IS NIL	no	102	STEAM CONDENSATE
16	224	16-224-OPN-1		RD1	ROOF			MOSTLY SUMMER	no		RAIN
16	224	16-224-OPN-1		RD4	ROOF			MOSTLY SUMMER	no		RAIN
16	224	16-224-OPN-2		1FD1	X-RAY ROOM			FLOW IS NIL	no	101	FLOOR WASHINGS
16	224	16-224-OPN-2		1FD2	X-RAY ROOM			FLOW IS NIL	no	101	FLOOR WASHINGS
16	224	16-224-OPN-3		RD2	ROOF			MOSTLY SUMMER	no		RAIN
16	224	16-224-OPN-3		RD3	ROOF			MOSTLY SUMMER	no		RAIN
16	224	16-224-OPN-4	03S	1FD3	CHILLER	0.5	GPM	4 HR PER DAY	no	103	CHILLER DRAIN
16	224	16-224-OPN-4	03S	1FD4	CHILLER	0.5	GPM	4 HR PER DAY	no	103	CHILLER DRAIN
16	224	16-224-OPN-4	03S	1FD5	REST ROOM			FLOW IS NIL	no	105	FLOOR WASHINGS
16	224	16-224-OPN-4	03S	1FD6	REST ROOM			FLOW IS NIL	no	104	FLOOR WASHINGS
16	224	16-224-OPN-4	03S	1LV1	REST ROOM			4 DAYS PER WEEK	no	105	HAND WASHING
16	224	16-224-OPN-4	03S	1SD1	EQUIPMENT ROOM			4 DAYS PER WEEK	no	103	SINK
16	224	16-224-OPN-4	03S	1SD2	REST ROOM			4 DAYS PER WEEK	no	104	SINK

REPORT 7

TA	BLDG	OUTLET PIPING NUMBER	EPA OUTFALL #	DRAIN #	ROOM DESCRIPTION	FLOW	RATE	PERIODICITY	SEASONAL	ROOM #	SOURCE TYPES
16	224	16-224-OPN-4	03S	1SD3	REST ROOM			4 DAYS PER WEEK	no	105	SINK
16	224	16-224-OPN-4	03S	1UR1	REST ROOM			4 DAYS PER WEEK	no	105	SANITARY WASTE
16	224	16-224-OPN-4	03S	1UR2	REST ROOM			4 DAYS PER WEEK	no	104	SANITARY WASTE
16	224	16-224-OPN-4	03S	1WF1	WATER FOUNTAIN			4 DAYS PER WEEK	no	104	DRINKING WATER
16	224	16-224-OPN-5		1SPD1	STEAM PIT			FLOW IS NIL	no	103	STEAM CONDENSATE
16	224	16-224-OPN-6			CONDENSATE			FLOW IS NIL	no	103	STEAM CONDENSATE
16	224	16-224-OPN-7			CONDENSATE			FLOW IS NIL	no	103	STEAM CONDENSATE
16	224	16-224-OPN-8			FIRE WATER			1 OR 2 TIMES PER YEAR	no	103	FIRE WATER
16	225	16-225-OPN-1			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	225	16-225-OPN-2			CONDENSATE			FLOW IS NIL	no	102	STEAM CONDENSATE
16	225	16-225-OPN-3		RD1	ROOF			MOSTLY SUMMER	no	102	RAIN
16	225	16-225-OPN-3		RD2	ROOF			MOSTLY SUMMER	no	101	RAIN
16	225	16-225-OPN-4		1SPD1	STEAM PIT			FLOW IS NIL	no	102	STEAM CONDENSATE
16	226	16-226-OPN-1		RD1	ROOF			MOSTLY SUMMER	no		RAIN
16	226	16-226-OPN-1		RD4	ROOF			MOSTLY SUMMER	no		RAIN
16	226	16-226-OPN-2		1FD1	X-RAY ROOM			FLOW IS NIL	no	101	FLOOR WASHINGS
16	226	16-226-OPN-2		1FD2	X-RAY ROOM			FLOW IS NIL	no	101	FLOOR WASHINGS
16	226	16-226-OPN-3		RD2	ROOF			MOSTLY SUMMER	no		RAIN
16	226	16-226-OPN-3		RD3	ROOF			MOSTLY SUMMER	no		RAIN
16	226	16-226-OPN-4	03S	1FD5	REST ROOM			FLOW IS NIL	no	105	FLOOR WASHINGS
16	226	16-226-OPN-4	03S	1FD6	REST ROOM			FLOW IS NIL	no	104	FLOOR WASHINGS
16	226	16-226-OPN-4	03S	1FD3	CHILLER	0.5	GPM	4 HR PER DAY	no	103	CHILLER DRAIN
16	226	16-226-OPN-4	03S	1FD4	CHILLER	0.5	GPM	4 HR PER DAY	no	103	CHILLER DRAIN
16	226	16-226-OPN-4	03S	1LV1	REST ROOM			4 DAYS PER WEEK	no	105	HAND WASHING
16	226	16-226-OPN-4	03S	1SD1	EQUIPMENT ROOM			4 DAYS PER WEEK	no	103	SINK
16	226	16-226-OPN-4	03S	1SD2	REST ROOM			4 DAYS PER WEEK	no	104	SINK
16	226	16-226-OPN-4	03S	1SD3	REST ROOM			4 DAYS PER WEEK	no	105	SINK
16	226	16-226-OPN-4	03S	1UR1	REST ROOM			4 DAYS PER WEEK	no	105	SANITARY WASTE
16	226	16-226-OPN-4	03S	1UR2	REST ROOM			4 DAYS PER WEEK	no	104	SANITARY WASTE
16	226	16-226-OPN-4	03S	1WF11	WATER FOUNTAIN			4 DAYS PER WEEK	no	104	DRINKING WATER
16	226	16-226-OPN-5		1SPD1	STEAM PIT			FLOW IS NIL	no	103	STEAM CONDENSATE
16	226	16-226-OPN-6			CONDENSATE			FLOW IS NIL	no	103	STEAM CONDENSATE
16	226	16-226-OPN-7			CONDENSATE			FLOW IS NIL	no	103	STEAM CONDENSATE
16	226	16-226-OPN-8			FIRE WATER			1 OR 2 TIMES PER YEAR	no	103	FIRE WATER

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (Copy from Item 1 of Form 1): NM 0890010515

OMB No. 2040-0086
Approval expires 7-31-88

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
04A-070	35	51	.36	106	20	52.8	Valle Canyon

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
070	TA-16-220 X-ray Building	430 GPD	NONE		

C. TAX ZONE ONLY (effluent guidelines sub-categories)

. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

[X] YES *(complete the following table)* [ ] NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DURATION *(in days)*
070	Non-contact cooling water	1	12	4.3×10^{-4}	6.45×10^{-2}	430 GPD	645 GPD	8 H/D

I. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

[ ] YES *(complete Item III-B)* [X] NO *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

[ ] YES *(complete Item III-C)* [X] NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*

IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

[ ] YES *(complete the following table)* [ ] NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED
NPDES Permit NM0028355					

OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. [ ] MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

NM 0890010515

Approval expires 7 31 88

. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
N/A			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

s any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or yproduct?

☐ YES *(list all such pollutants below)* ☒ NO *(go to Item VI-B)*

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* X NO *(go to Section VIII)*

VIII CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* X NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
JERRY L. BELLOWS, DOE AREA MANAGER	505-667-5105
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-9390
C. SIGNATURE	D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 04A070

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 3.3						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 16.3						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	.59	960.3						mg/l	mg/d			
d. Total Suspended Solids *(TSS)*	18.0	29.3						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	162.8						mg/l	mg/d			
f. Flow	VALUE 430		VALUE		VALUE			gal/day	of non-contact cooling	VALUE		water
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE NA		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM 8.3	MAXIMUM 8.9				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 813.8						mg/l	mg/d			
b. Chlorine, Total Residual	X		0.05	81.4						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		.21	341.8						mg/l	mg/d			
f. Nitrate-Nitrite *(as N)*	X		.304	494.8						mg/l	mg/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 813.8						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 1.7						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.05	81.4						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	162.8						pCi/l	pCi/l			
(2) Beta, Total	X		6.6	10.7						pCi/l	nCi/l			
(3) Radium, Total	X													
(4) Radium 226, Total	X		.06	97.7						pCi/l	pCi/l			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	5.1						mg/l	g/d			
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X	< .05	< 81.4						mg/l	mg/d			
n. Surfactants		X	< .1	< 162.8						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 65.1						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	48.8						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	32.6						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< .1	< 162.8						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	667.3						mg/l	mg/d			
t. Magnesium, Total (7439-95-4)	X		2.5	4.1						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)		X	< .02	< 32.6						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		.01	16.3						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< .050	< 81.4						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< .004	< 6.5						mg/l	mg/d			

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< .050	< 81.4						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		.002	3.3						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< .001	< 1.6						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< .010	< 16.3						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.040	65.1						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		.031	50.5						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< .050	< 81.4						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 325.5						mg/l	ug/d			
9M. Nickel, Total (7440-02-0)		X		0.06	97.7						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 1.6						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< .010	< 16.3						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 0.7						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		.043	70.0						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	< .01	< 16.3						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 16.3						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetra chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< .005	< 8.1						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< .005	< 8.1						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< .005	< 8.1						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< .005	< 8.1						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< .005	< 8.1						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< .010	< 16.3						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< .005	< 8.1						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< .005	< 8.1						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< .005	< 8.1						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< .005	< 8.1						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< .005	< 8.1						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< .005	< 8.1						mg/l	mg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X	< .005	< 8.1						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< .010	< 16.3						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< .010	< 16.3						mg/l	mg/d			

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< .005	< 8.1						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< .005	< 8.1						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< .005	< 8.1						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< .005	< 8.1						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< .005	< 8.1						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< .005	< 8.1						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< .005	< 8.1						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< .005	< 8.1						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< .005	< 8.1						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< .010	< 16.3						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< .010	< 16.3						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< .010	< 16.3						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< .010	< 16.3						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< .010	< 16.3						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< .010	< 16.3						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< .010	< 16.3						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< .010	< 16.3						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< .010	< 16.3						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< .010	< 16.3						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< .010	< 16.3						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< .010	< 16.3						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< .010	< 16.3						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< .010	< 16.3						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< .010	< 16.3						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< .010	< 16.3						mg/l	mg/d			
5B. Benzo (a) Anthracene (56-55-3)			X	< .010	< 16.3						mg/l	mg/d			
6B. Benzo (a) Pyrene (50-32-8)			X	< .010	< 16.3						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< .010	< 16.3						mg/l	mg/d			
8B. Benzo (ghi) Perylene (191-24-2)			X	< .010	< 16.3						mg/l	mg/d			
9B. Benzo (k) Fluoranthene (207-08-9)			X	< .010	< 16.3						mg/l	mg/d			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	< .010	< 16.3						mg/l	mg/d			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	< .010	< 16.3						mg/l	mg/d			
12B. Bis (2-Chloroiso-propyl) Ether (102-60-1)			X	< .010	< 16.3						mg/l	mg/d			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	< .010	< 16.3						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< .010	< 16.3						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< .010	< 16.3						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< .010	< 16.3						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< .010	< 16.3						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< .010	< 16.3						mg/l	mg/d			
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	< .010	< 16.3						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< .010	< 16.3						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< .010	< 16.3						mg/l	mg/d			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< .010	< 16.3						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< .010	< 16.3						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< .010	< 16.3						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< .010	< 16.3						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< .010	< 16.3						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< .010	< 16.3						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< .010	< 16.3						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< .010	< 16.3						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X	< .010	< 16.3						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< .010	< 16.3						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< .010	< 16.3						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< .010	< 16.3						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< .010	< 16.3						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< .010	< 16.3						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< .010	< 16.3						mg/l	mg/d			
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X	< .010	< 16.3						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< .010	< 16.3						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< .010	< 16.3						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< .010	< 16.3						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< .010	< 16.3						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< .010	< 16.3						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< .010	< 16.3						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< .010	< 16.3						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< .010	< 16.3						mg/l	mg/d			
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X	< .010	< 16.3						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< .06	< 97.7						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< .02	< 32.6						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< .1	< 162.8						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< .03	< 48.8						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< .12	< 195.3						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< .25	< 406.9						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< .06	< 97.7						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< .08	< 130.2						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< .08	< 130.2						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< .08	< 130.2						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< .05	< 81.4						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< .08	< 130.2						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< .09	< 146.5						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< .06	< 97.7						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< .62	< 1.0						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< .03	< 48.8						ug/l	ug/d			

CONTINUE ON PAGE V-9

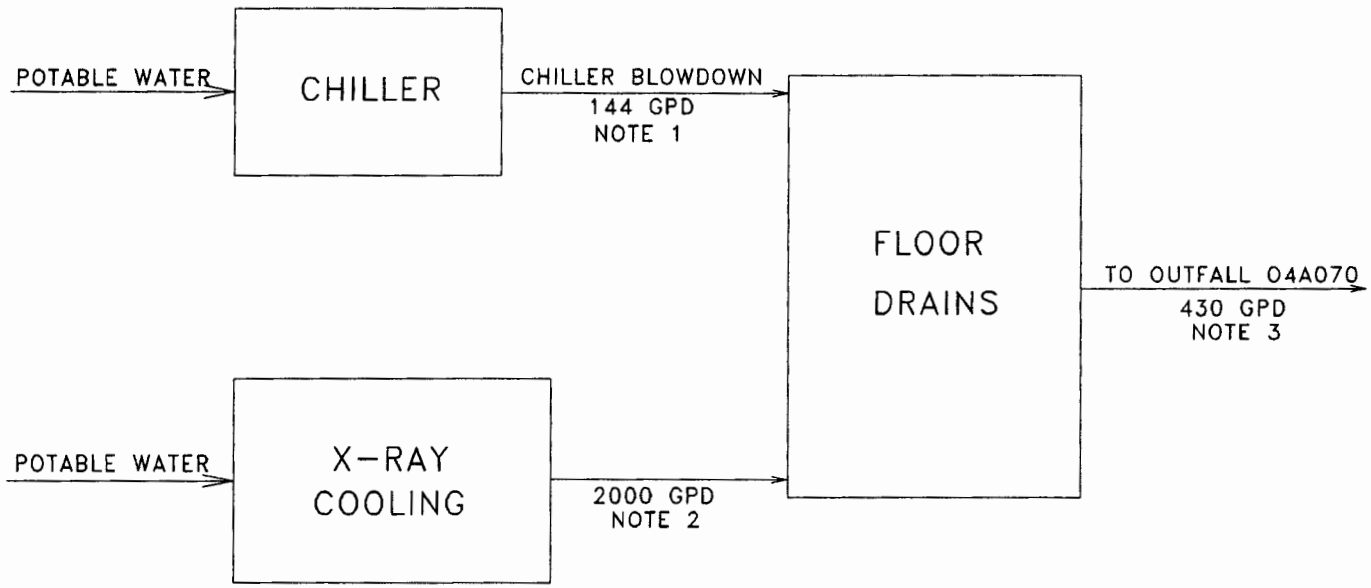
CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item I of Form 1)	OUTFALL NUMBER
NM0890010515	04A070

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	< .04	< 65.1						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< .68	< 1.1						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< .68	< 1.1						ug/l	mg/d			
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X	< .68	< 1.1						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X	< 2.5	< 4.1						ug/l	mg/d			

SCHEMATIC OF WATER FLOW
OUTFALL 16-220-OPN-4



NOTES

NOTE 1 – APPROXIMATELY ONE GALLON EVERY TEN MINUTES

NOTE 2 – 2000 GPD USED APPROXIMATELY ONE TIME PER WEEK

NOTE 3 – ESTIMATED DAILY AVERAGE FOR ENTIRE YEAR

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (from Item 1 of Form 1) NM0890010515

Form Approved. OMB No. 2040-0086. Approval expires 7-31-88

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE 1. DEG.	2. MIN.	3. SEC.	C. LONGITUDE 1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
06A073	35	51	0	106	20	50	VALLE CANYON

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW a. OPERATION (list)	b. AVERAGE FLOW (include units)	3. TREATMENT a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
073	TA 16-22 PHOTO WASTE	785 GPD	SILVER RECOVERY	2L	

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

[X] YES *(complete the following table)* [ ] NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DURATION *(in days)*
073	PHOTO WASTE	4	12	785 GPD	785 GPD	785 GPD	785 GPD	6 H/D

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

[ ] YES *(complete Item III-B)* [X] NO *(to to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

[ ] YES *(complete Item III-C)* [X] NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*
NA			

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

[ ] YES *(complete the following table)* [X] NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. [ ] MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

EPA I.D. NUMBER (copy from Item 1 of Form 1)
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V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
N/A			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES *(list all such pollutants below)* ☒ NO *(go to Item VI-B)*

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* X NO *(go to Section VIII)*

VIII CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* X NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
JERRY L. BELLOWS, DOE AREA MANAGER	505-667-5105
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-9390
C. SIGNATURE	D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 06A073

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCENTRATION	b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	33.6	99.8						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	35.0	104.0						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	6.1	18.1						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	< 1.0	< 3.0						mg/l	g/d			
e. Ammonia *(as N)*	7.5	22.3						mg/l	g/d			
f. Flow	VALUE 785		VALUE		VALUE			gal/day	of photo rinse water	VALUE		
g. Temperature *(winter)*	VALUE 2.31		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE NA		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 7.0	MAXIMUM 8.9	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.1	9.2						mg/l	g/d			
b. Chlorine, Total Residual		X	0.0							mg/l	mg/d			
c. Color	X		10							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		.30	891.4						mg/l	mg/d			
f. Nitrate-Nitrite *(as N)*	X		.357	1.1						mg/l	g/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		15.6	46.4						mg/l	g/d			
h. Oil and Grease	X		4.22	12.5						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.156	463.5						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		.5	1.5						pCi/l	nCi/d			
(2) Beta, Total	X		6.7	19.9						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		.05	148.6						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		77.3	229.7						mg/l	g/d			
l. Sulfide (as S)		X	< .05	< 148.6						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)	X		13.1	38.9						mg/l	g/d			
n. Surfactants		X	< .1	< 297.1						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)	X		.56	1.7						mg/l	g/d			
p. Barium, Total (7440-39-3)	X		.03	89.1						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		.52	1.5						mg/l	g/d			
r. Cobalt, Total (7440-48-4)		X	< .1	< 297.1						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		.74	2.2						mg/l	g/d			
t. Magnesium, Total (7439-95-4)	X		3.3	9.8						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)		X	< .02	< 59.4						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		.01	29.7						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< .050	< 148.6						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< .004	< 11.9						mg/l	mg/d			

CONTINUE ON PAGE V - 3

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	06A073

Form Approved.
OMB No. 2040-0086
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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< .050	< 148.6						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)			X	< .002	< 5.9						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< .001	< 3.0						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< .010	< 29.7						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.087	258.5						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		.052	154.5						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< .050	< 148.6						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 594.2						mg/l	ug/d			
9M. Nickel, Total (7440-02-0)		X		.16	475.4						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)		X		.001	3.0						mg/l	mg/d			
11M. Silver, Total (7440-22-4)		X		.472	1.4						mg/l	g/d			
12M. Thallium, Total (7440-28-0)		X		1.0	3.0						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		.045	133.7						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	< .01	< 29.7						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 29.7						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetra chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< .005	< 14.9						mg/l	mg/d			
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< .005	< 14.9						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< .005	< 14.9						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< .005	< 14.9						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< .005	< 14.9						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< .010	< 29.7						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< .005	< 14.9						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< .005	< 14.9						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< .005	< 14.9						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< .005	< 14.9						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< .005	< 14.9						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< .005	< 14.9						mg/l	mg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X	< .005	< 14.9						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< .010	< 29.7						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< .010	< 29.7						mg/l	mg/d			

CONTINUE ON PAGE V-

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	06A073

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< .005	< 14.9						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< .005	< 14.9						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< .005	< 14.9						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< .005	< 14.9						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< .005	< 14.9						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< .005	< 14.9						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< .005	< 14.9						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< .005	< 14.9						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< .005	< 14.9						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< .010	< 29.7						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< .010	< 29.7						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< .010	< 29.7						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< .010	< 29.7						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< .010	< 29.7						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< .010	< 29.7						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< .010	< 29.7						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< .010	< 29.7						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< .010	< 29.7						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< .010	< 29.7						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< .010	< 29.7						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< .010	< 29.7						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< .010	< 29.7						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< .010	< 29.7						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< .010	< 29.7						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< .010	< 29.7						mg/l	mg/d			
5B. Benzo (a) Anthracene (56-55-3)			X	< .010	< 29.7						mg/l	mg/d			
6B. Benzo (a) Pyrene (50-32-8)			X	< .010	< 29.7						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< .010	< 29.7						mg/l	mg/d			
8B. Benzo (ghi) Perylene (191-24-2)			X	< .010	< 29.7						mg/l	mg/d			
9B. Benzo (k) Fluoranthene (207-08-9)			X	< .010	< 29.7						mg/l	mg/d			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	< .010	< 29.7						mg/l	mg/d			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	< .010	< 29.7						mg/l	mg/d			
12B. Bis (2-Chloroiso-propyl) Ether (102-60-1)			X	< .010	< 29.7						mg/l	mg/d			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	< .010	< 29.7						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< .010	< 29.7						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< .010	< 29.7						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< .010	< 29.7						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< .010	< 29.7						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< .010	< 29.7						mg/l	mg/d			
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	< .010	< 29.7						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< .010	< 29.7						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< .010	< 29.7						mg/l	mg/d			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	06A073

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< .010	< 29.7						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< .010	< 29.7						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< .010	< 29.7						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< .010	< 29.7						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< .010	< 29.7						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< .010	< 29.7						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< .010	< 29.7						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< .010	< 29.7						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X	< .010	< 29.7						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< .010	< 29.7						mg/l	mg/d			
32B. Fluorene (86-73-7)		X		.28	831.9						ug/l	ug/d			
33B. Hexachlorobenzene (118-74-1)			X	< .010	< 29.7						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< .010	< 29.7						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< .010	< 29.7						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< .010	< 29.7						mg/l	mg/d			
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X	< .010	< 29.7						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< .010	< 29.7						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< .010	< 29.7						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< .010	< 29.7						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< .010	< 29.7						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< .010	< 29.7						mg/l	mg/d			

CONTINUE ON PAGE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< .010	< 29.7						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< .010	< 29.7						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< .010	< 29.7						mg/l	mg/d			
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X	< .010	< 29.7						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< .06	< 178.3						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< .04	< 118.8						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< .1	< 297.1						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< .06	< 178.3						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< .12	< 356.5						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< .25	< 742.8						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< .06	< 178.3						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< .08	< 237.7						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< .08	< 237.7						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< .08	< 237.7						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< .05	< 148.6						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< .08	< 237.7						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< .09	< 267.4						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< .06	< 178.3						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< .31	< 921.1						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< .06	< 178.3						ug/l	ug/d			

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CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	06A073

Form Approved
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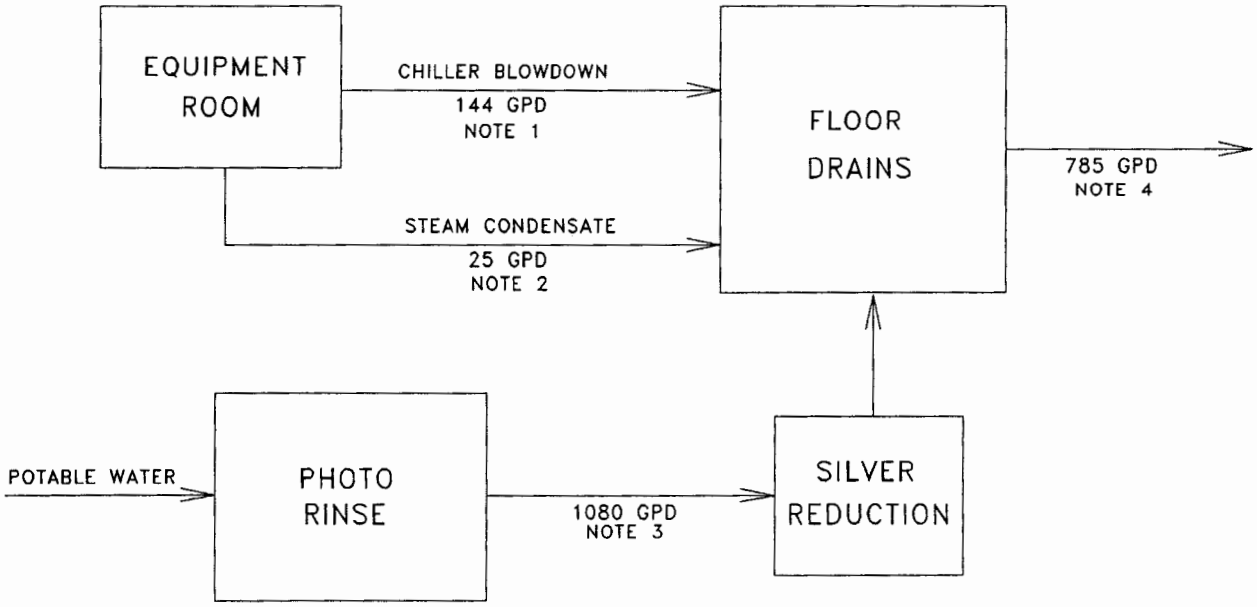
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	< .08	< 237.7						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< .78	< 2.3						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< .78	< 2.3						ug/l	mg/d			
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X	< .78	< 2.3						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X	< 2.5	< 7.4						ug/l	mg/d			

SCHEMATIC OF WATER FLOW
OUTFALL 16-222-OPN-10



NOTES

NOTE 1 – ESTIMATED PUMPING RATE: 25 GALLONS/CYCLE, AT 1GPM, AND 1 CYCLE/DAY

NOTE 2 – APPROXIMATELY ONE GALLON EVERY TEN MINUTES

NOTE 3 – OUTFALL FOUR DAYS PER WEEK

NOTE 4 – ESTIMATED DAILY AVERAGE FOR ENTIRE YEAR

DYE STUDY REPORT FOR BUILDINGS
16-220, 16-221, 16-222, 16-223, 16-224, 16-225 AND 16-226
COMPILED BY ENGINEERING AND INFORMATION RESOURCES (WX-12)

BUILDING 220--Field investigated August 31, 1990.

DRAIN No	DRAIN LOCATION	END OF PIPE
1FD1	RM 101	16-220-OPN-2 EPA outlet 04A070
1FD2	RM 101A	16-220-OPN-2 EPA outlet 04A070
1FD3	RM 101B	16-220-OPN-2 EPA outlet 04A070
1FD4	RM 106	16-220-OPN-2 EPA outlet 04A070
1FD5	RM 105	16-220-OPN-2 EPA outlet 04A070
1FD6	RM 104	16-220-OPN-2 EPA outlet 04A070
1FD7	RM 106	16-220-OPN-2 EPA outlet 04A070
1FD8	RM 102	16-220-OPN-2 EPA outlet 04A070
1VSD1	RM 102	16-220-OPN-2 EPA outlet 04A070
RD1	Roof Drain	16-220-OPN-1
RD2	Roof Drain	16-220-OPN-2

BUILDING 221--Field investigated August 31, 1990.
There is not a water source available to do the dye testing. The end of pipe location could not be located during the investigation.

BUILDING 222--Field investigated August 31, 1990.

DRAIN No	DRAIN LOCATION	END OF PIPE
1FD1	RM 110	16-222-OPN-4 sanitary sewer
1FD2	RM 110	16-222-OPN-4 sanitary sewer
1FD3	RM 109	16-222-OPN-4 santiary sewer
1FD4	RM 104	16-222-OPN-4 santiary sewer
1FD5	RM 106	16-222-OPN-3 EPA outfall 06A073
1FD6	RM 103	16-222-OPN-3 EPA outfall 06A073
1FD7	RM 101	16-222-OPN-3 EPA outfall 06A073
1FD8	RM 101	16-222-OPN-3 EPA outfall 06A073
1FD9	RM 101	16-222-OPN-3 EPA outfall 06A073
1FD10	RM 103	16-222-OPN-3 EPA outfall 06A073
1FD11	RM 101	16-222-OPN-3 EPA outfall 06A073
1FD11	RM 104	16-222-OPN-3 EPA outfall 06A073
1SD1	RM 101	16-222-OPN-4 sanitary sewer
1SD2	RM 106	16-222-OPN-3 EPA outfall 06A073
1SD3	RM 106	16-222-OPN-4 sanitary sewer
1SD4	RM 102	16-222-OPN-3 EPA outfall 06A073
1SD5	RM 101	16-222-OPN-3 EPA outfall 06A073
RD1	Roof Drain	16-222-OPN-1
RD2	Roof Drain	16-222-OPN-2
RD3	Roof Drain	16-222-OPN-2
RD4	Roof Drain	16-222-OPN-5

BUILDING 223--Field investigated August 31, 1990.
There is not a water source available to do the dye testing. The end of pipe location could not be located during the investigation.

BUILDING 224--Field investigated August 31, 1990.

DRAIN No	DRAIN LOCATION	END OF PIPE
1FD1	RM 101	16-224-OPN-2
1FD2	RM 101	16-224-OPN-2
1FD3	RM 103	16-224-OPN-4 santiary sewer
1FD4	RM 103	16-224-OPN-4 santiary sewer
1FD5	RM 105	16-224-OPN-4 sanitary sewer
1FD6	RM 104	16-224-OPN-4 sanitary sewer
1SD1	RM 103	16-224-OPN-4 sanitary sewer
RD1	Roof Drain	16-224-OPN-1
RD2	Roof Drain	16-224-OPN-3
RD3	Roof Drain	16-224-OPN-3
RD4	Roof Drain	16-224-OPN-1

BUILDING 225--Field investigated September 11, 1990.
There is not a water source available to do the dye testing. The end of pipe location could not be located during the investigation.

BUILDING 226--Field investigated Setember 11, 1990.

DRAIN No	DRAIN LOCATION	END OF PIPE
1FD1	RM 101	16-226-OPN-2
1FD2	RM 101	16-226-OPN-2
1FD3	RM 103	16-226-OPN-4 santiary sewer
1FD4	RM 103	16-226-OPN-4 santiary sewer
1FD5	RM 105	16-226-OPN-4 sanitary sewer
1FD6	RM 104	16-226-OPN-4 sanitary sewer
RD1	Roof Drain	16-226-OPN-1
RD2	Roof Drain	16-226-OPN-3
RD3	Roof Drain	16-226-OPN-1
RD4	Roof Drain	16-226-OPN-3

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - ABERCROMBIE CHECKER - PALMER ENGINEER - PALMER APPROVED -

TA-16-220
INDEX SHEET

13Y-192103 SHT 1----SITE DRAINAGE PLAN
13Y-192103 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192103 SHT 3----ROOF DRAIN PLAN
13Y-192103 SHT 4----POTENTIAL EFFLUENTS
13Y-192103 SHT 5----FIRST FLOOR ELECTRICAL HAZARD PLAN
13Y-192103 SHT 6----FIRST FLOOR EVACUATION PLAN

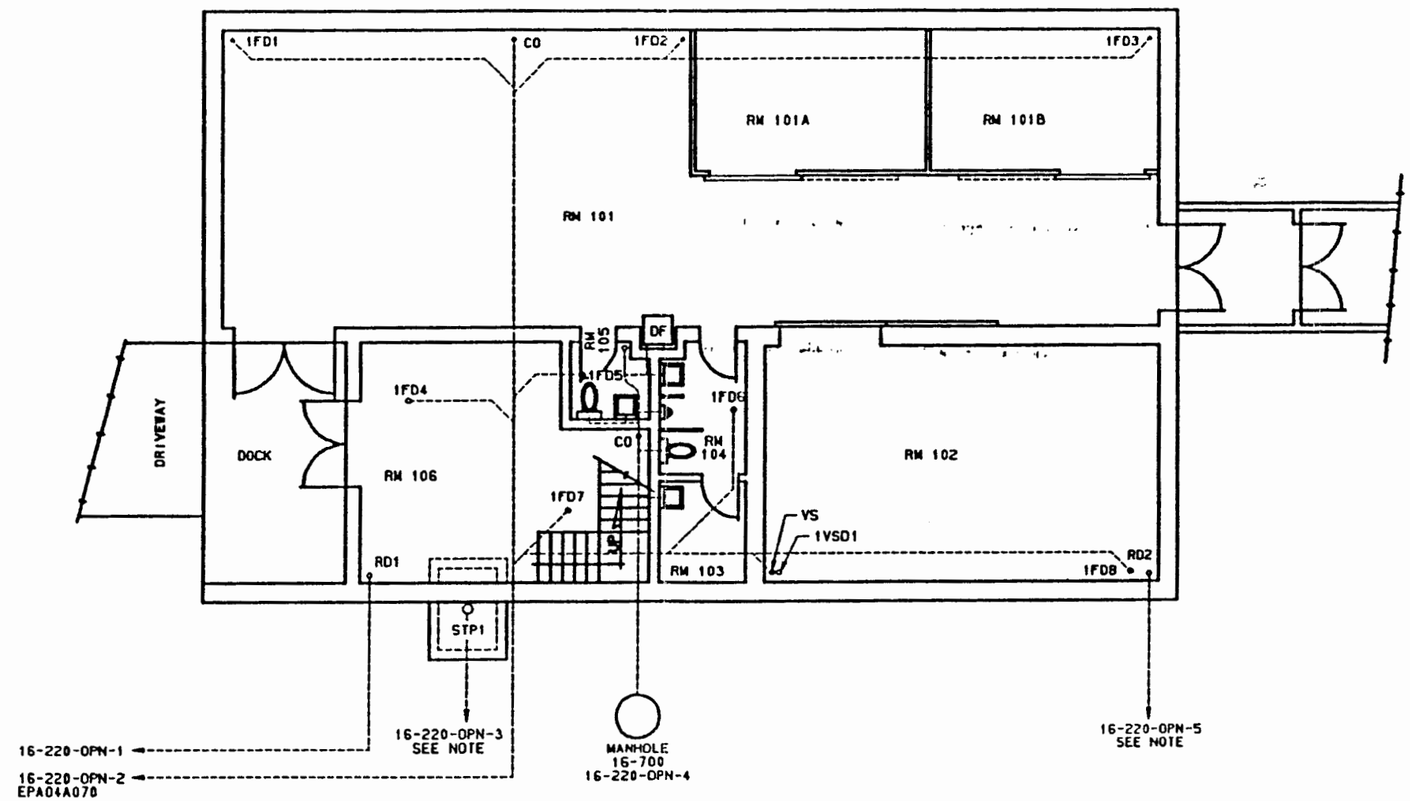
ENGLISH (FT/IN)
THIRD ANGLE PROJECTION

PART CODE: LOS ALAMOS NATIONAL LABORATORY
SHEET 0 | ISSUE A
PART CLASSIFICATION: UNCLASSIFIED
TITLE: (U) TITLE CLASSIFICATION
TA-16-220
INDEX SHEET
DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE D | DRAWING NUMBER 13Y-192103
05-29-91 08149 | FSCM 88516 | SCALE ---- | SHEET 0 OF -
STATUS | ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

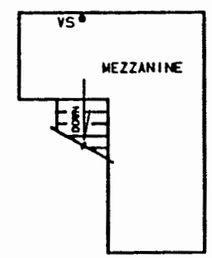
4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART 88 CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JMH	DRAWN BY - M. CATANACH 8/14/90 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"



MEZZANINE PLAN

SCALE: 1/4"=1'-0"

NOTE: THE STEAM PIT DRAIN AND THE RAIN DRAIN #2 WERE NOT VERIFIED. THE STEAM PIT DRAIN WAS PLUGGED. THE RAIN DRAIN OUTLET WAS COVERED WITH EARTH AND WAS NOT LOCATED.

LEGEND

1FD#	- FLOOR DRAIN
1PD#	- PIT DRAIN
1VSD#	- VENT STACK DRAIN
CO	- CLEAN OUT
RD	- RAIN DRAIN
VS	- VENT STACK

ENGLISH (FT/IN)

THIRD ANGLE PROJECTION

PART CODE: LOS ALAMOS NATIONAL LABORATORY

SHEET 2 | ISSUE A

PART CLASSIFICATION: UNCLASSIFIED

TITLE: (U) TITLE CLASSIFICATION

FIRST FLOOR
PLUMBING AND DRAIN PLAN
TA-16-220

DRAWING CLASSIFICATION: UNCLASSIFIED

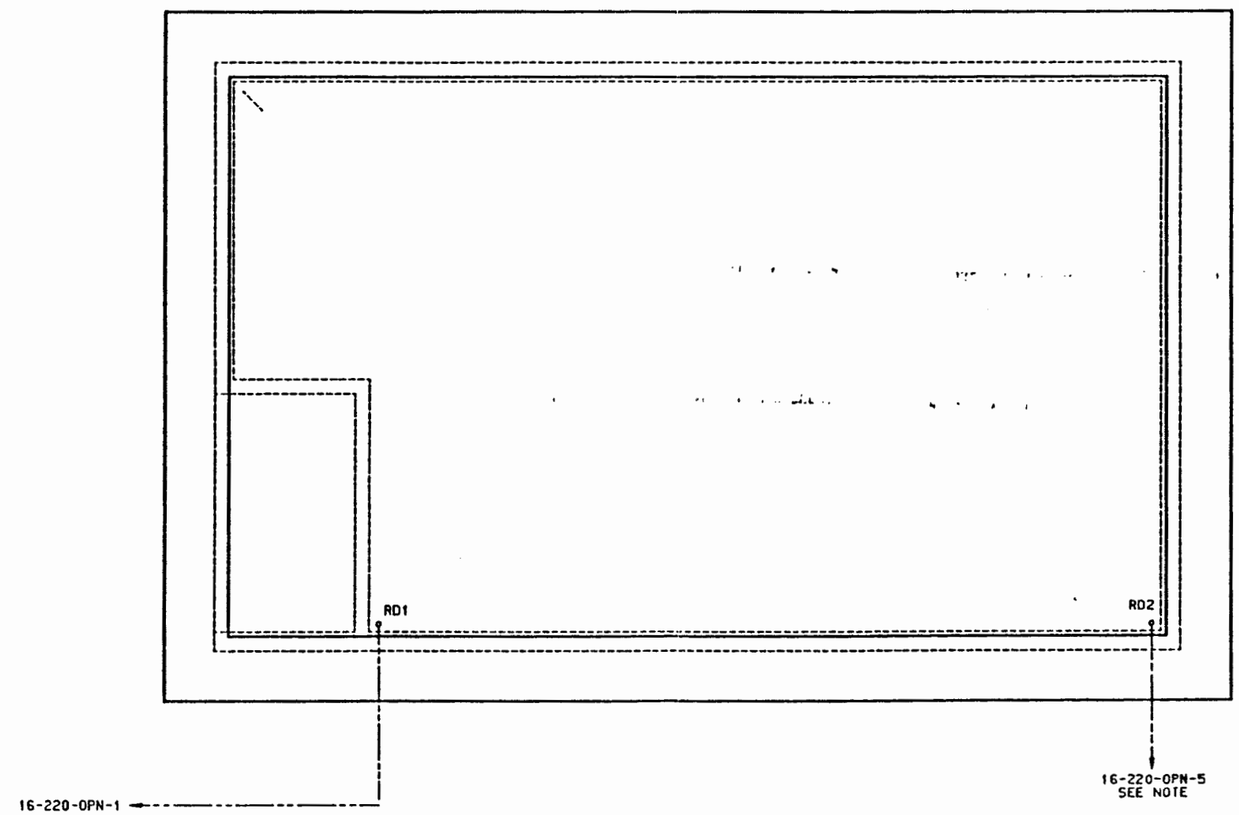
SIZE D | DRAWING NUMBER 13Y-192103

88-20-01 88154 | FSCM 88516 | SCALE NOTED | SHEET 2 OF -

STATUS | ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JMH	DRAWN BY - M. CATANACH 8/14/90 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



NOTE: THE STEAM PIT DRAIN AND THE RAIN DRAIN #2 WERE NOT VERIFIED. THE STEAM PIT DRAIN WAS PLUGGED. THE RAIN DRAIN OUTLET WAS COVERED WITH EARTH AND WAS NOT LOCATED.

ENGLISH (FT/IN)

THIRD ANGLE PROJECTION

PART CODE	LOS ALAMOS NATIONAL LABORATORY
SHEET 3 / ISSUE A	TITLE (U) TITLE CLASSIFICATION ROOF DRAIN PLAN TA-16-220
PART CLASSIFICATION	UNCLASSIFIED
DRAWING CLASSIFICATION	UNCLASSIFIED
SIZE D	DRAWING NUMBER 13Y-192103
90-26-01 08150	FSCM 88516 SCALE NOTED SHEET 3 OF -
STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	REVISIONS			
	ISS	CLASS REVIEW	DESCRIPTION	
N/A	A	J.H.	DRAWN BY - VISEL CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER	8-1-91

OUTFALL #2
EPA04A070

BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
16-220-OFN-1	ROOF	RD1	RAIN WATER
16-220-OFN-2	101	1FD1	150 X-RAY MACHINE, WATER, OIL
16-220-OFN-2	101	1FD2	300 MINELCO, WATER, OIL
16-220-OFN-2	101A	1FD2	140 PICHER, WATER, OIL
16-220-OFN-2	101B	1FD3	140 PICHER, WATER, OIL
16-220-OFN-2	102	1FD9	BALTIGRAPH, WATER, TRANSFORMER OIL, HYDRAULIC OIL; VETCOA, HYDRAULIC OIL
16-220-OFN-2	102	1VSH1	CONDENSATE CHILLER WATER
16-220-OFN-2	104	1FD8	WATER, DETERGENTS
16-220-OFN-2	105	1FD5	WATER, DETERGENTS
16-220-OFN-2	106	1FD4	HV-1, H2O-1; PC-1, H2O-1, OIL; PC-2, H2O-1, OIL; PVS-1, H2O-1, OIL
16-220-OFN-2	106	1FD7	CA-1, H2O-1, OIL; CA-2, H2O-1, OIL; PV-1, H2O-1, OIL; SA-1, H2O-1, OIL
16-220-OFN-3	STP	STP1	HV-1, WATER; PC-1, WATER, OIL; PC-2, WATER, OIL; PVS-1, WATER, OIL CA-1, WATER, OIL; CA-2, WATER, OIL; PV-1, WATER, OIL; SA-1, WATER, OIL
16-220-OFN-4	104	T/S	SANITARY WASTE-TOILETS AND SINKS
16-220-OFN-4	105	T/S	SANITARY WASTE-TOILETS AND SINKS
16-220-OFN-5	ROOF	RD2	RAIN WATER

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 4 / ISSUE A	TITLE (U) TITLE CLASSIFICATION DRAIN SCHEDULE TA-16-220	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y192103
THIRD ANGLE PROJECTION	08-20-91 09:03	FSCM 88516 / SCALE 1/1 / SHEET 4 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

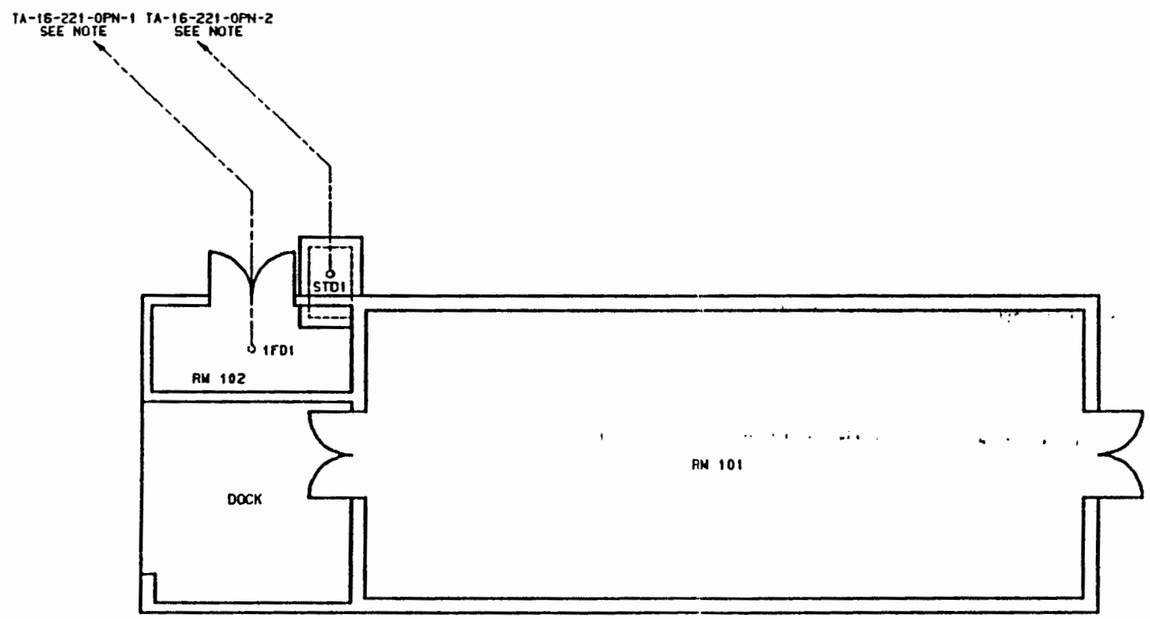
PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - ABERCROMBIE CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

TA-16-221
INDEX SHEET

13Y-192104 SHT 1----SITE DRAINAGE PLAN
13Y-192104 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192104 SHT 3----ROOF DRAIN PLAN
13Y-192104 SHT 4----POTENTIAL EFFLUENTS
13Y-192104 SHT 5----ELECTRICAL HAZARD PLAN
13Y-192104 SHT 6----EVACUATION PLAN

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	
	SHEET 0 / ISSUE A	TITLE: (U) TITLE CLASSIFICATION TA-16-221 INDEX SHEET
	PART CLASSIFICATION: UNCLASSIFIED	
THIRD ANGLE PROJECTION	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE: D / DRAWING NUMBER: 13Y-192104
	09-29-01 00:00	FSCM 88516 / SCALE 1/1 / SHEET 0 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - K. DUERRE CHECKER - ABERCROMBIE 9-15-90 ENGINEER - PALMER APPROVED - PALMER



FLOOR PLAN

SCALE: 1/4"=1'-0"

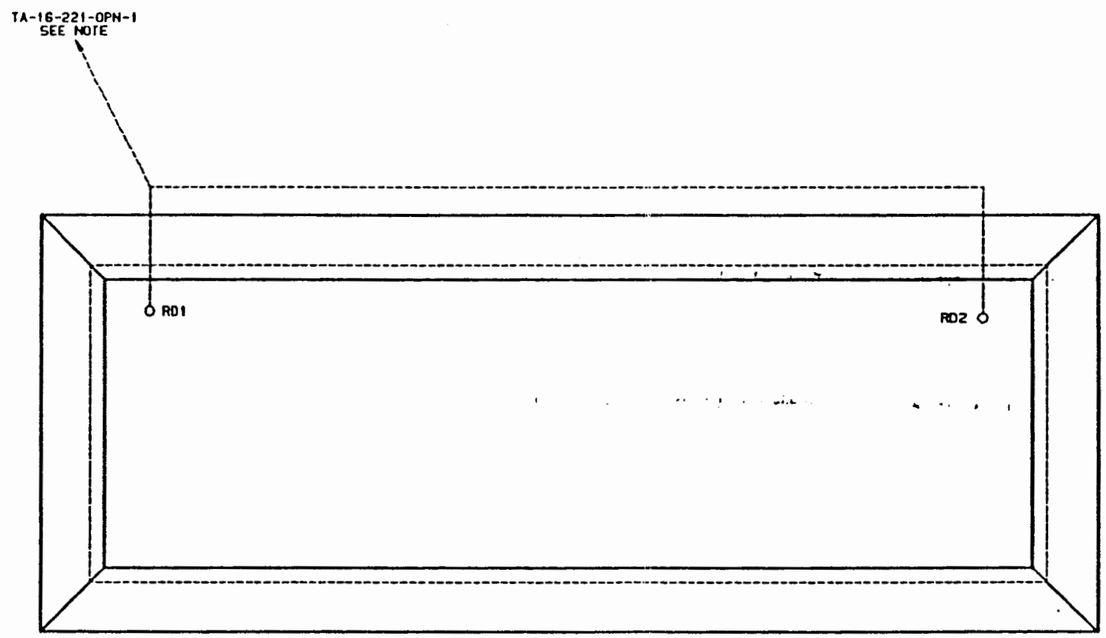
LEGEND

1FD1 - FLOOR DRAIN
STD1 - STEAM PIT DRAIN

NOTE: NEITHER THE FLOOR DRAIN, RAIN DRAIN OR THE STEAM PIT DRAIN COULD BE VERIFIED. THE OUTFALL LOCATION COULD NOT BE IDENTIFIED SINCE THERE IS NOT ANY INDUSTRIAL WATER AT THE REST HOUSE.

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	
	SHEET 2 / ISSUE A	TITLE: (U) TITLE CLASSIFICATION FIRST FLOOR PLUMBING AND DRAIN PLAN TA-16-221
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE: D / DRAWING NUMBER: 13Y-192104
THIRD ANGLE PROJECTION	09-20-91 09:12	FSCM 88516 / SCALE / SHEET 2 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - K. DUERRE CHECKER - ABERCROMBIE 9-15-90 ENGINEER - PALMER APPROVED - PALMER



ROOF PLAN

SCALE: 1/4"=1'-0"

LEGEND

RD# - ROOF DRAIN

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 3 / ISSUE A	TITLE (U) TITLE CLASSIFICATION ROOF DRAIN PLAN TA-16-221	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192104
THIRD ANGLE PROJECTION	90-20-01 00:18	FSCM 88516 / SCALE / SHEET 3 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED 4 | 3 | 2 | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	LS	DRAWN BY - ABERCROMBIE 10-15-90 CHECKER - HYDE ENGINEER - PALMER 10-15-90 APPROVED - PALMER

OUTFALLS COULD NOT BE VERIFIED.
OUTFALLS WERE NOT VISUALLY LOCATED.
DRAINS COULD NOT BE TESTED SINCE THERE WAS NOT ANY WATER AVAILABLE.

AREA OUTFALL NO	BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
AOF1	BOF1	ROOF	RD1	RAIN WATER
	BOF1	ROOF	RD2	RAIN WATER
AOF1	BOF2	102	1FD1	CA-1, WATER, OIL; PC-1, WATER, OIL; PC-2, WATER, OIL

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	TITLE: (UNC) TITLE CLASSIFICATION DRAIN SCHEDULE TA-16-221
	SHEET 4 / ISSUE A	
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE: C / DRAWING NUMBER: 13Y-192104
THIRD ANGLE PROJECTION	09-20-91 09:19	FSCM 88516 / SCALE 1/1 / SHEET 4 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED 4 | 3 | 2 | 1 UNCLASSIFIED

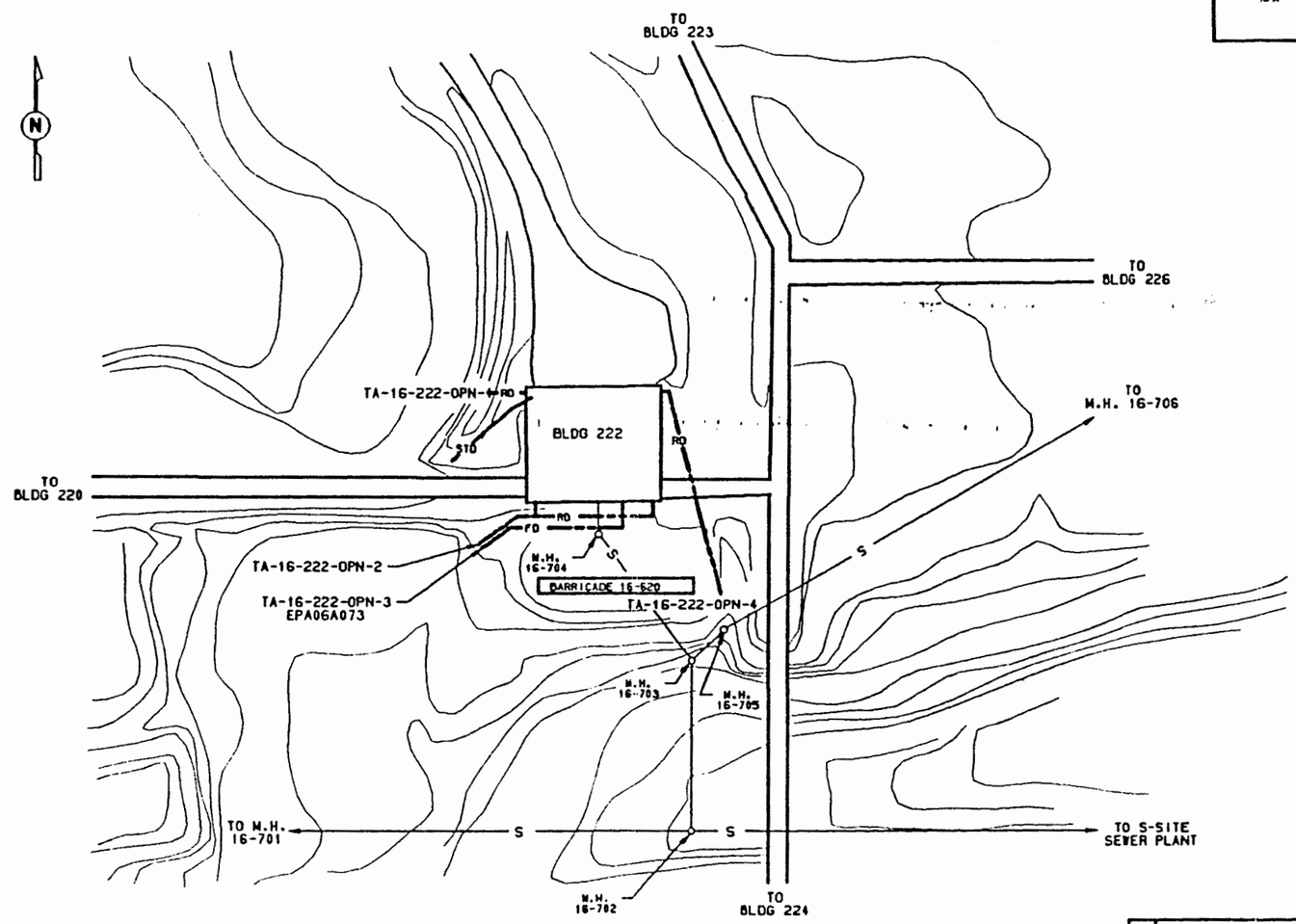
PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 6-4-91 CHECKER - ABERCROMBIE ENGINEER - PALMER APPROVED -

TA-16-222
INDEX SHEET

13Y-192105 SHT 1----SITE DRAINAGE PLAN
13Y-192105 SHT 2----FIRST FLOOR DRAIN PLAN
13Y-192105 SHT 3----ROOF DRAIN PLAN
13Y-192105 SHT 4----POTENTIAL EFFLUENTS
13Y-192105 SHT 5----FIRST FLOOR ELECTRICAL HAZARD PLAN
13Y-192105 SHT 6----FIRST FLOOR EVACUATION PLAN

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 0 / ISSUE A	TITLE (U) TITLE CLASSIFICATION INDEX SHEET TA-16-222	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192105
THIRD ANGLE PROJECTION	09-29-91 09:25 / FSCM 88516 / SCALE 1/1 / SHEET 0 OF -	
	STATUS / ORIGIN LA-ICEMPLUS-V2.03	

PART OR CONTROL NUMBER	REVISIONS		
	REV	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 6-4-91 CHECKER - ABERCROMBIE ENGINEER - PALMER APPROVED - PALMER



LEGEND

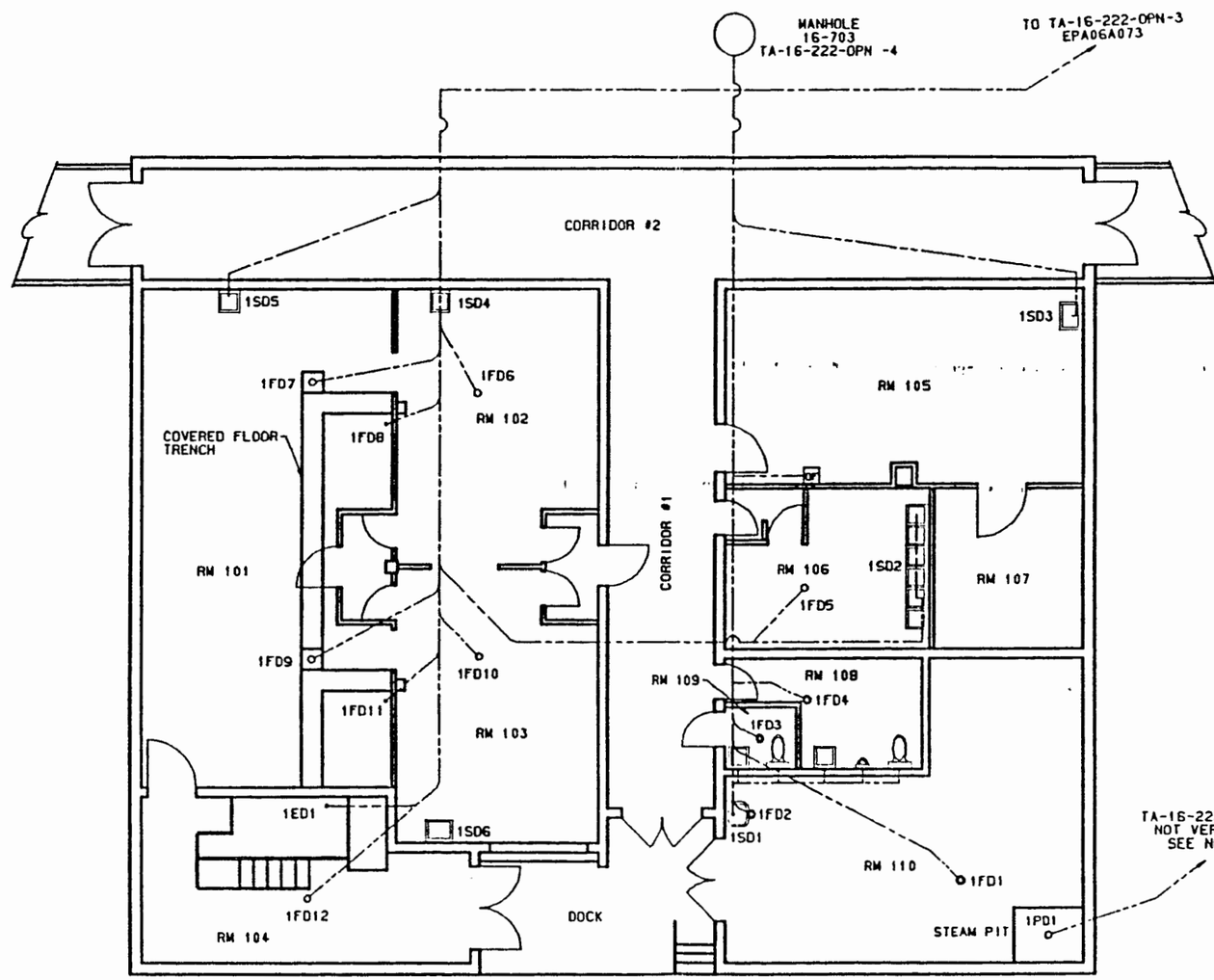
SEWER LINE---------- —— S ——
FLOOR DRAIN LINE---- ---- FD ----
RAIN DRAIN LINE----- ---- RD ----
STEAM PIT LINE------ ----STD----

NOTE

1. THE STEAM PIT DRAIN WAS PLUGGED. THE LOCATION OF THE OUTFALL IS BASED UPON THE CIVIL GROUP LAYOUT ENG DWG. C15605.

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	
	SHEET 1 / ISSUE A	TITLE (U) TITLE CLASSIFICATION SITE DRAINAGE PLAN BLDG 222 TA-16-222
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192105
THIRD ANGLE PROJECTION	09-20-91 09:32 / PSCN 88516 / SCALE / SHEET 1 OF	
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JH	DRAWN BY - KING 9-4-90 CHECKER - ABERCROMBIE ENGINEER - PALMER APPROVED - PALMER



NOTE: THE STEAM PIT DRAIN COULD NOT BE VERIFIED.
THE STEAM PIT DRAIN IS PLUGGED.

TA-16-222-OPN-6
NOT VERIFIED
SEE NOTE

FIRST FLOOR PLAN

SCALE: 1/4"-1'

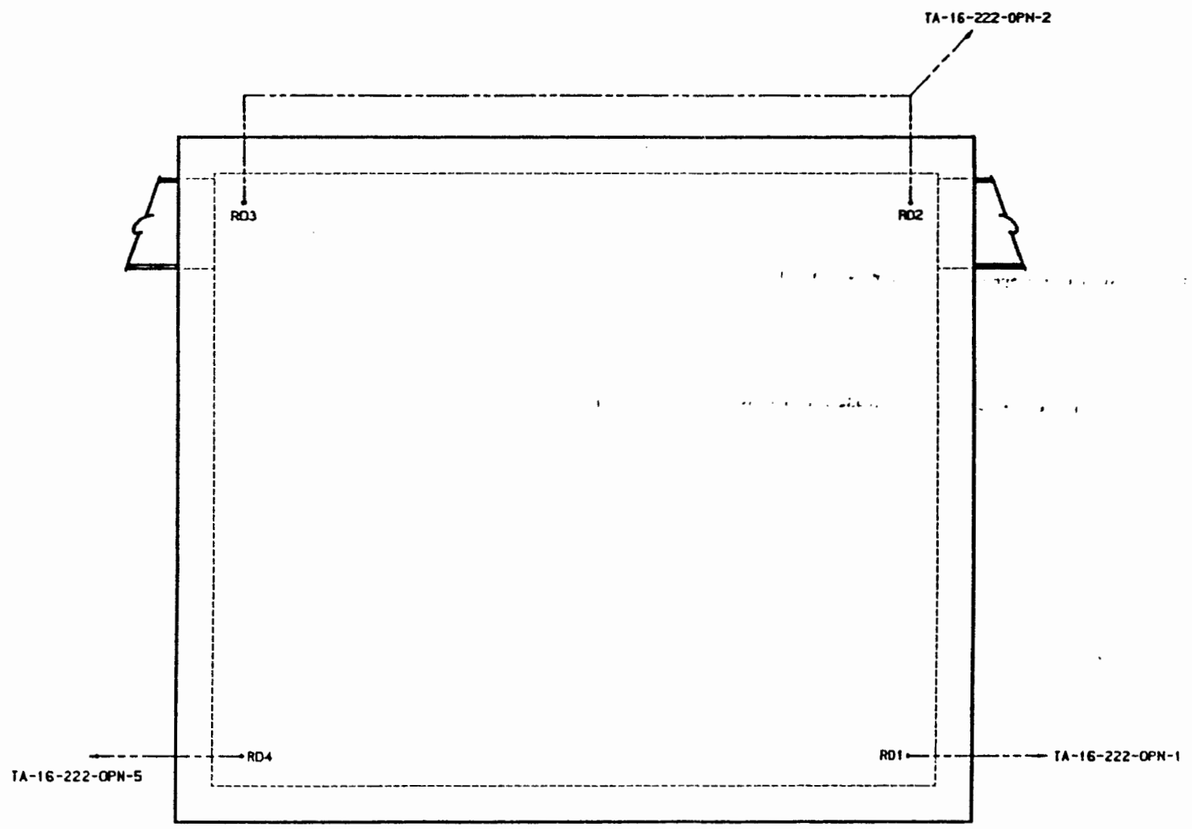
LEGEND

1FD#------FLOOR DRAIN
1ED#------EQUIPMENT DRAIN
1SD#------SINK DRAIN
1PD#------STEAM PIT DRAIN
DF--------DRINKING FOUNTAIN

PART CODE	LOS ALAMOS NATIONAL LABORATORY
SHEET 2 / ISSUE A	TITLE (U) TITLE CLASSIFICATION: PLUMBING AND DRAIN PLAN FIRST FLOOR TA-16-222
PART CLASSIFICATION	UNCLASSIFIED
ENGLISH (FT/IN)	DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE D	DRAWING NUMBER 13Y-192105
THIRD ANGLE PROJECTION	09-29-91 09:50 / FSCM 88516 / SCALE / SHEET 2 OF -
STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JH	DRAWN BY - VISEL 6-11-91 CHECKER - ABERCROMBIE ENGINEER - DON PALMER APPROVED - PALMER



ROOF DRAIN PLAN
SCALE: 3/16"=1'

LEGEND
RD#------RAIN DRAIN #

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 3 / ISSUE A	TITLE (U) TITLE CLASSIFICATION ROOF DRAIN PLAN TA-16-222	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192105
THIRD ANGLE PROJECTION	09-20-91 08:30	FSCM 88516 SCALE 1/50 SHEET 3 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 6-5-91 CHECKER - ABERCROMBIE ENGINEER - PALMER APPROVED - PALMER

	BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
	BOF1	ROOF	RD1	RAIN WATER
	BOF2	ROOF	RD2	RAIN WATER
	BOF2	ROOF	RD3	RAIN WATER
OUTFALL #3 EPA06A073	BOF3	101	1FD6	INDUSTRIAL WATER
	BOF3	101	1FD7	INDUSTRIAL WATER, DEVELOPER, SILVER
	BOF3	101	1FD8	PLUGGED
	BOF3	101	1FD9	INDUSTRIAL WATER, DEVELOPER, SILVER
	BOF3	101	1FD11	PLUGGED
	BOF3	102	1FD4	INDUSTRIAL WATER
	BOF3	102	1FD5	INDUSTRIAL WATER, DEVELOPER, SILVER, LEAD
	BOF3	103	1FD10	INDUSTRIAL WATER
	BOF3	103	1FD6	INDUSTRIAL WATER
	BOF3	104	1FD12	INDUSTRIAL WATER, DEVELOPER, CAUSTIC SODA ACID
	BOF3	104	1FD13	INDUSTRIAL WATER, DEVELOPER, CAUSTIC SODA ACID
	BOF3	105	1FD5	INDUSTRIAL WATER
	BOF3	105	1FD2	INDUSTRIAL WATER
TO SANITARY SEWER SYSTEM	BOF4 304-16-764	110	1FD1	INDUSTRIAL WATER, DETERGENTS
	BOF4	110	1FD1	CR-2 OIL, WATER; CBR-1 WATER; TRC-1 WATER; TCA-1 OIL, WATER; PC-1 OIL, WATER TCS-2 WATER; PC-2 OIL, WATER; CRE-1 WATER; PCB-1 FREON, WATER
	BOF4	110	1FD2	CR-2 OIL, WATER; CBR-1 WATER; TRC-1 WATER; TCA-1 OIL, WATER; PC-1 OIL, WATER TCS-2 WATER; PC-2 OIL, WATER; CRE-1 WATER; PCB-1 FREON, WATER
	BOF4	108	T/S	SANITARY WASTE-TOILETS & SINKS
	BOF4	108	1FD4	INDUSTRIAL WATER
	BOF4	109	T/S	SANITARY WASTE-TOILETS & SINKS
	BOF4	109	1FD3	INDUSTRIAL WATER
	BOF4	106	1FD5	INDUSTRIAL WATER
	BOF4	108	DF	DRINKING WATER
	BOF5	ROOF	RD4	RAIN WATER
	BOF5	110	1FD1	CR-2 OIL, WATER; CBR-1 WATER; TRC-1 WATER; TCA-1 OIL, WATER; PC-1 OIL, WATER TCS-2 WATER; PC-2 OIL, WATER; CRE-1 WATER; PCB-1 FREON, WATER

ENGLISH (FT/IN)

THIRD ANGLE PROJECTION

PART CODE

LOS ALAMOS NATIONAL LABORATORY

SHEET 4

ISSUE A

PART CLASSIFICATION UNCLASSIFIED

TITLE (U) TITLE CLASSIFICATION

DRAIN SCHEDULE
TA-16-222

DRAWING CLASSIFICATION UNCLASSIFIED

SIZE D

DRAWING NUMBER 13Y-192105

90-20-01 09142

FSCM 88516 SCALE 1/1 SHEET 4 OF -

STATUS

ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-25-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

TA-16-223
INDEX SHEET

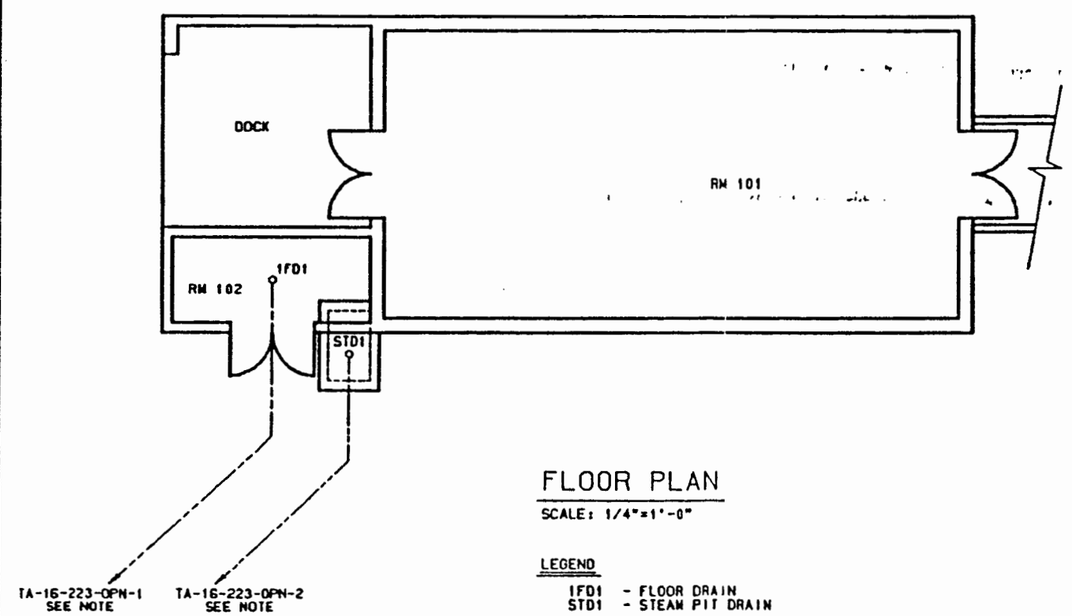
13Y-192106 SHT 1----SITE DRAINAGE PLAN
13Y-192106 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192106 SHT 3----ROOF DRAIN PLAN
13Y-192106 SHT 4----POTENTIAL EFFLUENTS
13Y-192106 SHT 5----ELECTRICAL HAZARD PLAN
13Y-192106 SHT 6----EVACUATION PLAN

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	TITLE: (U) TITLE CLASSIFICATION TA-16-223 INDEX SHEET
	SHEET 0 / ISSUE A	
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE: D / DRAWING NUMBER: 13Y-192106
THIRD ANGLE PROJECTION	09-20-91 11:13:38	FSCM 88516 / SCALE 1/1 / SHEET 0 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-25-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



FLOOR PLAN

SCALE: 1/4"=1'-0"

LEGEND

1FD1 - FLOOR DRAIN
STD1 - STEAM PIT DRAIN

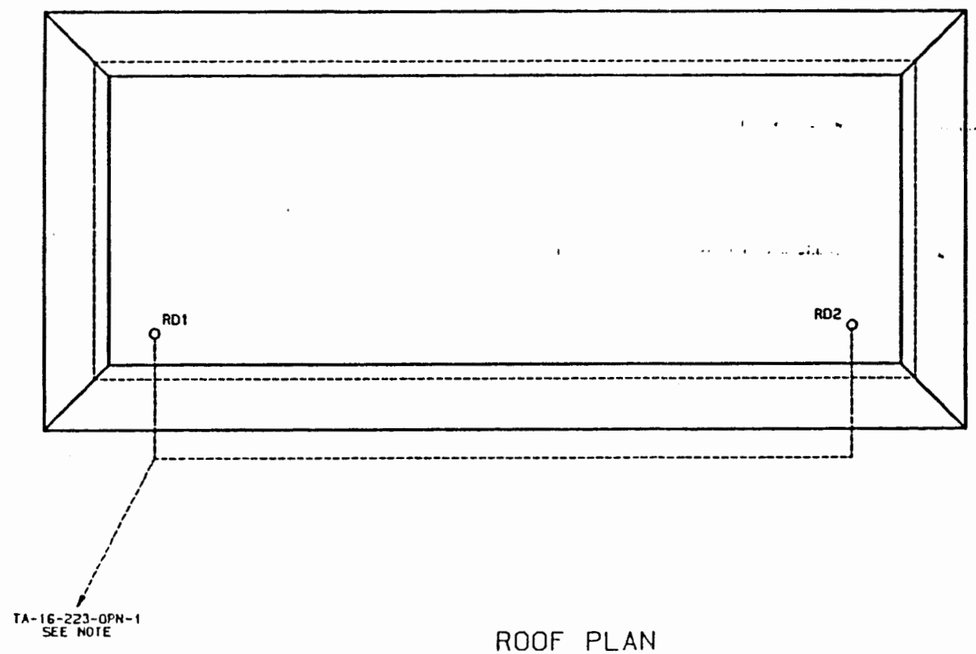
NOTE: NEITHER THE FLOOR DRAIN, RAIN DRAIN OR THE STEAM PIT DRAIN COULD BE VERIFIED. THE OUTFALL LOCATION COULD NOT BE IDENTIFIED SINCE THERE IS NOT ANY INDUSTRIAL WATER AT THE REST HOUSE.

PART CODE	LOS ALAMOS NATIONAL LABORATORY
SHEET 2 / ISSUE A	TITLE (U) TITLE CLASSIFICATION FIRST FLOOR PLUMBING AND DRAIN PLAN TA-16-223
PART CLASSIFICATION	UNCLASSIFIED
ENGLISH (FT/IN)	DRAWING CLASSIFICATION: UNCLASSIFIED
THIRD ANGLE PROJECTION	SIZE D / DRAWING NUMBER 13Y-192106
09-20-01 11:34	FSCM 88516 / SCALE / SHEET 2 OF -
STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-25-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



ROOF PLAN

SCALE: 1/4"=1'-0"

LEGEND

RD# - ROOF DRAIN

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	
	SHEET 3 / ISSUE A	TITLE (U) TITLE CLASSIFICATION: ROOF DRAIN PLAN TA-16-223
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192106
THIRD ANGLE PROJECTION	08-29-91 11:58	FSCM 88516 / SCALE / SHEET 3 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
X	A		DRAWN BY - VISEL 7-25-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

OUTFALLS COULD NOT BE VERIFIED.
OUTFALLS WERE NOT VISUALLY LOCATED.
DRAINS COULD NOT BE TESTED SINCE THERE WAS NOT ANY WATER AVAILABLE.

BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
16-223-OPN-1	ROOF	RD1	RAIN WATER
	ROOF	RD2	RAIN WATER
16-223-OPN-2	102	1FD1	CA-1, WATER, OIL; PC-1, WATER, OIL; PC-2, WATER, OIL; P-075, WATER, OIL

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 4 / ISSUE A	TITLE (UNC) TITLE CLASSIFICATION DRAIN SCHEDULE TA-16-223	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE C / DRAWING NUMBER 13Y-192106
THIRD ANGLE PROJECTION	09-20-91 11:36	FSCM 89516 / SCALE 1/1 / SHEET 4 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	LTR	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - ABERCROMBIE CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

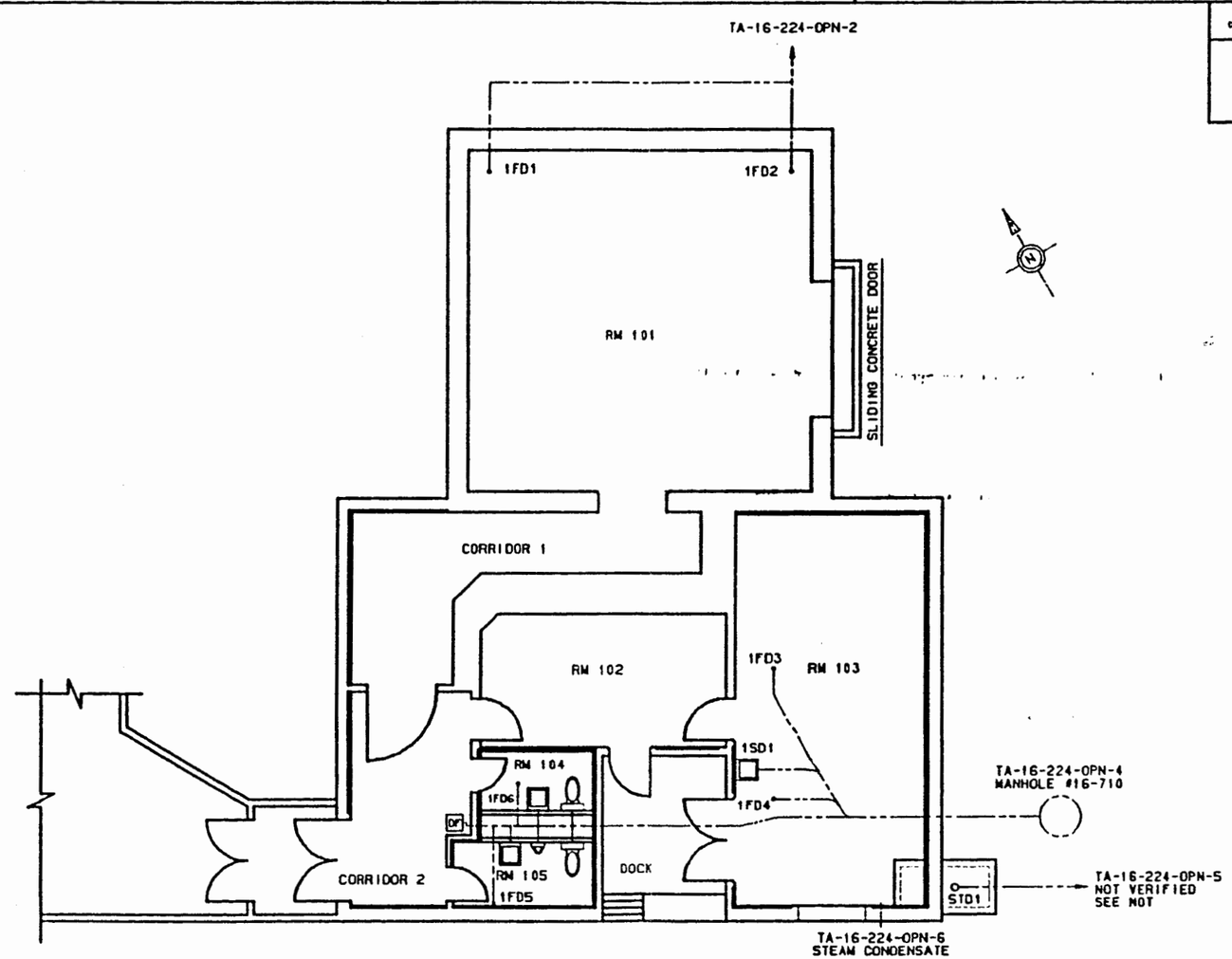
TA-16-224
INDEX SHEET

13Y-192107 SHT 1----SITE DRAINAGE PLAN
13Y-192107 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192107 SHT 3----ROOF DRAIN PLAN
13Y-192107 SHT 4----POTENTIAL EFFLUENTS
13Y-192107 SHT 5----ELECTRICAL HAZARD PLAN
13Y-192107 SHT 6----EVACUATION PLAN

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	
	SHEET 0 / ISSUE A	TITLE: (U) TITLE CLASSIFICATION TA-16-224 INDEX SHEET
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192107
THIRD ANGLE PROJECTION	99-23-01 09:44	FSCM 88516 / SCALE 1/1 / SHEET 0 OF -
	STATUS	ORIGIN LA-ICEWPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JH	DRAWN BY - L. SANCHEZ 8-16-90 CHECKER - L. ABERCROMBLIE ENGINEER - D. PALMER APPROVED - PALMER



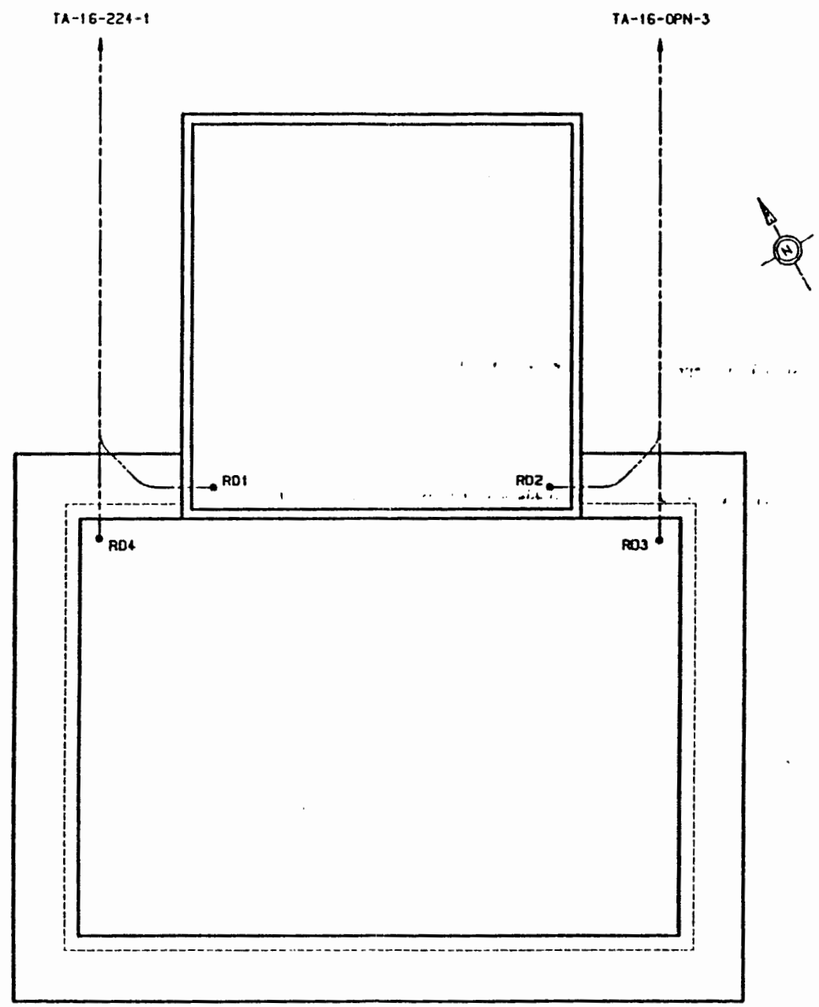
FLOOR PLAN
SCALE: 1/4" = 1'- 0"

LEGEND
1FD# ---- FLOOR DRAIN
STD# ---- PIT DRAIN
1SD# ---- SERVICE SINK

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 2 / ISSUE A	TITLE (U) TITLE CLASSIFICATION PLUMBING AND DRAIN PLAN TA-16-224	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192107
THIRD ANGLE PROJECTION	08-23-91 09:47	PSCN 88516 / SCALE / SHEET 2 OF -
STATUS	ORIGIN LA-ICEMPLUS-V2.03	

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART 99 CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
NA	A	JH	DRAWN BY - L. SANCHEZ 8-16-90 CHECKER - L. ABERCROMBLIE ENGINEER - D. PALMER APPROVED - PALMER



ROOF PLAN
SCALE: 1/4" = 1'- 0"

LEGEND
RD ---- ROOF DRAIN

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 3 / ISSUE A	TITLE (U) TITLE CLASSIFICATION ROOF DRAIN PLAN TA-16-224	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192107
THIRD ANGLE PROJECTION	90-23-01 09:54	FSCM 88516 / SCALE / SHEET 3 OF -
STATUS		ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	LS	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
TA-16-221-OPN-1	ROOF	RD1	RAIN WATER
TA-16-221-OPN-1	ROOF	RD4	RAIN WATER
TA-16-224-OPN-2	101	1FD1	HYDRAULIC STAND - OIL
TA-16-224-OPN-2	101	1FD2	H2O-W
TA-16-224-OPN-3	ROOF	RD2	RAIN WATER
TA-16-224-OPN-3	ROOF	RD3	RAIN WATER
TA-16-224-OPN-4	RM 103	1FD3	PC-1 - H2O-W, PC-2 - H2O-I, PWS-1 - OIL, H2O-I, WA-1 - H2O-I
TA-16-224-OPN-4	RM 103	1FD4	CA-1; OIL AND H2O-I, CA-2; OIL AND H2O-I, A-534; OIL, PV-1; H2O-I
TA-16-224-OPN-4	RM 103	1SD1	H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 104	T/S	SANITARY WASTE, H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 105	T/S	SANITARY WASTE, H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-5	STM PIT	STD1	H2O-I, H2O-T AND CONDENSATE

PART CODE: LOS ALAMOS NATIONAL LABORATORY

SHEET 4 | ISSUE A

TITLE: (UNC) TITLE CLASSIFICATION

DRAIN SCHEDULE
TA-16-224

PART CLASSIFICATION: UNCLASSIFIED

ENGLISH (FT/IN)

DRAWING CLASSIFICATION: UNCLASSIFIED

SIZE: C

DRAWING NUMBER: 13Y-192107

THIRD ANGLE PROJECTION

09-23-91 10:01 | FSCM 80516 | SCALE NONE | SHEET 4 OF -

STATUS | ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

TA-16-225

INDEX SHEET

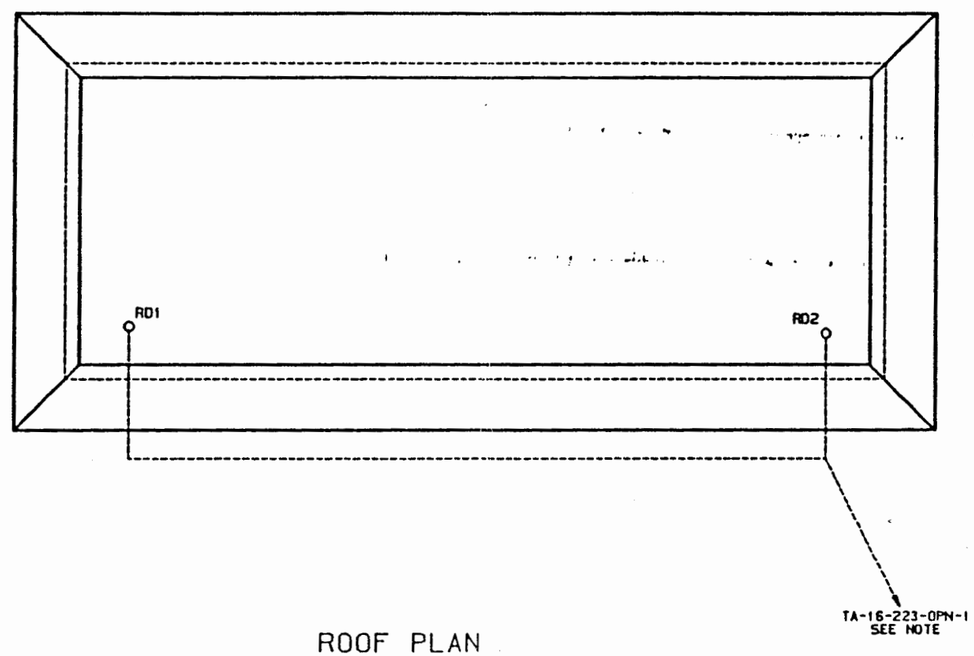
13Y-192108 SHT 1----SITE DRAINAGE PLAN
13Y-192108 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192108 SHT 3----ROOF PLAN
13Y-192108 SHT 4----POTENTIAL EFFULENT
13Y-192108 SHT 5----ELECTRICAL HAZARD PLAN
13Y-192108 SHT 6----EVACUATION PLAN

PART CODE	LOS ALAMOS NATIONAL LABORATORY
SHEET 0 / ISSUE A	TITLE (U) TITLE CLASSIFICATION: INDEX SHEET TA-16-225
PART CLASSIFICATION	UNCLASSIFIED
ENGLISH (FT/IN)	DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE D	DRAWING NUMBER: 13Y-192108
THIRD ANGLE PROJECTION	08-23-01 10:09 / FSCM 88516 / SCALE 1/1 / SHEET 0 OF -
STATUS	ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



ROOF PLAN

SCALE: 1/4"=1'-0"

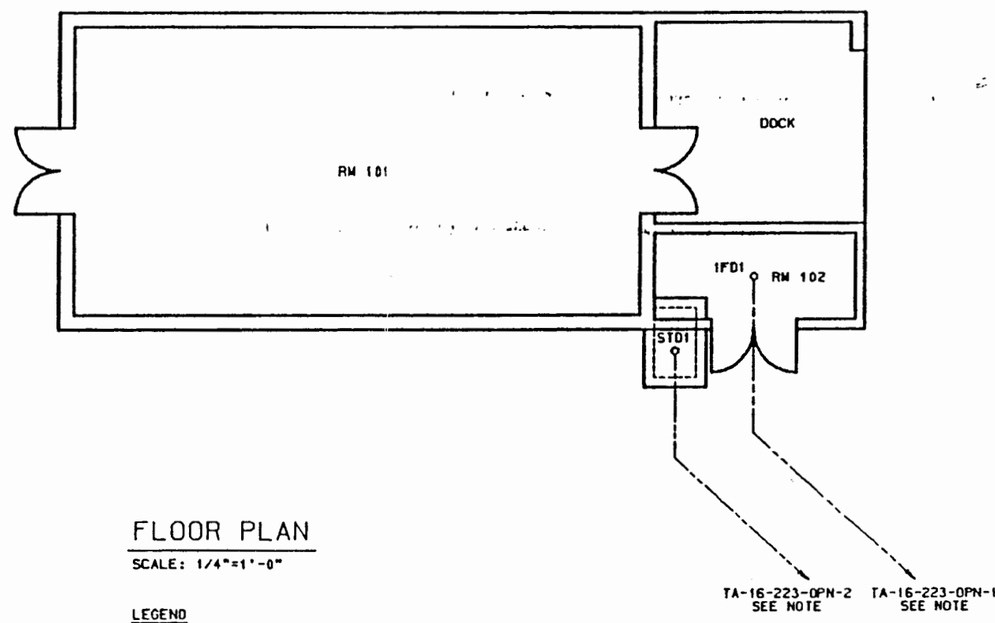
LEGEND

RD# - ROOF DRAIN

ENGLISH (FT/IN)	PART CODE: LOS ALAMOS NATIONAL LABORATORY	TITLE (U) TITLE CLASSIFICATION: ROOF DRAIN PLAN TA-16-225
	SHEET 3 / ISSUE A	
	PART CLASSIFICATION: UNCLASSIFIED	
	DRAWING CLASSIFICATION: UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192108
THIRD ANGLE PROJECTION	02-23-01 10:20	FSCM 88516 / SCALE / SHEET 3 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



FLOOR PLAN

SCALE: 1/4"=1'-0"

LEGEND

1FD1 - FLOOR DRAIN
STD1 - STEAM PIT DRAIN

NOTE: NEITHER THE FLOOR DRAIN, RAIN DRAIN OR THE STEAM PIT DRAIN COULD BE VERIFIED. THE OUTFALL LOCATION COULD NOT BE IDENTIFIED SINCE THERE IS NOT ANY INDUSTRIAL WATER AT THE REST HOUSE.

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 2 / ISSUE A	TITLE (U) TITLE CLASSIFICATION PLUMBING AND DRAIN PLAN TA-16-225	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192108
THIRD ANGLE PROJECTION	08-23-91 10:10	PSCM 88516 / SCALE / SHEET 2 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	ISS	CLASS REVIEW	REVISIONS DESCRIPTION
N/A	A	LS	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

OUTFALLS COULD NOT BE VERIFIED.
OUTFALLS WERE NOT VISUALLY LOCATED.
DRAINS COULD NOT BE TESTED SINCE THERE WAS NOT ANY WATER AVAILABLE.

BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
16-225-OPN-1	ROOF	RD1	RAIN WATER
16-225-OPN-1	ROOF	RD2	RAIN WATER
16-225-OPN-1	102	1FD1	???
16-225-OPN-2	101	STD1	CA-1, WATER, OIL; PC-1, WATER, OIL; TC-1, WATER, OIL, HV-1, WATER

PART CODE	LOS ALAMOS NATIONAL LABORATORY	
SHEET 4 / ISSUE A	TITLE (UNC) TITLE CLASSIFICATION DRAIN SCHEDULE TA-16-225	
PART CLASSIFICATION UNCLASSIFIED		
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE C / DRAWING NUMBER 13Y-192108
THIRD ANGLE PROJECTION	09-23-91 10:23	FSCM 88516 / SCALE 1/1 / SHEET 4 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	J.H.	DRAWN BY - VISEL 8-1-91 CHECKER - PALMER ENGINEER - PALMER APPROVED -

TA-16-226
INDEX SHEET

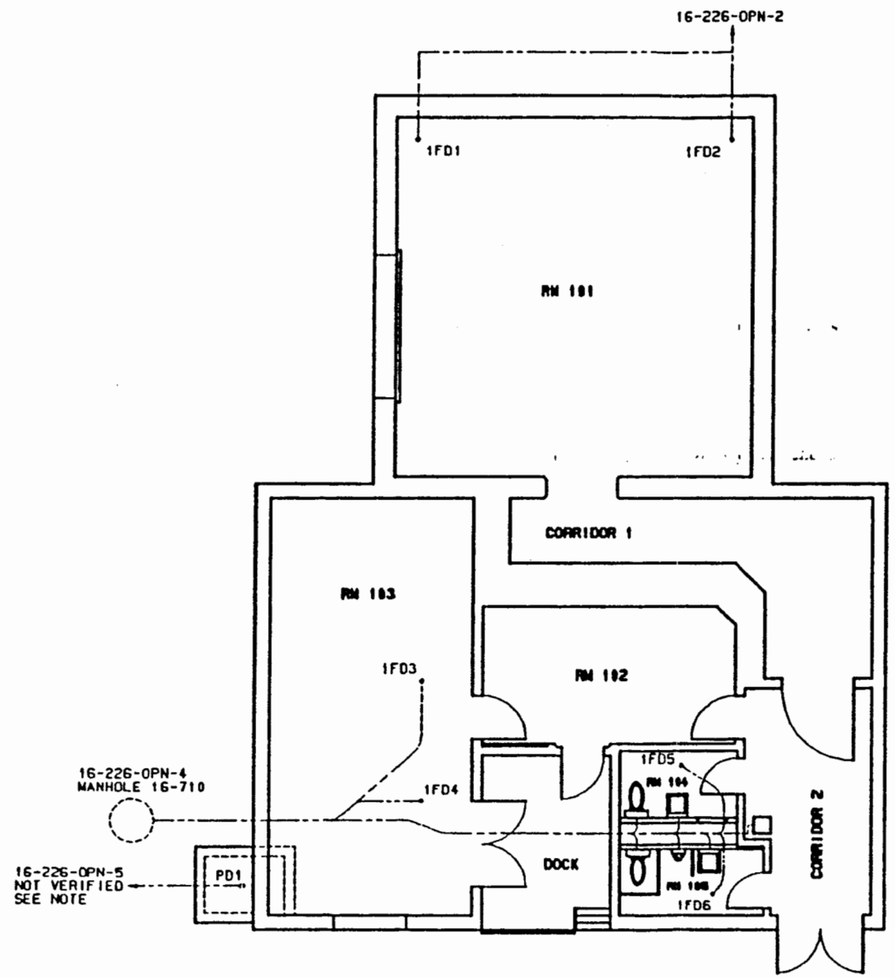
13Y-192109 SHT 1----SITE DRAINAGE PLAN
13Y-192109 SHT 2----FIRST FLOOR PLUMBING DRAIN PLAN
13Y-192109 SHT 3----ROOF DRAIN PLAN
13Y-192109 SHT 4----POTENTIAL EFFLUENTS
13Y-192109 SHT 5----ELECTRICAL HAZARD PLAN
13Y-192109 SHT 6----EVACUATION PLAN 1
13Y-192109 SHT 7----EVACUATION PLAN 2
13Y-192109 SHT 8----EVACUATION PLAN 3

ENGLISH (FT/IN)
THIRD ANGLE PROJECTION

PART CODE: LOS ALAMOS NATIONAL LABORATORY
SHEET 0
ISSUE A
PART CLASSIFICATION: UNCLASSIFIED
TITLE: (U) TITLE CLASSIFICATION
INDEX SHEET
TA-16-226
DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE D
DRAWING NUMBER: 13Y-192109
90-23-01 10:40
FSCM 88516 SCALE 1/1 SHEET 0 OF -
STATUS
ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS			
	ISS	CLASS REVIEW	DESCRIPTION	
N/A	A	JH	DRAWN BY - VISEL CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER	8-1-91



FIRST FLOOR PLAN

SCALE: 1/4" = 1'

LEGEND

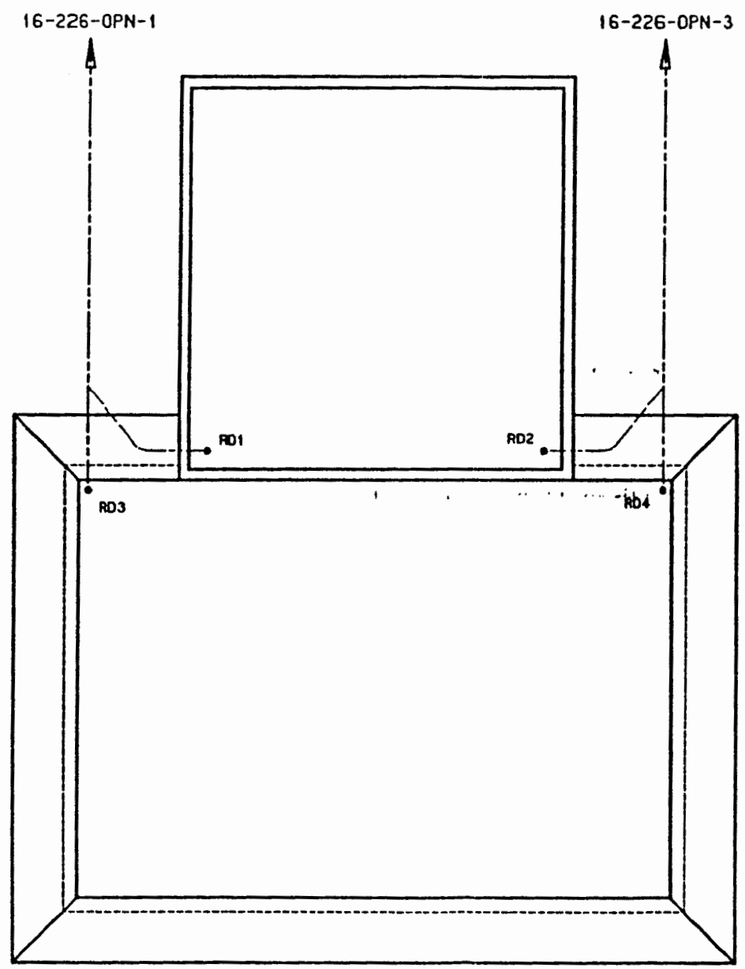
1FD#---------FIRST FLOOR DRAIN

PART CODE		
SHEET 2	TITLE (U) TITLE CLASSIFICATION	PLUMBING AND DRAIN PLAN TA-16-226
ISSUE A	PART CLASSIFICATION UNCLASSIFIED	
ENGLISH (FT/IN)	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y192109
THIRD ANGLE PROJECTION	08-23-01 10:44	FSCM 88516 / SCALE / SHEET 2 OF -
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

UNCLASSIFIED

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

PART OR CONTROL NUMBER	REVISIONS		
	ISS	CLASS REVIEW	DESCRIPTION
N/A	A	JH	DRAWN BY - VISEL 7-31-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER



ROOF DRAIN PLAN

SCALE: 1/4" = 1"

—LEGEND—

RD#----------ROOF DRAIN

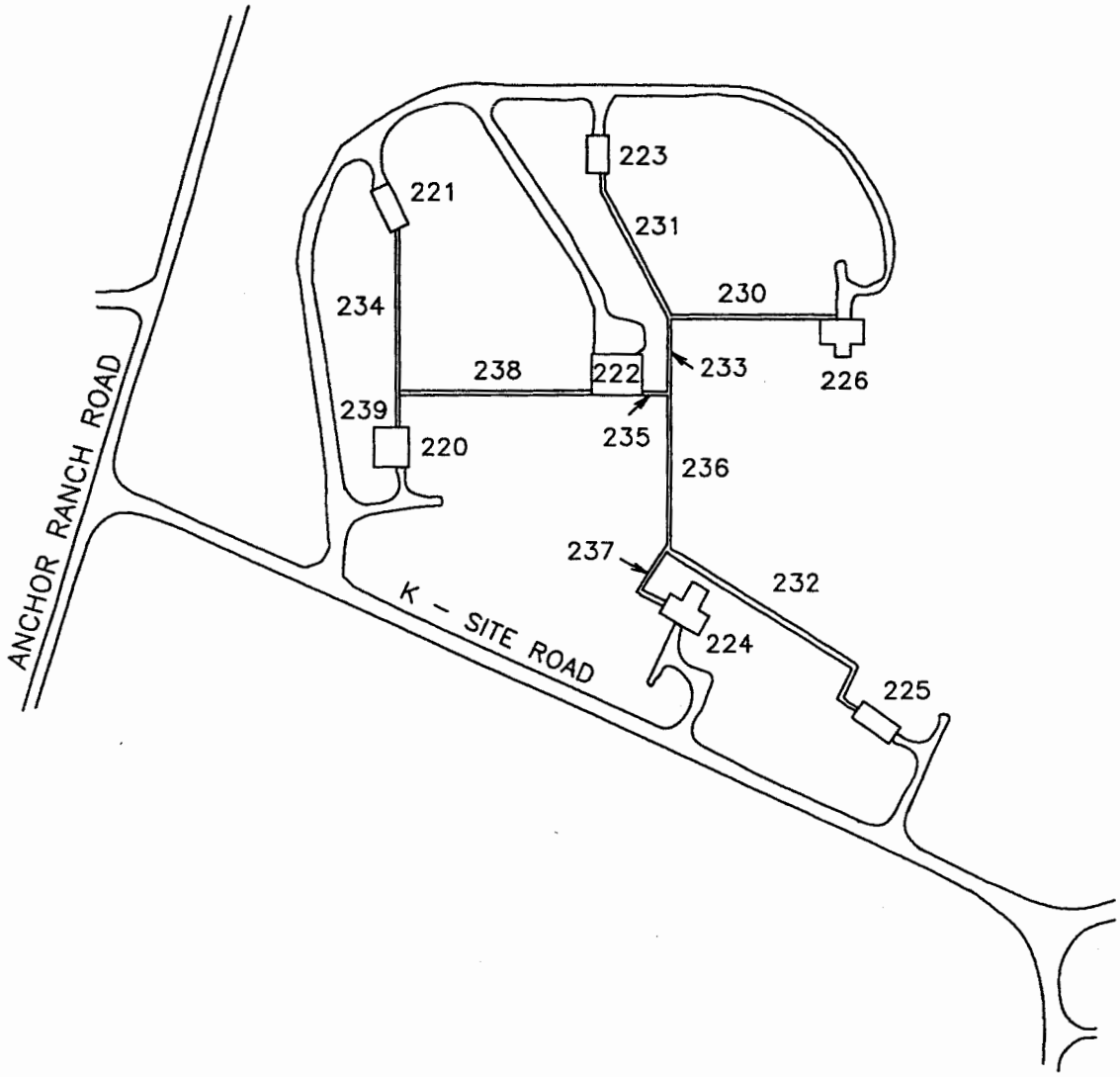
ENGLISH (FT/IN)	PART CODE	
	SHEET 3	TITLE (U) TITLE CLASSIFICATION
	ISSUE A	ROOF DRAIN PLAN TA-16-226
	PART CLASSIFICATION UNCLASSIFIED	
	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER 13Y-192109
THIRD ANGLE PROJECTION	09-23-91 10:40	FSCM 88516 / SCALE / SHEET 3 OF
	STATUS	ORIGIN LA-ICEMPLUS-V2.03

4 UNCLASSIFIED | 3 UNCLASSIFIED | 2 UNCLASSIFIED | 1 UNCLASSIFIED

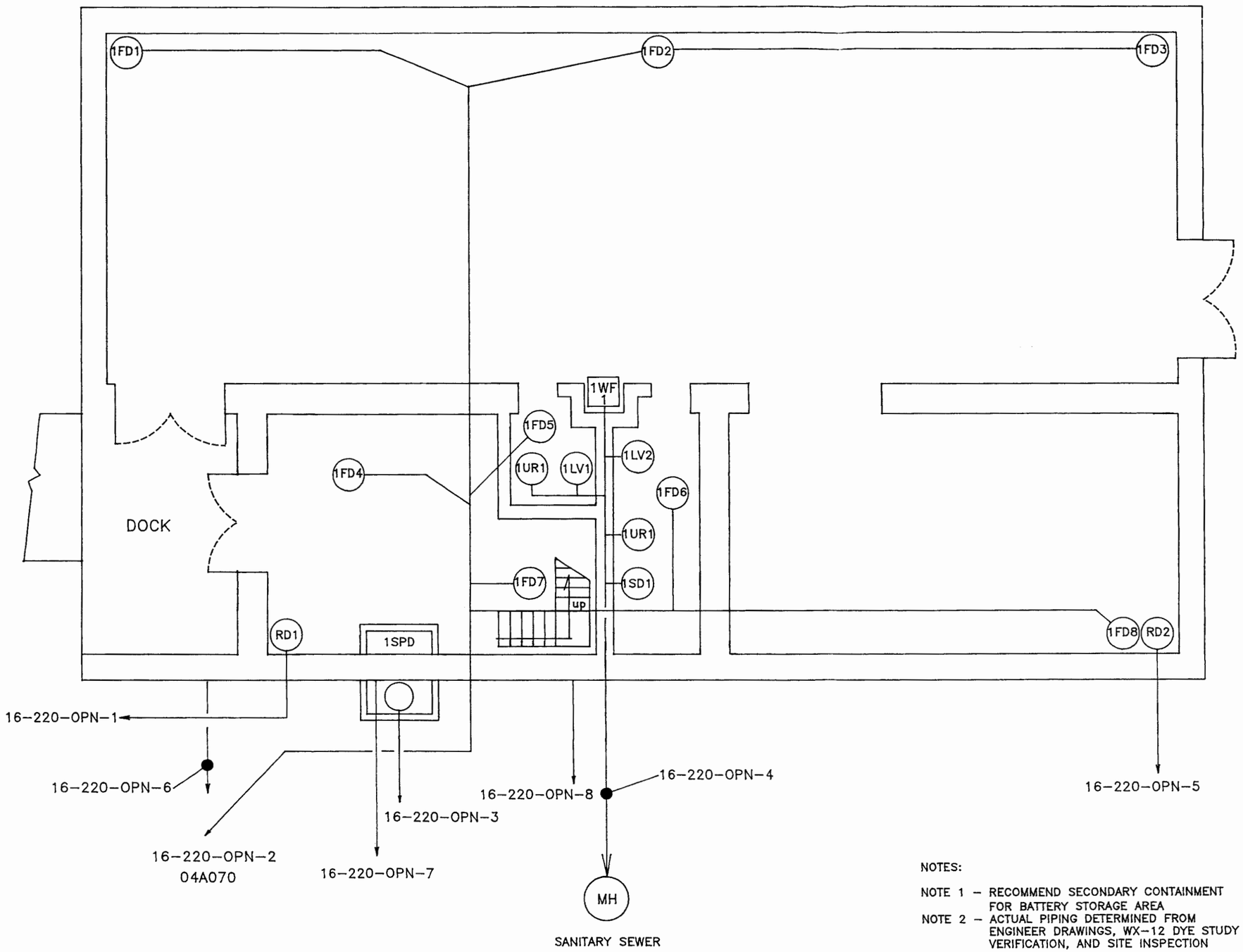
PART OR CONTROL NUMBER	ISS	CLASS REVIEW	REVISIONS DESCRIPTION
N/A	A	LS	DRAWN BY - VISEL 8-1-91 CHECKER - PALMER ENGINEER - PALMER APPROVED - PALMER

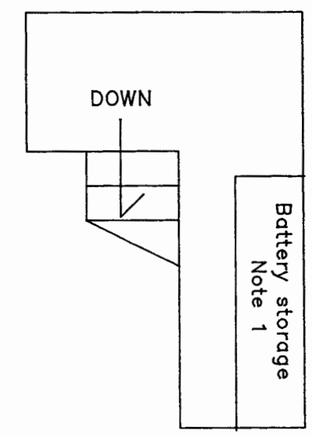
BLDG OUTFALL NO	BLDG ROOM NO	DRAIN NO	POTENTIAL EFFLUENT
TA-16-221-OPN-1	ROOF	RD1	RAIN WATER
TA-16-221-OPN-1	ROOF	RD4	RAIN WATER
TA-16-224-OPN-2	101	1FD1	H2O-W, DETERGENTS AND HE
TA-16-224-OPN-2	101	1FD2	H2O-W, DETERGENTS AND HE
TA-16-224-OPN-3	ROOF	RD2	RAIN WATER
TA-16-224-OPN-3	ROOF	RD3	RAIN WATER
TA-16-224-OPN-4	RM 103	1FD3	TCA-2 -- H2O-I, OIL; CA-1 -- H2O-I, OIL; PV-1 -- H2O-I, OIL; HV-1 -- H2O-I; PWS-1 H2O-I, OIL; TCS-1 -- H2O-I, OIL; H2O-W
TA-16-224-OPN-4	RM 103	1FD4	PV-1 -- H2O-I, OIL; A-513 -- H2O-I, OIL; H2O-W
TA-16-224-OPN-4	RM 103	1SD1	H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 104	T/S	SANITARY WASTE, H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 104	1FD6	H2O-I, H2O-W, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 105	T/S	SANITARY WASTE, H2O-I, DETERGENTS AND CLEANERS
TA-16-224-OPN-4	RM 105	1FD5	H2O-I, H2O-W, DETERGENTS AND CLEANERS
TA-16-224-OPN-5	STM PIT	STD1	H2O-I, H2O-T AND CONDENSATE

PART CODE
SHEET 4
ISSUE A
PART CLASSIFICATION UNCLASSIFIED
TITLE (UNC) TITLE CLASSIFICATION
DRAIN SCHEDULE
TA-16-226
ENGLISH (FT/IN)
DRAWING CLASSIFICATION UNCLASSIFIED
SIZE C
DRAWING NUMBER 13Y-192109
THIRD ANGLE PROJECTION
09-23-91 10:53
FSCM 88516 SCALE NONE SHEET 4 OF -
STATUS
ORIGIN LA-ICEMPLUS-V2.03



SANTA FE ENGINEERING, LTD.		
TA 16–220 BUILDING COMPLEX	DRAWN	SJV
	DESIGN	SJV
	CHECKED	PEB
	DATE	4/15/92
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP	LAB JOB NO. 11056–7	DRAWING NO. FIGURE 1 / REV.





N

LEGEND

FD – FLOOR DRAIN
LV – LAVATORY
MH – MANHOLE
RD – ROOF DRAIN
SD – SINK DRAIN
SPD – STEAM PIT DRAIN
UR – URINAL
WF – WATERFOUNTAIN

NOTES:

NOTE 1 – RECOMMEND SECONDARY CONTAINMENT FOR BATTERY STORAGE AREA
NOTE 2 – ACTUAL PIPING DETERMINED FROM ENGINEER DRAWINGS, WX-12 DYE STUDY VERIFICATION, AND SITE INSPECTION

SANTA FE ENGINEERING, LTD.

TA 16-220
BUILDING DRAIN SCHEMATIC

DRAWN	SJV
DESIGN	SJV
CHECKED	PEB
DATE	4/15/92

SUBMITTED | RECOMMENDED | APPROVED

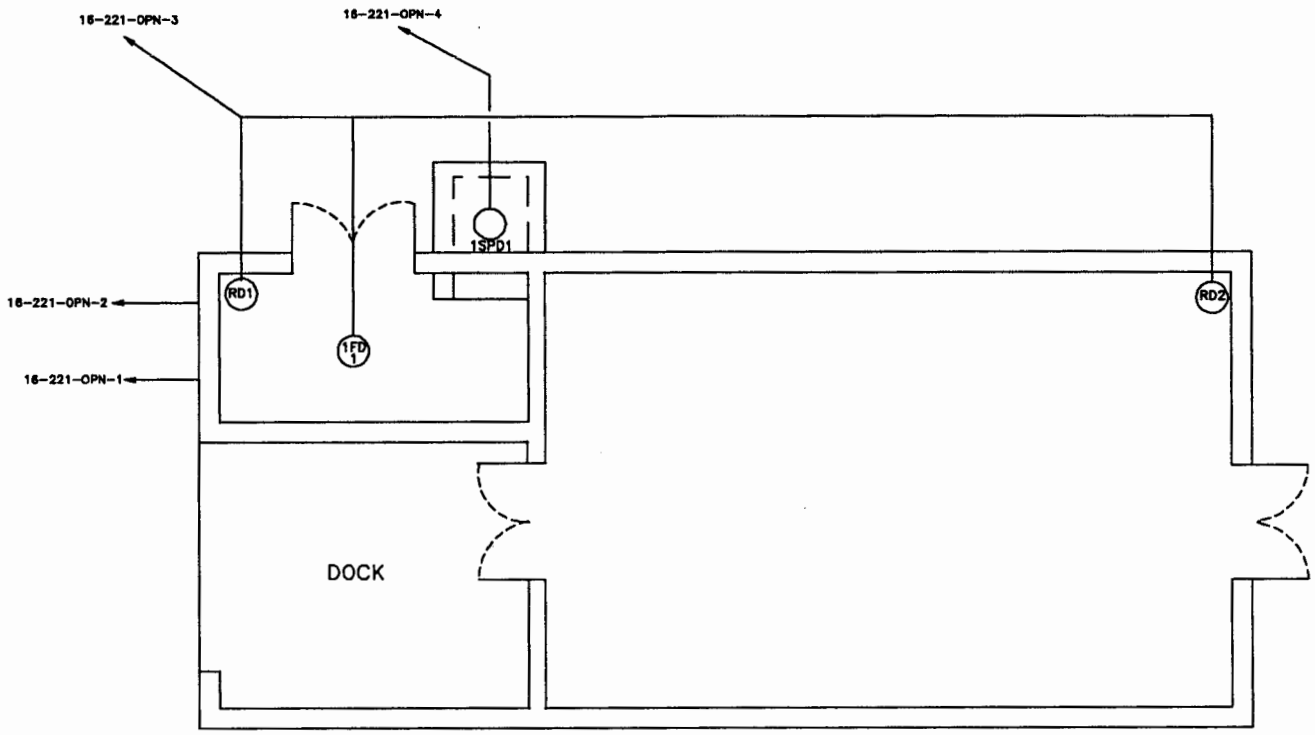
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET / OF

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP | 11056-7 | FIGURE 2

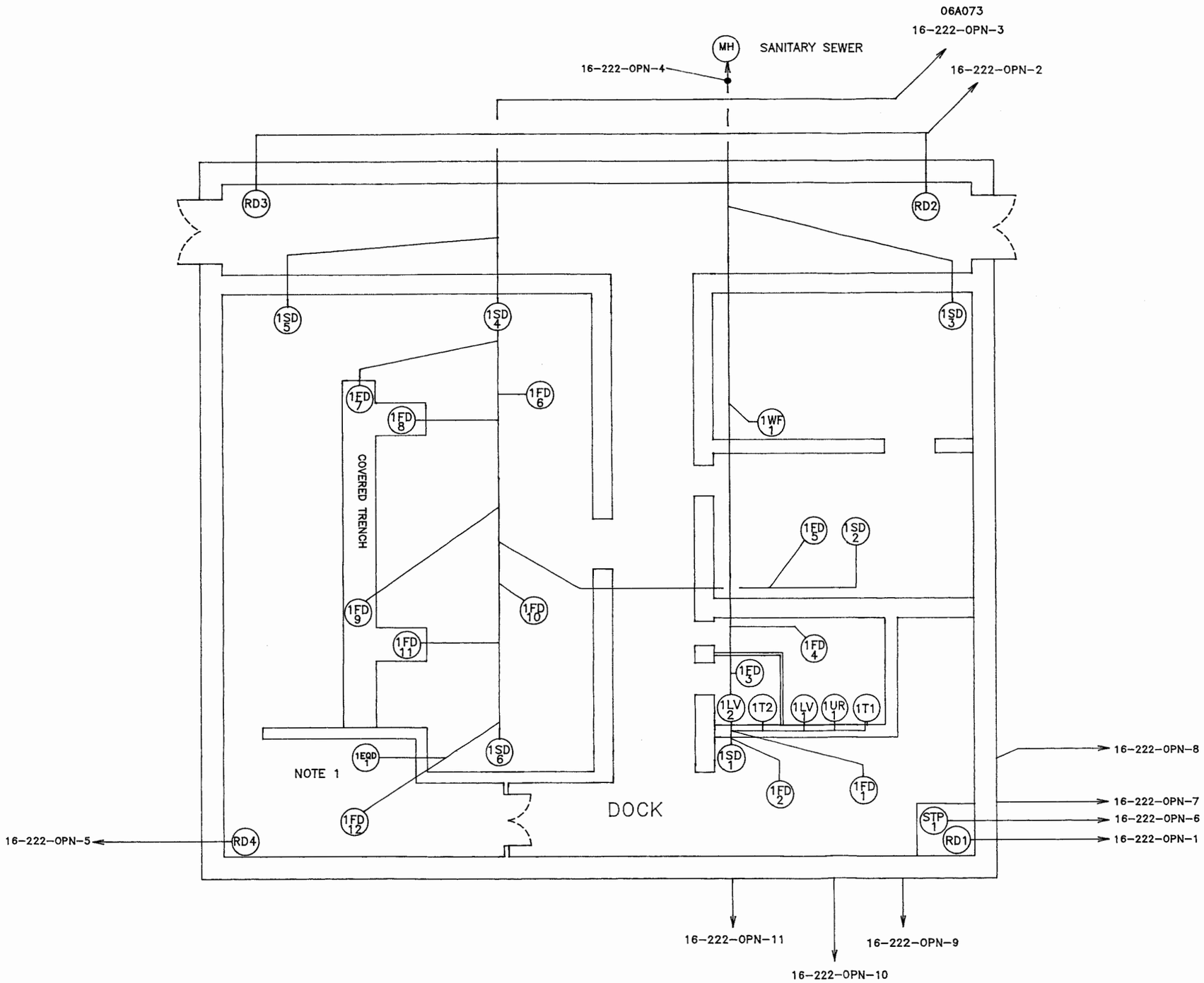


N

LEGEND

FD – FLOOR DRAIN
RD – ROOF DRAIN
SPD – STEAM PIT DRAIN

SANTA FE ENGINEERING, LTD.		
TA 16-221 BUILDING DRAIN SCHEMATIC	DRAWN	SJV
	DESIGN	SJV
	CHECKED	PEB
	DATE	4/16/92
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP	LAB JOB NO. 11056-7	DRAWING NO. FIGURE 3 / REV.



N

LEGEND

FD – FLOOR DRAIN
LV – LAVATORY
MH – MANHOLE
RD – ROOF DRAIN
SD – SINK DRAIN
SPD – STEAM PIT DRAIN
UR – URINAL
WF – WATER FOUNTAIN

NOTES:

NOTE 1 – RECOMMEND MOVING CHEMICAL DRUMS FROM THIS AREA
NOTE 2 – ACTUAL PIPING DETERMINED FROM ENGINEER DRAWINGS, WX-12 DYE STUDY VERIFICATION, AND SITE INSPECTION

SANTA FE ENGINEERING, LTD.

TA 16-222
BUILDING DRAIN SCHEMATIC

DRAWN	SJV
DESIGN	SJV
CHECKED	PEB
DATE	4/16/92

SUBMITTED | RECOMMENDED | APPROVED

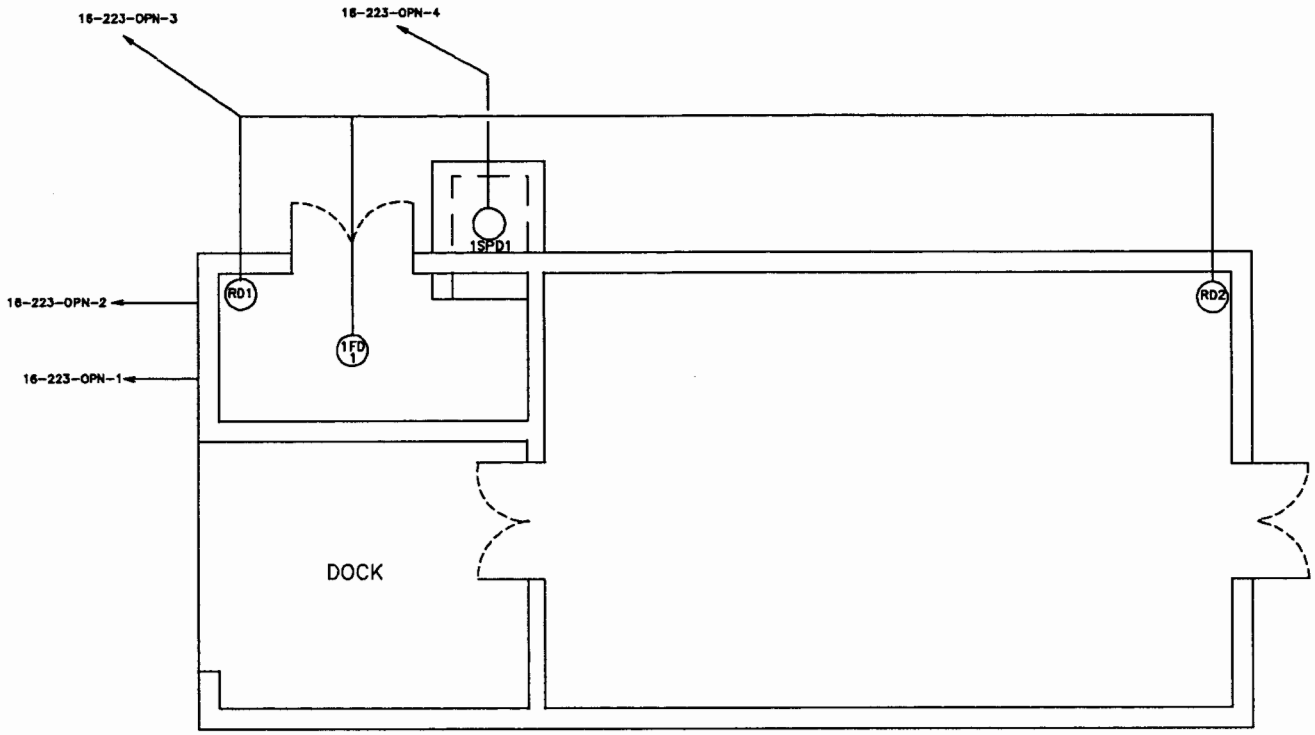
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET OF

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP | 11056-7 | FIGURE 4

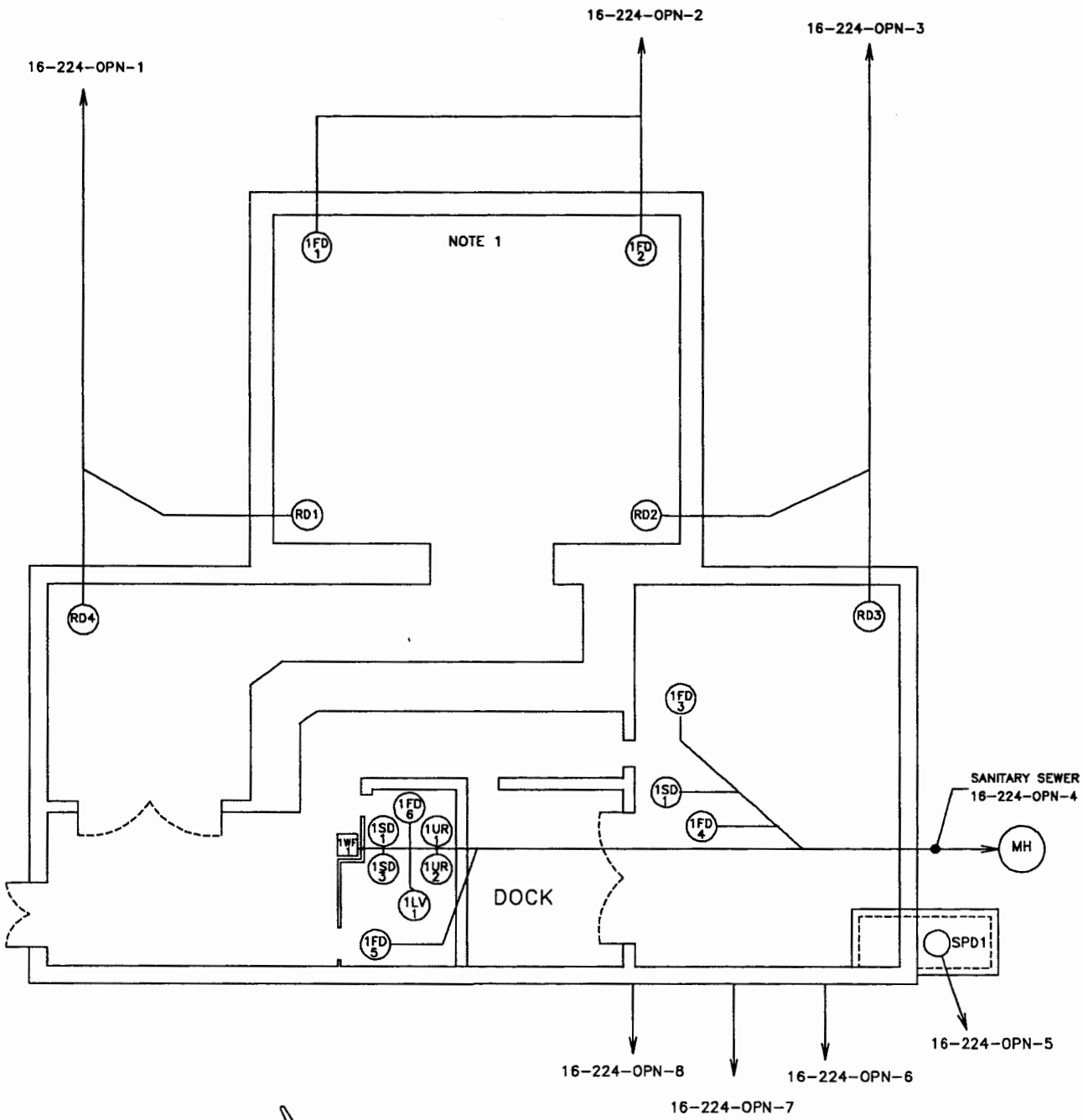


N

LEGEND

FD – FLOOR DRAIN
RD – ROOF DRAIN
SPD – STEAM PIT DRAIN

SANTA FE ENGINEERING, LTD.		
TA 16-223 BUILDING DRAIN SCHEMATIC	DRAWN	SJV
	DESIGN	SJV
	CHECKED	PEB
	DATE	4/16/92
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP	LAB JOB NO. 11056-7	DRAWING NO. FIGURE 5 / REV.



LEGEND

FD – FLOOR DRAIN
LV – LAVATORY
MH – MANHOLE
RD – ROOF DRAIN
SD – SINK DRAIN
SPD – STEAM PIT DRAIN
UR – URINAL
WF – WATERFOUNTAIN

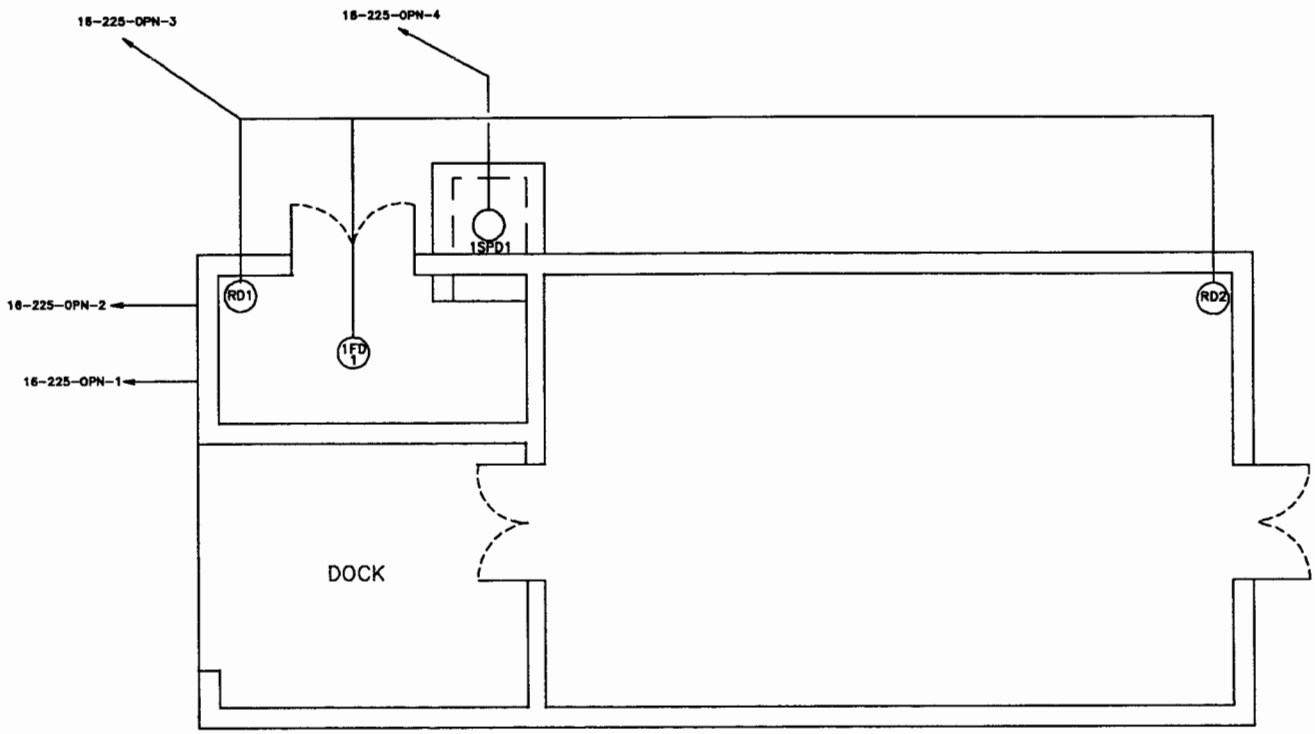
N

NOTES:

NOTE 1 – RECOMMEND PLUGGING FD1 AND FD2 TO AVOID 05A PERMITTING

NOTE 2 – ACTUAL PIPING DETERMINED FROM ENGINEER DRAWINGS, WX-12 DYE STUDY VERIFICATION, AND SITE INSPECTION

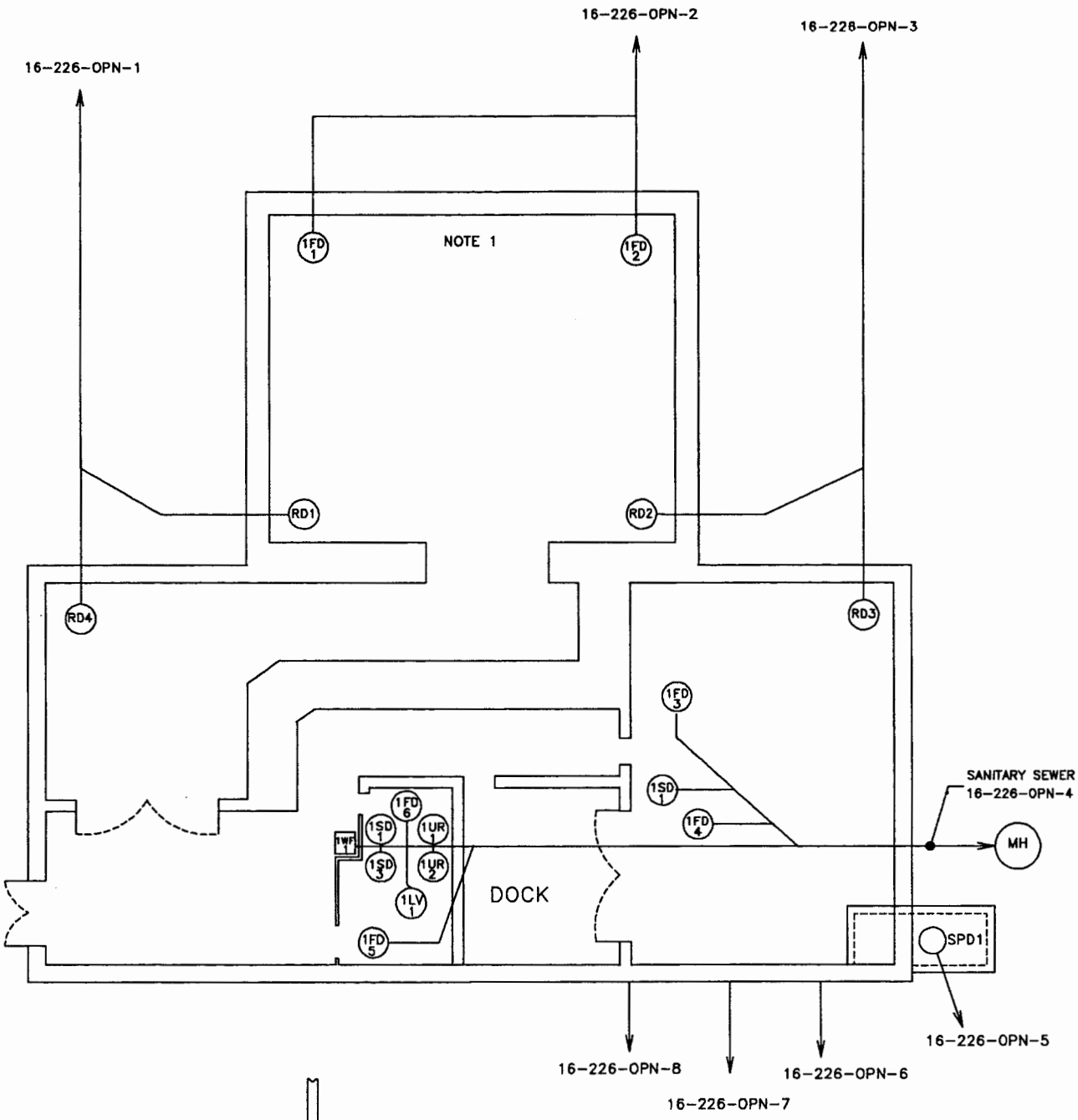
SANTA FE ENGINEERING, LTD.		
TA 16-224 BUILDING DRAIN SCHEMATIC	DRAWN	SJV
	DESIGN	SJV
	CHECKED	PEB
	DATE	4/16/91
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP	LAB JOB NO. 11056-7	DRAWING NO. FIGURE 6 / REV.



LEGEND

FD – FLOOR DRAIN
RD – ROOF DRAIN
SPD – STEAM PIT DRAIN

SANTA FE ENGINEERING, LTD.		
TA 16-225 BUILDING DRAIN SCHEMATIC	DRAWN	SJV
	DESIGN	SJV
	CHECKED	PEB
	DATE	4/16/92
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP	LAB JOB NO. 11056-7	DRAWING NO. FIGURE 7 / REV.



LEGEND

FD – FLOOR DRAIN
LV – LAVATORY
MH – MANHOLE
RD – ROOF DRAIN
SD – SINK DRAIN
SPD – STEAM PIT DRAIN
UR – URINAL
WF – WATERFOUNTAIN

N

NOTES:

NOTE 1 – RECOMMEND PLUGGING FD1 AND FD2 TO AVOID 05A PERMITTING

NOTE 2 – ACTUAL PIPING DETERMINED FROM ENGINEER DRAWINGS, WX-12 DYE STUDY VERIFICATION, AND SITE INSPECTION

SANTA FE ENGINEERING, LTD.

TA 16-226 BUILDING
DRAIN SCHEMATIC

DRAWN	SJV
DESIGN	SJV
CHECKED	PEB
DATE	4/16/91

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET / OF

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP | 11056-7 | FIGURE 8