WASTEWATER STREAM CHARACTERIZATION FOR TA 3-66, 127 & 451

at

Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT # 53

15289

GEMENT DIVISION

Los Alamos

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

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WASTEWATER STREAM CHARACTERIZATION FOR TA 3-66, 127 & 451

ENVIRONMENTAL STUDY

prepared for:
THE LOS ALAMOS NATIONAL LABORATORY
Los Alamos, New Mexico

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EXECUTIVE SUMMARY

Buildings 66 and 451 in TA-3 were visited to document all drain piping and to make permitting recommendations. The 3-127 cooling tower was included in this report since the blow down point is from inside building 3-66. The number of pipes found exiting the buildings are as follows:

1) from 3-66: Fifty eight miscellaneous outfall pipes for discharge of liquid waste and gas venting, nine storm water discharges, three discharges to the sanitary waste sewer, which flows to the TA-3 sanitary waste collection system, one discharge to the radioactive liquid waste collection line to the radioactive liquid waste treatment facility at TA-50 and one EPA permitted outfall, 03A022, for cooling tower blowdown; and

2) from 3-127: there are no direct outfalls from this structure (cooling tower). Cooling tower blowdown originates in building 3-66 as noted above; and

3) from 3-451: one discharge from a sanitary sink to the sanitary waste sewer, which flows to the TA-3 sanitary waste treatment plant.

An EPA application Form 2C is attached for outfall 03A022, the 3-127 cooling tower blow down.

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. Drain plugging or repiping is recommended where the potential for radioactive contamination of the sanitary wastewater exists.

As of August 1992, all sanitary waste is collected by the TA-3 sanitary sewer collection system and piped to the new Sanitary Wastewater System Consolidation (SWSC) plant at TA-46.

After the site visit, and during the preparation of this report, ENG-3 conducted an engineering study to investigate the feasibility of repiping basement and first floor sanitary piping to the radioactive liquid waste system (Figures 6 & 7 in Appendix 5). The decision was made not to revisit the site to determine if proposed piping modifications have been made, therefore the piping schemactics in this report are current to January, 1993. A follow-up investigation is recommended to verify whether or not piping modifications have been made, and to revise this report if the sanitary piping has been modified.

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

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1.0 INTRODUCTION

During November, 1992, Scott Carson and Stephen Diamond of Santa Fe Engineering (SFE) toured Buildings 66 and 451 in TA-3. The purpose of this study is to identify building drain piping, locate outfalls which discharge into the environment 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 of September 10, 1992 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 discharge were determined. Potential pollutants were also noted; and

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

No unpermitted discharges were observed. An EPA Form 2C was prepared for the blowdown from the 3-127 cooling tower (EPA 03A022).

The field investigation proceeded using Los Alamos National Laboratory (LANL) drawings, draft Engineering Group 3 piping drawings and drain schematic drawings prepared by SFE to aid in field investigation 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 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 LANL in September, 1990, the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number VI-92-1306 were used for reference;

2. SFE verified drain piping by visual inspection where possible and dye checking; and

3. A site visit was performed to verify both LANL 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 and interviews with site personnel to assist in waste stream characterization.

2.0 FIELD INVESTIGATION

The pipes exiting the building have been assigned an Outlet Piping Number. 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 pipe number and the unique number for the pipe. The piping exiting the building 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 function of each pipe exiting from buildings is listed in Appendix 1 in Tables 2 and 3 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. Appendix 3 contains a completed EPA Forms 2C for EPA outfall 03A-022 from the 3-127 cooling tower. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 5.

3.0 RECOMMENDATIONS FOR BUILDING 3-66

Table 2 is a summary of the building drains and Figures 2 through 5 are schematics of the building drain piping. Figure 6 is a schematic of the building outfalls, and Figures 7 and 8 are drawings of building drain piping following modification per the current ENG-3 proposal. Recommendations in this report, as outlined in Table 2, are presented as an alternative approach to segregating wastewater streams within the building. An EPA Form 2C has been prepared for outfall 3-66-OPN-10, and is included in Appendix 3.

3.1 Outfall 3-66-OPN-1

Outfall 3-66-OPN-1 is a radioactive liquid waste (RLW) outfall, collecting drainage from RLW drains in the building, as shown in Figures 2 and 3 and outlined in Table 2. The outfall connects to RLW manhole 779 west of the building, which is piped to the RLW treatment plant at TA-50. Repiping of the water fountain in Room P-102 (not controlled) from the RLW system to sanitary is recommended. No permitting is recommended for this outfall.

3.2 Outfall 3-66-OPN-2

Outfall 3-66-OPN-2 is a sanitary outfall, collecting drainage from floor drains (7), lavatories (6), sink drains (5), toilets (7), urinals (5), water fountains (2) and showers (5), as shown in Figures 2 and 3 and outlined in Table 2. The outfall connects to sanitary sewer manhole 670 east of the building. it is recommended that sinks 1SD1, 1SD32, 1SD33 and BSD2 be labeled "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL". No recommendations or permitting are recommended for this outfall and no EPA forms have been prepared.

3.3 Outfall 3-66-OPN-3

Outfall 3-66-OPN-3 is a sanitary outfall from two plugged floor drains in the basement elevator shaft, as shown in Figure 2 and outlined in Table 2. The outfall connects to the sanitary sewer, shown on Figure 2. No recommendations or permitting are recommended for this outfall and no EPA forms have been prepared.

3.4 Outfall 3-66-OPN-4

Outfall 3-66-OPN-4 is a sanitary outfall, collecting drainage from cup drains (10), equipment drains (2), eye washes (2), floor drains (119), lavatories (12), sinks (52), toilets (14), showers (4), urinals (7) and water fountains (13) throughout the building, as shown in Figures 2, 3 and 4 and outlined in Table 2. The outfall connects to sanitary manhole 671 which is piped to the sanitary sewer collection system. Many drains are located in controlled (rad) areas in the building, and recommendation is made to eliminate, plug or repipe these drains. The most urgent are drains 1SD34 (Room D-103), 1SD14 and 1FD48 (Room H-105B), and 1SD45, 1CD8, 1CD9, 1CD10 and 1CD11 (Room H-106) which are sanitary drains which accept radioactive contaminated liquid waste. Miscellaneous floor drains which are inactive or which may collect oil or other non-sanitary waste are recommended to be plugged or bermed. It is recommended that all sinks and cup drains not in restrooms be labeled "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL". Drains in the outside stairwells should be covered to prevent storm water intrusion into the sanitary sewer system. No permitting is recommended for this outfall and no EPA forms have been prepared.

3.5 Outfalls 3-66-OPN-5 and 3-66-OPN-7

These outfalls are storm water discharges from roof drains on the building. It is believed that they discharge to the canyon but

this could not be verified during the inspection. It is recommended that the operating group verify the destination of these outfalls. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.6 Outfalls 3-66-OPN-6, 3-66-OPN-9, 3-66-OPN-57, 3-66-OPN-58, 3-66-OPN-59 and 3-66-OPN-60

These outfalls are storm water discharges from roof drains to the canyon. No changes or permitting are recommended for these outfalls.

3.7 Outfall 3-66-OPN-8

This outfall originally discharged storm water from roof drains to the canyon. It is suspected that this outfall has been connected to the EPA permitted outfall 03A022 but could not be field verified due to snow conditions. It is recommended that the operating group verify this condition and, if it exists, separate the storm drainage from the permitted outfall. No permitting is recommended and no EPA forms were prepared.

3.8 Outfall 3-66-OPN-10

Outfall 3-66-OPN-10 is the EPA permitted blowdown (03A022) from cooling tower 3-127. The discharge is from the return line within Building 3-66, as shown in Figure 2, and is controlled by conductivity sensing in the cooling tower water. Recommendation is made to verify roof drain sources and separate from the outfall, as discussed in Section 3.7 above. A Form 2C has been prepared for this outfall and is included in Appendix 3.

3.9 Outfalls 3-66-OPN-11, 3-66-OPN-17, 3-66-OPN-18, 3-66-OPN-20, 3-66-OPN-22, 3-66-OPN-23, 3-66-OPN-24, 3-66-OPN-25, 3-66-OPN-27, 3-66-OPN-30, 3-66-OPN-36, 3-66-OPN-37, 3-66-OPN-42, 3-66-OPN-44, 3-66-OPN-45, 3-66-OPN-48, 3-66-OPN-54, 3-66-OPN-55, 3-66-OPN-62, 3-66-OPN-63 and 3-66-OPN-68

These outfalls are equipment vents and exhausts, and do not discharge liquid to the environment. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.10 Outfalls 3-66-OPN-12, 3-66-OPN-13, 3-66-OPN-26, 3-66-OPN-38, 3-66-OPN-39, 3-66-OPN-40, 3-66-OPN-41, 3-66-OPN-56, 3-66-OPN-64, 3-66-OPN-65 and 3-66-OPN-66

These outfalls are fire system auxiliary supply connections and test drains. No changes are recommended, however fire system test drains are recommended to be included in the Laboratory's Notice of Intent (NOI) to discharge.

3.11 Outfalls 3-66-OPN-14, 3-66-OPN-19, 3-66-OPN-28, 3-66-OPN-35, 3-66-OPN-46, 3-66-OPN-50, 3-66-OPN-51 and 3-66-OPN-53

These outfalls are disconnected inside the building and are recommended to be removed. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.12 Outfalls 3-66-OPN-15 and 3-66-OPN-16

These outfalls are drum secondary containment drains outside the building. They are recommended to be locked shut to prevent inadvertent discharge of contaminants within the containment. It is also recommended that the operating group review and implement the Laboratory's Spill Prevention Control & Countermeasure (SPCC) Plan, Revision 3. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.13 Outfalls 3-66-OPN-21 and 3-66-OPN-29

These outfalls are gas tank fill connections and do not discharge. No changes or permitting are recommended for these outfalls and no EPA forms have been prepared.

3.14 Outfalls 3-66-OPN-31, 3-66-OPN-32 and 3-66-OPN-47

Outfall 3-66-OPN-31 is an inactive steam cleaning connection outside the building with outfall 3-66-OPN-32, a water line, connected to it. Outfall 3-66-OPN-47 is a water system discharge line. It is recommended that outfalls 3-66-OPN-31 and 3-66-OPN-32 be removed. Outfall 3-66-OPN-47 should be included in a general Laboratory NOI. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.15 Outfalls 3-66-OPN-33 and 3-66-OPN-61

These outfalls could not be identified during site investigation. They should be identified by the operating group to determine what action should be taken, as discussed herein. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.16 Outfalls 3-66-OPN-34, 3-66-OPN-52 and 3-66-OPN-67

These outfalls are steam and air conditioner condensate drains and should be included in the Laboratory's NOI. No permitting is recommended for these outfalls and no EPA forms have been prepared.

3.17 Outfalls 3-66-OPN-43 and 66-OPN-49

These outfalls are an industrial water drain and a chilled water system drain, respectively, and should be included in the Laboratory's NOI. No permitting is recommended for these outfalls and no EPA forms have been prepared.

4.0 RECOMMENDATIONS FOR BUILDING 3-127

Building 3-127 is the cooling tower that serves building 3-66. There are no actual outfalls for this structure since the cooling tower blowdown (EPA Permit 03A022) originates from 3-66. See Section 3.8 of this report.

5.0 RECOMMENDATIONS FOR BUILDING 3-451

Table 3 is a summary of the building drains and Figure 9 is a schematic of the building drain piping. No changes are recommended for outfalls from this building.

5.1 Outfall 3-451-OPN-1

Outfall 3-451-OPN-1 drains one sink inside the building, and is connected to sanitary manhole 671 which is piped to the sanitary sewer collection system. It is recommended that sink 1SD1 be labeled for sanitary waste only. No permitting is recommended for this outfall and no EPA forms have been prepared.

5.2 Outfalls 3-451-OPN-2 and 3-451-OPN-3

These outfalls are old air conditioner connections and should be removed. No permitting is recommended for these outfalls and no EPA forms have been prepared.

5.3 Outfall 3-451-OPN-4

Outfall 3-451-OPN-4 is an air handler drain and should be included in the Laboratory's NOI. No permitting is recommended for this outfall and no EPA forms have been prepared.

5.4 Outfall 3-451-OPN-5

Outfall 3-451-OPN-5 is an air conditioner condensate drain and should be included in the Laboratory's NOI. No permitting is recommended for this outfall and no EPA forms have been prepared.

6.0 CONCLUSION

This document provides the information to characterize Buildings 66 and 451, and cooling tower 127. An NPDES permit application form has been prepared for the discharge from cooling tower 127, from the return line inside Building 3-66. The outfalls from these buildings are itemized below.

An EPA Form 2C is required for the following outfall:

1. 3-66-OPN-10

No NPDES permits are required for the following outfalls:

Discharge to the RLW collection system:

1. 3-66-OPN-1

Discharges to the sanitary sewer:

1. 3-66-OPN-2
2. 3-66-OPN-3
3. 3-66-OPN-4
4. 3-451-OPN-1

Storm water discharges:

1. 3-66-OPN-5
2. 3-66-OPN-6
3. 3-66-OPN-7
4. 3-66-OPN-8
5. 3-66-OPN-9
6. 3-66-OPN-57
7. 3-66-OPN-58
8. 3-66-OPN-59
9. 3-66-OPN-60

Gas vents:

1. 3-66-OPN-11
2. 3-66-OPN-17
3. 3-66-OPN-18
4. 3-66-OPN-20
5. 3-66-OPN-22
6. 3-66-OPN-23
7. 3-66-OPN-24
8. 3-66-OPN-25
9. 3-66-OPN-27
10. 3-66-OPN-30
11. 3-66-OPN-36
12. 3-66-OPN-37
13. 3-66-OPN-42
14. 3-66-OPN-44
15. 3-66-OPN-45
16. 3-66-OPN-48
17. 3-66-OPN-54
18. 3-66-OPN-55
19. 3-66-OPN-62
20. 3-66-OPN-63
21. 3-66-OPN-68

Disconnected pipes:

1. 3-66-OPN-14
2. 3-66-OPN-19
3. 3-66-OPN-28
4. 3-66-OPN-35
5. 3-66-OPN-46
6. 3-66-OPN-50
7. 3-66-OPN-51
8. 3-66-OPN-53
9. 3-451-OPN-2
10. 3-451-OPN-3

Fire system test discharges - requires a Laboratory NOI:

1. 3-66-OPN-13	4. 3-66-OPN-40	7. 3-66-OPN-65
2. 3-66-OPN-26	5. 3-66-OPN-41	8. 3-66-OPN-66
3. 3-66-OPN-38	6. 3-66-OPN-56	

Fire system supply connections:

1. 3-66-OPN-12	2. 3-66-OPN-39	3. 3-66-OPN-64

Gas fill connections:

1. 3-66-OPN-21	2. 3-66-OPN-29

Miscellaneous outfall pipes requiring a Laboratory NOI:

1. 3-66-OPN-34	4. 3-66-OPN-52	7. 3-451-OPN-5
2. 3-66-OPN-43	5. 3-66-OPN-67	
3. 3-66-OPN-49	6. 3-451-OPN-4	

Miscellaneous outfall pipes not requiring a Laboratory N.O.I.:

1. 3-66-OPN-15	4. 3-66-OPN-32	7 3-66-OPN-61
2. 3-66-OPN-16	5. 3-66-OPN-33	
3. 3-66-OPN-31	6. 3-66-OPN-47	

Recommendations in this report are made to achieve the following:

1) Maintain segregation of wastewater streams (RLW, storm water and sanitary);
2) Minimize wastewater to the RLW treatment system;
3) Prevent storm water intrusion into the sanitary sewer;
4) Reduce the number of unnecessary outfalls; and
5) Minimize the potential for oil and chemical contamination of sanitary wastewater.

The following actions, as indicated in Table 2, are recommended:

1) Repiping active RLW sinks from the sanitary sewer to the RLW sewer system (drains in Rooms H-105B and H-106, as shown in Table 2);
2) Eliminating, plugging[1] or repiping inactive RLW drains from the sanitary sewer to the RLW sewer system;
3) Repiping water fountains to the sanitary sewer (Room P-102);
4) Verification of storm water connection to 3-66-OPN-10 (EPA 03A-022), and repiping storm water to a separate outfall to the canyon, per LANL policy;
5) Verification of destination of storm water outfalls 3-66-OPN-5 and 3-66-OPN-7;
6) Removal of disconnected outfall pipes;
7) Plugging[1] floor drains in offices, and in shop areas which may discharge oil or oil laden wastewater. Berming around drains which must be maintained for equipment drainage is recommended (BFD50, Room D-1 and BFD27 & BFD28, Room P-1); and
8) Covering stairwells to prevent intrusion of storm water into the sanitary sewer. Divert roof drainage and remove storm water drainage hose from the sink drain in Room D-104;

An alternative approach to RLW and sanitary wastewater stream segregation (items 1 and 2 above) is proposed by Engineering Division, as shown in Figures 7 and 8. Rerouting drain piping in the basement floor would be costly and would drain sanitary wastewater to the RLW wastewater treatment plant. If rerouting basement piping is elected for wastewater stream segregation, consideration should be given to the recommendations in this report which are intended to minimize wastewater volume and contamination.

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(1) Note - All recommended plugging should be performed with permanent plugs (i.e. concrete, etc.) to prevent inadvertent future unwanted drainage. All existing plugged floor drains in rad areas should be permanently plugged as well.

TABLE 1:
SUMMARY OF ABBREVIATIONS

ABBREVIATION	MEANING
CD	CUP DRAIN
ED	EQUIPMENT DRAIN
EW	EYE WASH
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
SH	SHOWER DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-01 RLW	1CD01	PHYSICAL METALOGRAPHY LAB	H-107	NO CHANGE	NO
	1CD02	PHYSICAL METALOGRAPHY LAB	H-107	NO CHANGE	
	1CD03	PHYSICAL METALOGRAPHY LAB	H-107	NO CHANGE	
	1CD12	PHYSICAL METALOGRAPHY LAB	H-106	NO CHANGE	
	1CD13	PHYSICAL METALOGRAPHY LAB	H-106	NO CHANGE	
	1CD14	PHYSICAL METALOGRAPHY LAB	H-106	NO CHANGE	
	1CD15	PHYSICAL METALOGRAPHY LAB	H-106	NO CHANGE	
	1CD16	PHYSICAL METALOGRAPHY LAB	H-106	NO CHANGE	
	1ED03	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED04	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED05	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED06	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED07	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED08	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED09	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED10	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1ED11	PHYSICAL METALOGRAPHY LAB	H-102	NO CHANGE	
	1FD27	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD28	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD29	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD30	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD31	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD32	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD33	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD34	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD35	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD36	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD37	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD38	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD39	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1FD40	ELECTROPLATING SHOP	P-106	NO CHANGE	
	1FD41	ELECTROPLATING SHOP	P-106	NO CHANGE	
	1FD44	ELECTROPLATING LAB	P-103	NO CHANGE	
	1SD10	ELECTROPLATING LAB	P-103	NO CHANGE	
	1SD15	PHYSICAL METALOGRAPHY LAB	H-105B	NO CHANGE	
	1SD16	ELECTROPLATING LAB	P-104	NO CHANGE	
	1SD18	ELECTROPLATING LAB	P-103	NO CHANGE	
	1SD19	ELECTROPLATING LAB	P-103	NO CHANGE	
	1SD20	ELECTROPLATING LAB	P-103	NO CHANGE	
	1SD42	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1SD43	ELECTROPLATING SHOP	P-107	NO CHANGE	
	1SD44	ELECTROPLATING SHOP	P-107	NO CHANGE	
	1WF08	ELECTROPLATING OFFICE	P-102	PIPE TO S.S.	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-02 SANITARY	1FD12	MEN'S REST ROOM	D-109	NO CHANGE	NO
	1LV02	MEN'S REST ROOM	D-109	NO CHANGE	
	1LV03	MEN'S REST ROOM	D-109	NO CHANGE	
	1SD01	JANITOR'S CLOSET	D-110	LABEL	
	1SD32	MACHINE SHOP OFFICE	C-102	LABEL	
	1SD33	MACHINE SHOP OFFICE	C-101	LABEL	
	1TL01	MEN'S REST ROOM	D-109	NO CHANGE	
	1TL02	MEN'S REST ROOM	D-109	NO CHANGE	
	1UR01	MEN'S REST ROOM	D-109	NO CHANGE	
	1UR02	MEN'S REST ROOM	D-109	NO CHANGE	
	1WF02	MACHINE SHOP	C-100	NO CHANGE	
	BFD43	ELEVATOR	BY B-1	NO CHANGE	
	BFD54	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BFD55	MEN'S REST ROOM	C-2	NO CHANGE	
	BFD56	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BFD57	MEN'S REST ROOM	C-2	NO CHANGE	
	BFD62	MEN'S REST ROOM	C-2	NO CHANGE	
	BLV03	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BLV04	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BLV07	MEN'S REST ROOM	C-2	NO CHANGE	
	BLV08	MEN'S REST ROOM	C-2	NO CHANGE	
	BSD01	MEN'S REST ROOM	C-2	NO CHANGE	
	BSD02	JANITOR'S CLOSET	D-7	LABEL	
	BSH05	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BSH06	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BSH07	MEN'S REST ROOM	C-2	NO CHANGE	
	BSH08	MEN'S REST ROOM	C-2	NO CHANGE	
	BSH09	MEN'S REST ROOM	C-2	NO CHANGE	
	BTL09	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BTL10	WOMEN'S REST ROOM	C-2	NO CHANGE	
	BTL11	MEN'S REST ROOM	C-2	NO CHANGE	
	BTL12	MEN'S REST ROOM	C-2	NO CHANGE	
	BTL13	MEN'S REST ROOM	C-2	NO CHANGE	
	BUR05	MEN'S REST ROOM	C-2	NO CHANGE	
	BUR06	MEN'S REST ROOM	C-2	NO CHANGE	
	BUR07	MEN'S REST ROOM	C-2	NO CHANGE	
	BWF05	CORRIDOR	B-6	NO CHANGE	
3-66-OPN-03 SANITARY	BFD15	ELEVATOR	BY J-1	NO CHANGE	NO
	BFD47	ELEVATOR	BY D-5	LABEL	
3-66-OPN-04 SANITARY	1CD04	CERAMICS LAB	G-103	LABEL	NO
	1CD05	CERAMICS LAB	G-103	LABEL	
	1CD06	CERAMICS LAB	G-105	LABEL	
	1CD07	CERAMICS LAB	G-105	LABEL	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	1CD08	PHYSICAL METALOGRAPHY LAB	H-106	REPIPE TO RAD	NO
	1CD09	PHYSICAL METALOGRAPHY LAB	H-106	REPIPE TO RAD	
	1CD10	PHYSICAL METALOGRAPHY LAB	H-106	REPIPE TO RAD	
	1CD11	PHYSICAL METALOGRAPHY LAB	H-106	REPIPE TO RAD	
	1ED01	KILN ROOM	G-106	REMOVED	
	1ED02	CERAMICS LAB	G-106	LABEL	
	1EW01	ELECTROPLATING SHOP	P-100	NO CHANGE	
	1EW02	FOUNDRY	B-101	ELIM OR REPIPE TO RAD	
	1FD01	FOUNDRY	B-100	PLUGGED	
	1FD02	FOUNDRY	B-100	PLUGGED	
	1FD03	FOUNDRY	B-107	NO CHANGE	
	1FD04	FOUNDRY	B-101	PLUG OR REPIPE TO RAD	
	1FD05	STORAGE	C-106	PLUG	
	1FD06	STORAGE	C-106	PLUG	
	1FD07	MACHINE SHOP	C-104	PLUG	
	1FD08	FURNACE ROOM	D-103	PLUG	
	1FD09	FURNACE ROOM	D-103	PLUG	
	1FD10	INACTIVE	D-104	PLUG	
	1FD11	OFFICE	D-105	PLUG	
	1FD13	FOUNDRY CORRIDOR	B-101	PLUGGED	
	1FD14	KILN ROOM	G-106	PLUG	
	1FD15	KILN ROOM	G-106	PLUGGED	
	1FD16	CERAMICS LAB	G-105	PLUG	
	1FD17	CERAMICS LAB	G-105	PLUGGED	
	1FD18	CERAMICS LAB	G-103	PLUG	
	1FD19	CERAMICS LAB	G-104	PLUG	
	1FD20	RAD MACHINE SHOP	R-100	PLUG	
	1FD21	RAD MACHINE SHOP	R-100	PLUGGED	
	1FD22	MACHINE SHOP	R-108	PLUG	
	1FD23	MACHINE SHOP	R-108	PLUG	
	1FD24	RAD EQUIPMENT STORAGE	S-101	PLUG	
	1FD25	MACHINE SHOP	C-100	COVERED/PLUG	
	1FD26	MACHINE SHOP AREA	S-101	PLUG	
	1FD42	ELECTROPLATING SHOP	P-107	PLUG OR REPIPE TO RAD	
	1FD43	ELECTROPLATING LAB	P-103	PLUG OR REPIPE TO RAD	
	1FD45	PHYSICAL METALOGRAPHY LAB	H-107	PLUG	
	1FD46	PHYSCIAL METALOGRAPHY LAB	H-108	PLUG	
	1FD47	PHYSICAL METALOGRAPHY LAB	H-108	PLUG	
	1FD48	PHYSICAL METALOGRAPHY LAB	H-105B	PLUGGED	
	1FD49	CERAMICS LAB	G-103	BERM	
	1FD50	CERAMICS LAB	G-105	COVERED/PLUG	
	1FD51	LOUNGE	J-100	PLUG	
	1FD52	MACHINE SHOP	C-100	COVERED/PLUG	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	1FD53	LOUNGE	J-100	PLUG	NO
	1FD54	LOUNGE	J-100	PLUG	
	1FD55	LOUNGE	J-100	PLUG	
	1FD56	LOUNGE	J-100	PLUG	
	1FD57	LOUNGE	J-100	PLUG	
	1FD58	STORAGE	C-106	PLUG	
	1LV01	STORAGE	C-105	REMOVE	
	1LV04	WOMEN'S REST ROOM	J-110	NO CHANGE	
	1LV05	WOMEN'S REST ROOM	J-110	NO CHANGE	
	1LV06	LOUNGE	C-109	LABEL	
	1SD03	JANITOR'S CLOSET	R-109	LABEL	
	1SD04	RAD MACHINE SHOP	R-100	REMOVE/PIPE TO RLW	
	1SD05	RAD MACHINE SHOP	R-100	REMOVE/PIPE TO RLW	
	1SD06	LOUNGE	R-102	LABEL	
	1SD07	LASER LAB	S-104A	LABEL	
	1SD08	MECHANICAL TESTING LAB	K-104	LABEL	
	1SD09	MACHINE SHOP	R-108	LABEL	
	1SD11	JANITOR'S CLOSET	A-101	LABEL	
	1SD12	DARKROOM	H-103	LABEL/SOP	
	1SD13	PHYSICAL METALOGRAPHY LAB	H-107	REPIPE TO RLW	
	1SD14	PHYSICAL METALOGRAPHY LAB	H-105B	REPIPE TO RLW	
	1SD21	CERAMICS LAB	G-104	LABEL	
	1SD22	CERAMICS LAB	G-103	LABEL	
	1SD23	CERAMICS LAB	G-103	LABEL	
	1SD24	CERAMICS LAB	G-103	LABEL	
	1SD25	CERAMICS LAB	G-103	LABEL	
	1SD26	CERAMICS LAB	G-105	LABEL	
	1SD27	CERAMICS LAB	G-105	LABEL	
	1SD28	FOUNDRY	B-104	LABEL	
	1SD29	FOUNDRY	B-100	LABEL	
	1SD30	FOUNDRY	B-101	ELIM OR REPIPE TO RAD	
	1SD31	FOUNDRY	B-100	ELIM OR REPIPE TO RAD	
	1SD34	FURNACE ROOM	D-103	REPIPE TO RAD	
	1SD35	INACTIVE	D-104	ELIM STORM DRAIN	
	1SD36	MATERIAL PREP.	D-106	LABEL	
	1SD37	MATERIAL PREP. & FINISH	D-108	LABEL	
	1SD38	MATERIAL PREP. & FINISH	D-108	LABEL	
	1SD39	MATERIAL PREP.	D-106	LABEL	
	1SD40	LOUNGE	J-100	LABEL	
	1SD41	CERAMICS LAB	G-103	LABEL	
	1SD45	PHYSICAL METALOGRAPHY LAB	H-106	REPIPE TO RAD	
	1SD46	MACHINE SHOP	C-107	LABEL	
	1TL03	WOMEN'S REST ROOM	J-110	NO CHANGE	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	1TL04	WOMEN'S REST ROOM	J-110	NO CHANGE	NO
	1WF01	MACHINE SHOP	C-107	NO CHANGE	
	1WF03	FOUNDRY	B-104	NO CHANGE	
	1WF04	RAD MACHINE SHOP	R-100	REPLACE	
	1WF05	MACHINE SHOP	R-108	NO CHANGE	
	1WF06	RAD EQUIPMENT STORAGE AREA	S-101	REPLACE	
	1WF07	INACTIVE MECHANICAL LAB	K-105	NO CHANGE	
	1WF09	CERAMICS LAB	G-105	NO CHANGE	
	1WF10	CORRIDOR	A-100	NO CHANGE	
	1WF11	LOUNGE	J-100	NO CHANGE	
	2FD01	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD02	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD03	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD04	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD05	MEN'S REST ROOM	A-205	NO CHANGE	
	2FD06	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD07	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD08	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD09	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD10	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD11	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD12	EQUIPMENT ROOM	S-201	NO CHANGE	
	2FD13	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD14	EQUIPMENT ROOM	S-200	NO CHANGE	
	2FD15	WOMEN'S REST ROOM	A-200	NO CHANGE	
	2LV01	MEN'S REST ROOM	A-205	NO CHANGE	
	2LV02	MEN'S REST ROOM	A-205	NO CHANGE	
	2LV03	WOMEN'S REST ROOM	A-200	NO CHANGE	
	2LV04	WOMEN'S REST ROOM	A-200	NO CHANGE	
	2SD01	JANITOR'S CLOSET	A-203	LABEL	
	2TL01	MEN'S REST ROOM	A-205	NO CHANGE	
	2TL02	MEN'S REST ROOM	A-205	NO CHANGE	
	2TL03	WOMEN'S REST ROOM	A-200	NO CHANGE	
	2TL04	WOMEN'S REST ROOM	A-200	NO CHANGE	
	2UR01	MEN'S REST ROOM	A-205	NO CHANGE	
	2UR02	MEN'S REST ROOM	A-205	NO CHANGE	
	2UR03	MEN'S REST ROOM	A-205	NO CHANGE	
	BCD05	LAB	G-4	LABEL	
	BCD09	LAB	G-6	LABEL	
	BFD01	INACTIVE	J-1	PLUGGED	
	BFD02	INACTIVE	J-1	PLUGGED	
	BFD03	INACTIVE	J-1	PLUG	
	BFD04	EQUIPMENT ROOM	J-3	NO CHANGE	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	BFD05	EQUIPMENT ROOM	J-3	NO CHANGE	NO
	BFD06	MISC. STORAGE	J-2	PLUG	
	BFD07	MEN'S REST ROOM	J-4	NO CHANGE	
	BFD08	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BFD09	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BFD10	MEN'S REST ROOM	K-4	NO CHANGE	
	BFD11	EQUIPMENT ROOM	K-3	NO CHANGE	
	BFD12	EQUIPMENT ROOM	K-3	NO CHANGE	
	BFD13	HIGH SECURITY LAB	K-2	COVERED/PLUG	
	BFD14	EQUIPMENT ROOM	J-3	CONTAINERIZE DRUMS	
	BFD16	MACHINE SHOP	R-6	PLUGGED	
	BFD17	MACHINE SHOP	R-4	PLUGGED	
	BFD18	MACHINE SHOP	R-4	PLUGGED	
	BFD19	MEN'S REST ROOM	R-2	NO CHANGE	
	BFD20	MEN'S REST ROOM	R-2	NO CHANGE	
	BFD21	MEN'S REST ROOM	R-2	NO CHANGE	
	BFD22	CHEMICAL STORAGE	R-3	PLUGGED	
	BFD23	CHEMICAL STORAGE	R-3	PLUGGED	
	BFD24	EQUIPMENT ROOM	R-1	PLUGGED	
	BFD25	ELEVATOR	BY R-1	PLUGGED	
	BFD26	EQUIPMENT ROOM	R-1	PLUGGED	
	BFD27	EQUIPMENT ROOM	P-1	BERM AROUND DRAIN	
	BFD28	EQUIPMENT ROOM	P-1	BERM AROUND DRAIN	
	BFD29	EQUIPMENT ROOM	P-1A	NO CHANGE	
	BFD30	EQUIPMENT ROOM	P-1	PLUG	
	BFD31	ELEVATOR	BY P-1	PLUGGED	
	BFD32	EQUIPMENT ROOM	P-1	PLUG	
	BFD33	CORRIDOR	S-1	NO CHANGE	
	BFD34	EQUIPMENT ROOM	H-8	NO CHANGE	
	BFD35	GRIT BLASTING LAB	G-1	CONTAINERIZE	
	BFD36	LAB	G-6	PLUG	
	BFD37	EQUIPMENT ROOM	G-8	PLUG	
	BFD38	GRIT BLASTING LAB	G-7	PLUGGED	
	BFD39	LAB	G-4	PLUG	
	BFD40	EQUIPMENT/RAD STORAGE ROOM	B-3	PLUGGED	
	BFD41	STORAGE/EQUIPMENT ROOM	B-1	PLUGGED	
	BFD42	STORAGE/EQUIPMENT ROOM	B-1	PLUGGED	
	BFD44	EQUIPMENT ROOM	B-5	NO CHANGE	
	BFD45	EQUIPMENT ROOM	B-5	PLUG	
	BFD46	EQUIPMENT ROOM	B-5	PLUG	
	BFD48	EQUIPMENT ROOM	D-5	PLUGGED	
	BFD49	CRANE ROOM	D-4	PLUG	
	BFD50	EQUIPMENT ROOM	D-1	REPIPE OIL SEPARATOR	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	BFD51	STAIRWELL	BY C-1	COVER TO ELIM STORM	NO
	BFD52	STAIRWELL	BY B-5	COVER TO ELIM STORM	
	BFD53	EQUIPMENT ROOM	G-8	NO CHANGE	
	BFD58	LAB/EQUIPMENT ROOM	C-1	BERM	
	BFD59	LAB/EQUIPMENT ROOM	C-1	PLUGGED	
	BFD60	GENERATOR ROOM	B-2	PLUG	
	BFD61	EQUIPMENT ROOM	D-1	NO CHANGE	
	BFD63	EQUIPMENT ROOM	D-5	PLUGGED	
	BFD64	STAIRWELL	BY J-3	COVER TO ELIM STORM	
	BFD65	EQUIPMENT ROOM	J-3	PLUG	
	BFD66	EQUIPMENT ROOM	K-3	NO CHANGE	
	BFD67	STAIRWELL	BY K-3	COVER TO ELIM STORM	
	BFD68	STAIRWELL	BY P-1	COVER TO ELIM STORM	
	BFD69	CORRIDOR	S-1	NO CHANGE	
	BFD70	STAIRWELL	BY G-1	COVER TO ELIM STORM	
	BLV01	MEN'S REST ROOM	J-4	NO CHANGE	
	BLV02	MEN'S REST ROOM	K-4	NO CHANGE	
	BLV05	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BLV06	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BSD03	JANITOR'S CLOSET	K-5	LABEL	
	BSD04	SHOP/STORAGE ROOM	B-4	LABEL	
	BSD05	JANITOR'S CLOSET	R-12	LABEL	
	BSD06	MACHINE SHOP	R-4	LABEL	
	BSD07	MEN'S REST ROOM	R-2	NO CHANGE	
	BSD08	MEN'S REST ROOM	R-2	NO CHANGE	
	BSD09	CHEMICAL STORAGE	R-3	LABEL	
	BSD10	MEN'S REST ROOM	R-2	NO CHANGE	
	BSD11	MEN'S REST ROOM	R-2	NO CHANGE	
	BSD12	STORAGE/SHOP	R-9	LABEL	
	BSD13	LAB	G-5	LABEL	
	BSD14	JANITOR'S CLOSET	H-1	LABEL	
	BSD15	ELECTRICIAN'S SHOP	H-4	LABEL	
	BSD16	JANITOR'S SHOP	H-5	LABEL	
	BSD17	DARKROOM	H-6	LABEL/SOP	
	BSD18	LAB	G-4	LABEL	
	BSD19	LOUNGE	H-3	LABEL	
	BSD20	LAB	G-6	LABEL	
	BSD21	LAB	G-3	LABEL	
	BSH01	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BSH02	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BSH03	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BSH04	MEN'S REST ROOM	R-2	NO CHANGE	
	BTL01	MEN'S REST ROOM	J-4	NO CHANGE	

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-04 SANITARY (CONT.)	BTL02	WOMEN'S REST ROOM	K-1	NO CHANGE	NO
	BTL03	WOMEN'S REST ROOM	K-1	NO CHANGE	
	BTL04	MEN'S REST ROOM	K-4	NO CHANGE	
	BTL05	MEN'S REST ROOM	R-2	NO CHANGE	
	BTL06	MEN'S REST ROOM	R-2	NO CHANGE	
	BTL07	MEN'S REST ROOM	R-2	NO CHANGE	
	BTL08	MEN'S REST ROOM	R-2	NO CHANGE	
	BUR01	MEN'S REST ROOM	R-2	NO CHANGE	
	BUR02	MEN'S REST ROOM	R-2	NO CHANGE	
	BUR03	MEN'S REST ROOM	R-2	NO CHANGE	
	BUR04	MEN'S REST ROOM	R-2	NO CHANGE	
	BWF01	EQUIPMENT ROOM	K-3	NO CHANGE	
	BWF02	MACHINE SHOP	R-4	NO CHANGE	
	BWF03	CHEMICAL STORAGE	R-3	NO CHANGE	
	BWF04	CORRIDOR	S-2	NO CHANGE	
3-66-OPN-05 STORM	RD1	ROOF	N/A	VERIFY DESTINATION	NO
	RD2	ROOF	N/A		
	RD3	ROOF	N/A		
	RD4	ROOF	N/A		
	RD5	ROOF	N/A		
	RD6	ROOF	N/A		
	RD7	ROOF	N/A		
	RD8	ROOF	N/A		
	RD9	ROOF	N/A		
3-66-OPN-06 STORM	RD10	ROOF	N/A	NO CHANGE	NO
	RD11	ROOF	N/A	NO CHANGE	
	RD12	ROOF	N/A	NO CHANGE	
	RD13	ROOF	N/A	NO CHANGE	
	RD14	ROOF	N/A	NO CHANGE	
	RD15	ROOF	N/A	NO CHANGE	
	RD16	ROOF	N/A	NO CHANGE	
	RD17	ROOF	N/A	NO CHANGE	
3-66-OPN-07 STORM	RD18	ROOF	N/A	VERIFY DESTINATION	NO
	RD19	ROOF	N/A		
	RD20	ROOF	N/A		
	RD21	ROOF	N/A		
	RD22	ROOF	N/A		
	RD23	ROOF	N/A		
	RD24	ROOF	N/A		
	RD25	ROOF	N/A		

TABLE 2: TA 3-66 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-66-OPN-39	N/A	FIRE SUPPLY	K-3	NO CHANGE	NO
3-66-OPN-40	N/A	FIRE DRAIN	K-3	NOI	NO
3-66-OPN-41	N/A	FIRE DRAIN	J-3	NOI	NO
3-66-OPN-42	N/A	GAS VENT	D-1	NO CHANGE	NO
3-66-OPN-43	N/A	INDUSTRIAL WATER DRAIN	D-105	NOI	NO
3-66-OPN-44	N/A	GAS VENT	D-1	NO CHANGE	NO
3-66-OPN-45	N/A	GAS VENT (12")	D-1	NO CHANGE	NO
3-66-OPN-46	N/A	DISCONNECTED GAS MANIFOLD	D-103	ELIMINATE	NO
3-66-OPN-47	N/A	WATER DRAIN	D-5	NOI	NO
3-66-OPN-48	N/A	VENT	D-103	NO CHANGE	NO
3-66-OPN-49	N/A	CHILLED WATER SYSTEM DRAIN	D-103	NOI	NO
3-66-OPN-50	N/A	STUB	D-5	ELIMINATE	NO
3-66-OPN-51	N/A	STUB	D-5	ELIMINATE	NO
3-66-OPN-52	N/A	CONDENSATE DRAIN	C-106	NOI	NO
3-66-OPN-53	N/A	DISCONNECTED CONDENSATE	C-106	ELIMINATE	NO
3-66-OPN-54	N/A	STEAM VENT	N/A	NO CHANGE	NO
3-66-OPN-55	N/A	STEAM PRV	N/A	NO CHANGE	NO
3-66-OPN-56	N/A	FIRE DRAIN	C-106	NOI	NO
3-66-OPN-57	N/A	STORM WATER	N/A	NO CHANGE	NO
3-66-OPN-58	N/A	STORM WATER	N/A	NO CHANGE	NO
3-66-OPN-59	N/A	STORM WATER	N/A	NO CHANGE	NO
3-66-OPN-60	N/A	STORM WATER	N/A	NO CHANGE	NO
3-66-OPN-61	N/A	BREAK ROOM (UNKNOWN)	C-109	VERIFY SOURCE	NO
3-66-OPN-62	N/A	FURNACE VENT	B-100	NO CHANGE	NO
3-66-OPN-63	N/A	DUST EXHAUST	B-107	NO CHANGE	NO
3-66-OPN-64	N/A	FIRE SUPPLY	B-5	NO CHANGE	NO
3-66-OPN-65	N/A	FIRE DRAIN	B-5	NOI	NO
3-66-OPN-66	N/A	FIRE DRAIN	B-5	NOI	NO
3-66-OPN-67	N/A	A/C CONDENSATE	B-105	NOI	NO
3-66-OPN-68	N/A	GAS PRV	G-1	NO CHANGE	NO
NOT CONNECTED	1SD02	MATERIAL PREP. & FINISH	D-108	CONTAINERIZE DRAIN	NO
	1SD17	ELECTROPLATING LAB	P-103	ELIM VENT CONNECT	
	BCD01	HIGH SECURITY LAB	K-2	NO CHANGE	
	BCD02	LAB	G-2	NO CHANGE	
	BCD03	LAB	G-2	NO CHANGE	
	BCD04	LAB	G-3	ELIM OR CONTAINERIZE	
	BCD06	LAB	G-5	ELIM OR CONTAINERIZE	
	BCD07	LAB	G-5	ELIM OR CONTAINERIZE	
	BCD08	LAB	G-5	ELIM OR CONTAINERIZE	

TABLE 3: TA 3-451 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM
3-451-OPN-1 SANITARY	1SD1	LOUNGE	N/A	LABEL	NO
3-451-OPN-2	N/A	STUB	N/A	ELIMINATE	NO
3-451-OPN-3	N/A	STUB	N/A	ELIMINATE	NO
3-451-OPN-4	N/A	AIR HANDLER CONDENSATE	N/A	NOI	NO
3-451-OPN-5	N/A	AIR COND.CONDENSATE	N/A	NOI	NO

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-01	RLW	1CD01	H-107	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1CD02	H-107	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1CD03	H-107	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1CD12	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	BERYLLIUM POLISHING WASTE
3	66	3-66-OPN-01	RLW	1CD13	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	BERYLLIUM POLISHING WASTE
3	66	3-66-OPN-01	RLW	1CD14	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1CD15	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1CD16	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1ED03	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED04	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED05	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED06	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED07	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED08	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED09	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED10	P-100	ELECTROPLATING SHOP			NO FLOW	No	RINSE TANKS - LINE PLUGGED
3	66	3-66-OPN-01	RLW	1ED11	H-102	PHYSICAL METALOGRAPHY			NO FLOW	No	NONE - CAPPED
3	66	3-66-OPN-01	RLW	1FD27	P-100	ELECTROPLATING SHOP			NO FLOW	No	TROUGH DRAIN - DRAIN PLUGGED
3	66	3-66-OPN-01	RLW	1FD28	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD29	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD30	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD31	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD32	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD33	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD34	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD35	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD36	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD37	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD38	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD39	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD40	P-106	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD41	P-106	ELECTROPLATING SHOP			FLOW IS NIL	No	PLATING BATH SPILLAGE
3	66	3-66-OPN-01	RLW	1FD44	P-103	ELECTROPLATING LAB			NO FLOW	No	NONE - COVERED

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-01	RLW	1SD10	P-103	ELECTROPLATING LAB			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD15	H-105B	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD RINSE WATER
3	66	3-66-OPN-01	RLW	1SD16	P-104	ELECTROPLATING LAB			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD18	P-103	ELECTROPLATING LAB			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD19	P-103	ELECTROPLATING LAB			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD20	P-103	ELECTROPLATING LAB			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD42	P-100	ELECTROPLATING SHOP			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD43	P-107	ELECTROPLATING SHOP			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1SD44	P-107	ELECTROPLATING SHOP			5 DAYS PER WEEK	No	RINSE WATER
3	66	3-66-OPN-01	RLW	1WF08	P-102	ELECTROPLATING OFFICE			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-02	01S/SWSC	1FD12	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	1LV02	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	1LV03	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	1SD01	D-110	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-02	01S/SWSC	1SD32	C-102	MACHINE SHOP OFFICE			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-02	01S/SWSC	1SD33	C-101	MACHINE SHOP OFFICE			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-02	01S/SWSC	1TL01	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	1TL02	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	1UR01	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-02	01S/SWSC	1UR02	D-109	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-02	01S/SWSC	1WF02	C-100	MACHINE SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-02	01S/SWSC	BFD43	BY B-1	ELEVATOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-02	01S/SWSC	BFD54	C-2	WOMEN'S REST ROOM			FLOW IS NIL	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	BFD55	C-2	MEN'S REST ROOM			FLOW IS NIL	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	BFD56	C-2	WOMEN'S REST ROOM			FLOW IS NIL	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	BFD57	C-2	MEN'S REST ROOM			FLOW IS NIL	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	BFD62	C-2	MEN'S REST ROOM			FLOW IS NIL	No	FLOOR WASHINGS
3	66	3-66-OPN-02	01S/SWSC	BLV03	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	BLV04	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	BLV07	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	BLV08	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-02	01S/SWSC	BSD01	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-02	01S/SWSC	BSD02	D-7	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-02	01S/SWSC	BSH05	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-02	01S/SWSC	BSH06	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-02	01S/SWSC	BSH07	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-02	01S/SWSC	BSH08	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-02	01S/SWSC	BSH09	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-02	01S/SWSC	BTL09	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	BTL10	C-2	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	BTL11	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	BTL12	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	BTL13	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-02	01S/SWSC	BUR05	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-02	01S/SWSC	BUR06	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-02	01S/SWSC	BUR07	C-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-02	01S/SWSC	BWF05	B-6	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-03	01S/SWSC	BFD15	BY J-1	ELEVATOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-03	01S/SWSC	BFD47	BY D-5	ELEVATOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1CD04	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD05	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD06	G-105	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD07	G-105	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD08	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD09	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD10	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1CD11	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1ED01	G-106	KILN ROOM			NO FLOW	No	NONE - NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1ED02	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	HOOD AIR WASH
3	66	3-66-OPN-04	01S/SWSC	1EW01	P-100	ELECTROPLATING SHOP			FLOW IS NIL	No	EYE RINSE WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1EW02	B-101	FOUNDRY			FLOW IS NIL	No	EYE WASH RINSE WATER (RAD)
3	66	3-66-OPN-04	01S/SWSC	1FD01	B-100	FOUNDRY			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD02	B-100	FOUNDRY			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD03	B-107	FOUNDRY			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD04	B-101	FOUNDRY			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD05	C-106	STORAGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	1FD06	C-106	STORAGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD07	C-104	MACHINE SHOP			FLOW IS NIL	No	NO SOURCES - OIL POTENTIAL
3	66	3-66-OPN-04	01S/SWSC	1FD08	D-103	FURNACE ROOM			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD09	D-103	FURNACE ROOM			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD10	D-104	INACTIVE			5 DAYS PER WEEK	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD11	D-105	OFFICE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD13	B-101	FOUNDRY CORRIDOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD14	G-106	KILN ROOM			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD15	G-106	KILN ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD16	G-105	CERAMICS LAB			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD17	G-105	CERAMICS LAB			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD18	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD19	G-104	CERAMICS LAB			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD20	R-100	RAD MACHINE SHOP			FLOW IS NIL	No	RAD & OIL FROM MACHINE SHOP
3	66	3-66-OPN-04	01S/SWSC	1FD21	R-100	RAD MACHINE SHOP			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD22	R-108	MACHINE SHOP			FLOW IS NIL	No	MACHINE OIL (COVERED W/EQUIP)
3	66	3-66-OPN-04	01S/SWSC	1FD23	R-108	MACHINE SHOP			FLOW IS NIL	No	MACHINE OIL LEAKAGE
3	66	3-66-OPN-04	01S/SWSC	1FD24	S-101	RAD EQUIPMENT STORAGE			FLOW IS NIL	No	RAD - NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD25	C-100	MACHINE SHOP			NO FLOW	No	NONE - COVERED
3	66	3-66-OPN-04	01S/SWSC	1FD26	S-101	MACHINE SHOP AREA			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD42	P-107	ELECTROPLATING SHOP			FLOW IS NIL	No	NO SOURCE NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD43	P-103	ELECTROPLATING LAB			FLOW IS NIL	No	NO SOURCE NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD45	H-107	PHYSICAL METALOGRAPHY			FLOW IS NIL	No	DRAIN COVERED - NO SOURCES
3	66	3-66-OPN-04	01S/SWSC	1FD46	H-108	PHYSCIAL METALOGRAPHY			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD47	H-108	PHYSICAL METALOGRAPHY			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD48	H-105B	PHYSICAL METALOGRAPHY			FLOW IS NIL	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	1FD49	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	ICE MACHINE DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD50	G-105	CERAMICS LAB			NO FLOW	No	NONE - COVERED WITH PLATE
3	66	3-66-OPN-04	01S/SWSC	1FD51	J-100	LOUNGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD52	C-100	MACHINE SHOP			NO FLOW	No	NONE - COVERED
3	66	3-66-OPN-04	01S/SWSC	1FD53	J-100	LOUNGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD54	J-100	LOUNGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD55	J-100	LOUNGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	1FD56	J-100	LOUNGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1FD57	J-100	LOUNGE			FLOW IS NIL	No	FORK LIFT OIL
3	66	3-66-OPN-04	01S/SWSC	1FD58	C-106	STORAGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	1LV01	C-105	STORAGE			FLOW IS NIL	No	INACTIVE
3	66	3-66-OPN-04	01S/SWSC	1LV04	J-110	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	1LV05	J-110	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	1LV06	C-109	LOUNGE			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	1SD03	R-109	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	1SD04	R-100	RAD MACHINE SHOP			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD05	R-100	RAD MACHINE SHOP			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD06	R-102	LOUNGE			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1SD07	S-104A	LASER LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD08	K-104	MECHANICAL TESTING LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD09	R-108	MACHINE SHOP			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	1SD11	A-101	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	1SD12	H-103	DARKROOM			5 DAYS PER WEEK	No	PHOTO RINSE WATER
3	66	3-66-OPN-04	01S/SWSC	1SD13	H-107	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD14	H-105B	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD INDUSTRIAL WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD21	G-104	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD22	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD23	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD24	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD25	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD26	G-105	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD27	G-105	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD28	B-104	FOUNDRY			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1SD29	B-100	FOUNDRY			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1SD30	B-101	FOUNDRY			5 DAYS PER WEEK	No	RINSE WATER (RAD AREA)
3	66	3-66-OPN-04	01S/SWSC	1SD31	B-100	FOUNDRY			5 DAYS PER WEEK	No	RINSE WATER (RAD AREA)
3	66	3-66-OPN-04	01S/SWSC	1SD34	D-103	FURNACE ROOM			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD35	D-104	INACTIVE			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1SD36	D-106	MATERIAL PREP.			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD37	D-108	MATERIAL PREP. & FINISH			5 DAYS PER WEEK	No	LABORATORY WASTEWATER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	1SD38	D-108	MATERIAL PREP. & FINISH			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD39	D-106	MATERIAL PREP.			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD40	J-100	LOUNGE			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1SD41	G-103	CERAMICS LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD45	H-106	PHYSICAL METALOGRAPHY			5 DAYS PER WEEK	No	RAD WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	1SD46	C-107	MACHINE SHOP			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	1TL03	J-110	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	1TL04	J-110	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	1WF01	C-107	MACHINE SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF03	B-104	FOUNDRY			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF04	R-100	RAD MACHINE SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF05	R-108	MACHINE SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF06	S-101	RAD EQUIPMENT STORAGE			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF07	K-105	MECHANICAL LAB			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF09	G-105	CERAMICS LAB			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF10	A-100	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	1WF11	J-100	LOUNGE			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	2FD01	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AAIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD02	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD03	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD04	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD05	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	2FD06	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD07	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD08	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD09	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD10	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD11	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD12	S-201	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD13	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD14	S-200	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	2FD15	A-200	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	2LV01	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	2LV02	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	2LV03	A-200	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	2LV04	A-200	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	2SD01	A-203	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	2TL01	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	2TL02	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	2TL03	A-200	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	2TL04	A-200	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	2UR01	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	2UR02	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	2UR03	A-205	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	BCD05	G-4	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BCD09	G-6	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BFD01	J-1	INACTIVE			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD02	J-1	INACTIVE			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD03	J-1	INACTIVE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD04	J-3	EQUIPMENT ROOM			FLOW IS NIL	Yes	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	BFD05	J-3	EQUIPMENT ROOM			FLOW IS NIL	No	BACK FLOW PREVENTER
3	66	3-66-OPN-04	01S/SWSC	BFD06	J-2	MISC. STORAGE			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD07	J-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD08	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD09	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD10	K-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD11	K-3	EQUIPMENT ROOM			5 DAYS PER WEEK	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD12	K-3	EQUIPMENT ROOM			5 DAYS PER WEEK	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD13	K-2	HIGH SECURITY LAB			NO FLOW	No	NONE - COVERED
3	66	3-66-OPN-04	01S/SWSC	BFD14	J-3	EQUIPMENT ROOM			FLOW IS NIL	No	ACID DRUM LEAKAGE
3	66	3-66-OPN-04	01S/SWSC	BFD14	J-3	EQUIPMENT ROOM			5 DAYS PER WEEK	No	COOLING TOWER DRAINS
3	66	3-66-OPN-04	01S/SWSC	BFD16	R-6	MACHINE SHOP			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD17	R-4	MACHINE SHOP			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD18	R-4	MACHINE SHOP			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD19	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD20	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	BFD21	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
3	66	3-66-OPN-04	01S/SWSC	BFD22	R-3	CHEMICAL STORAGE			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD23	R-3	CHEMICAL STORAGE			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD24	R-1	EQUIPMENT ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD25	BY R-1	ELEVATOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD26	R-1	EQUIPMENT ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD27	P-1	EQUIPMENT ROOM			FLOW IS NIL	No	DEIONIZED WATER DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD28	P-1	EQUIPMENT ROOM			FLOW IS NIL	No	BFPs & STEAM PRVs
3	66	3-66-OPN-04	01S/SWSC	BFD28	P-1	EQUIPMENT ROOM			FLOW IS NIL	No	FIRE SYSTEM DRAIN & CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	BFD29	P-1A	EQUIPMENT ROOM			FLOW IS NIL	No	NO SOURCE NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD30	P-1	EQUIPMENT ROOM			FLOW IS NIL	No	NO SOURCE NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD31	BY P-1	ELEVATOR			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD32	P-1	EQUIPMENT ROOM			FLOW IS NIL	No	NO SOURCE NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD33	S-1	CORRIDOR			FLOW IS NIL	No	WIND TUNNEL DRAIN (2nd FLOOR)
3	66	3-66-OPN-04	01S/SWSC	BFD34	H-8	EQUIPMENT ROOM			FLOW IS NIL	No	BFP & CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	BFD34	H-8	EQUIPMENT ROOM			FLOW IS NIL	No	COMPRESSOR TANK DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD35	G-1	GRIT BLASTING LAB			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD36	G-6	LAB			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD37	G-8	EQUIPMENT ROOM			5 DAYS PER WEEK	No	OIL CONTAINING EQUIPMENT
3	66	3-66-OPN-04	01S/SWSC	BFD38	G-7	GRIT BLASTING LAB			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD39	G-4	LAB			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD40	B-3	EQUIPMENT/RAD STORAGE			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD41	B-1	STORAGE/EQUIPMENT ROO			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD42	B-1	STORAGE/EQUIPMENT ROO			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD44	B-5	EQUIPMENT ROOM			FLOW IS NIL	No	BFP
3	66	3-66-OPN-04	01S/SWSC	BFD44	B-5	EQUIPMENT ROOM			TESTED ONCE PER	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD44	B-5	EQUIPMENT ROOM			FLOW IS NIL	No	WATER SYSTEM DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD45	B-5	EQUIPMENT ROOM			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD46	B-5	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER
3	66	3-66-OPN-04	01S/SWSC	BFD48	D-5	EQUIPMENT ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD49	D-4	CRANE ROOM			NO FLOW	No	NO SOURCES - OIL POTENTIAL
3	66	3-66-OPN-04	01S/SWSC	BFD50	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	BFP & COMPRESSED AIR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD50	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	COMPRESSED AIR TANK DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	BFD50	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	BFD50	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	OIL WATER SEPARATOR - WATER
3	66	3-66-OPN-04	01S/SWSC	BFD51	BY C-1	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BFD52	BY B-5	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BFD53	G-8	EQUIPMENT ROOM			5 DAYS PER WEEK	No	AIR HANDLER CONDENSATE
3	66	3-66-OPN-04	01S/SWSC	BFD58	C-1	LAB/EQUIPMENT ROOM			FLOW IS NIL	No	BFPs & PRVs, HOT WATER TK DRN
3	66	3-66-OPN-04	01S/SWSC	BFD59	C-1	LAB/EQUIPMENT ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD60	B-2	GENERATOR ROOM			FLOW IS NIL	No	OIL LEAKAGE
3	66	3-66-OPN-04	01S/SWSC	BFD61	D-1	EQUIPMENT ROOM			7 DAYS PER WEEK	No	PUMP JACKET WATER (CONDENSATE)
3	66	3-66-OPN-04	01S/SWSC	BFD61	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	CONDENSATE TANK DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD61	D-1	EQUIPMENT ROOM			FLOW IS NIL	No	CHILLED WATER DRAINS
3	66	3-66-OPN-04	01S/SWSC	BFD63	D-5	EQUIPMENT ROOM			NO FLOW	No	NONE - PLUGGED
3	66	3-66-OPN-04	01S/SWSC	BFD64	BY J-3	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BFD65	J-3	EQUIPMENT ROOM			FLOW IS NIL	No	NO SOURCES NEAR DRAIN
3	66	3-66-OPN-04	01S/SWSC	BFD66	K-3	EQUIPMENT ROOM			FLOW IS NIL	No	WATER & FIRE SYSTEM, & BFP
3	66	3-66-OPN-04	01S/SWSC	BFD67	BY K-3	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BFD68	BY P-1	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BFD69	S-1	CORRIDOR			FLOW IS NIL	No	WIND TUNNEL DRAIN (2nd FLOOR)
3	66	3-66-OPN-04	01S/SWSC	BFD70	BY G-1	STAIRWELL			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-04	01S/SWSC	BLV01	J-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	BLV02	K-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	BLV05	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	BLV06	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	LAVATORY
3	66	3-66-OPN-04	01S/SWSC	BSD03	K-5	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	BSD04	B-4	SHOP/STORAGE ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD05	R-12	JANITOR'S CLOSET			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	BSD06	R-4	MACHINE SHOP			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSD07	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD08	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD09	R-3	CHEMICAL STORAGE			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSD10	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD11	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD12	R-9	STORAGE/SHOP			5 DAYS PER WEEK	No	LABORATORY WASTEWATER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-04	01S/SWSC	BSD13	G-5	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSD14	H-1	JANITOR'S CLOSET			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD15	H-4	ELECTRICIAN'S SHOP			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD16	H-5	JANITOR'S SHOP			5 DAYS PER WEEK	No	CLEAN UP
3	66	3-66-OPN-04	01S/SWSC	BSD17	H-6	DARKROOM			5 DAYS PER WEEK	No	PHOTO RINSE (SILVER RECOVERY)
3	66	3-66-OPN-04	01S/SWSC	BSD18	G-4	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSD19	H-3	LOUNGE			5 DAYS PER WEEK	No	HAND WASHING
3	66	3-66-OPN-04	01S/SWSC	BSD20	G-6	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSD21	G-3	LAB			5 DAYS PER WEEK	No	LABORATORY WASTEWATER
3	66	3-66-OPN-04	01S/SWSC	BSH01	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-04	01S/SWSC	BSH02	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-04	01S/SWSC	BSH03	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-04	01S/SWSC	BSH04	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	SHOWER
3	66	3-66-OPN-04	01S/SWSC	BTL01	J-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL02	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL03	K-1	WOMEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL04	K-4	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL05	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL06	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL07	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BTL08	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	TOILET
3	66	3-66-OPN-04	01S/SWSC	BUR01	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	BUR02	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	BUR03	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	BUR04	R-2	MEN'S REST ROOM			5 DAYS PER WEEK	No	URINAL
3	66	3-66-OPN-04	01S/SWSC	BWF01	K-3	EQUIPMENT ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	BWF02	R-4	MACHINE SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	BWF03	R-3	CHEMICAL STORAGE			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-04	01S/SWSC	BWF04	S-2	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
3	66	3-66-OPN-05	DAYLIGHT	RD1	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD2	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD3	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD4	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER

REPORT # 53

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-05	DAYLIGHT	RD5	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD6	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD7	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD8	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-05	DAYLIGHT	RD9	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD10	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD11	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD12	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD13	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD14	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD15	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD16	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-06	DAYLIGHT	RD17	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD18	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD19	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD20	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD21	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD22	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD23	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD24	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-07	DAYLIGHT	RD25	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD29	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD30	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD31	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD32	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD33	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-08	03A022	RD34	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-09	DAYLIGHT	RD26	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-09	DAYLIGHT	RD27	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-09	DAYLIGHT	RD28	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
3	66	3-66-OPN-10	03A022	N/A	J-3	EQUIPMENT ROOM	1500	GPD	DISCHARGE ON CO	No	COOLING TOWER BLOW DOWN
3	66	3-66-OPN-11	ATMOSPHERE	N/A	H-8	EQUIPMENT ROOM			NO FLOW	No	COMPRESSOR TANK VENT (1/2")
3	66	3-66-OPN-12	DAYLIGHT	N/A	H-8	EQUIPMENT ROOM			NO FLOW	No	FIRE SYSTEM AUX. SUPPLY

REPORT # 53

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-13	DAYLIGHT	N/A	H-8	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-14	N/A	N/A	H-8	EQUIPMENT ROOM			NO FLOW	No	DISCONNECTED (2")
3	66	3-66-OPN-15	DAYLIGHT	N/A	N/A	OUTSIDE			AS REQUIRED	No	DRUM CONTAINMENT DRAIN
3	66	3-66-OPN-16	DAYLIGHT	N/A	N/A	OUTSIDE			AS REQUIRED	No	DRUM CONTAINMENT DRAIN
3	66	3-66-OPN-17	ATMOSPHERE	N/A	P-107	ELECTROPLATING LAB			NO FLOW	No	SANITARY VENT
3	66	3-66-OPN-18	ATMOSPHERE	N/A	R-108	MACHINE SHOP			NO FLOW	No	VACUUM PUMP VENT (3")
3	66	3-66-OPN-19	N/A	N/A	R-108	MACHINE SHOP			NO FLOW	No	DISCONNECTED (1-1/2")
3	66	3-66-OPN-20	ATMOSPHERE	N/A	R-108	MACHINE SHOP			NO FLOW	No	EQUIPMENT EXHAUST (RAD)
3	66	3-66-OPN-21	N/A	N/A	N/A	OUTSIDE			NO FLOW	No	NITROGEN TANK FILL
3	66	3-66-OPN-22	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	NITROGEN TANK VENT
3	66	3-66-OPN-23	ATMOSPHERE	N/A	R-108	MACHINE SHOP			NO FLOW	No	NITROGEN PRV
3	66	3-66-OPN-24	ATMOSPHERE	N/A	R-108	MACHINE SHOP			NO FLOW	No	VACUUM PUMP EXHAUST (4" PVC)
3	66	3-66-OPN-25	ATMOSPHERE	N/A	R-108	MACHINE SHOP			NO FLOW	No	VACUUM PUMP EXHAUST
3	66	3-66-OPN-26	DAYLIGHT	N/A	R-100	RAD. MACHINE SHOP			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-27	ATMOSPHERE	N/A	R-100	RAD. MACHINE SHOP			NO FLOW	No	VACUUM PUMP VENT
3	66	3-66-OPN-28	N/A	N/A	R-100	RAD. MACHINE SHOP			NO FLOW	No	DISCONNECTED
3	66	3-66-OPN-29	N/A	N/A	R-100	RAD. MACHINE SHOP			NO FLOW	No	ARGON FILL CONNECTION
3	66	3-66-OPN-30	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	ARGON FILL LINE VENT
3	66	3-66-OPN-31	DAYLIGHT	N/A	R-100	RAD. MACHINE SHOP			NO FLOW	No	STEAM (INACTIVE)
3	66	3-66-OPN-32	DAYLIGHT	N/A	R-11	EQUIPMENT ROOM			NO FLOW	No	WATER (INACTIVE)
3	66	3-66-OPN-33	UNKNOWN	N/A	S-104A	LASER LAB			NO FLOW	No	UNIDENTIFIED
3	66	3-66-OPN-34	DAYLIGHT	N/A	S-104	LASER LAB			7 DAYS PER WEEK	No	STEAM CONDENSATE DRAIN
3	66	3-66-OPN-35	N/A	N/A	S-104	LASER LAB			NO FLOW	No	DISCONNECTED (STEAM COND.)
3	66	3-66-OPN-36	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	STEAM TANK VENT
3	66	3-66-OPN-37	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	STEAM TANK PRV
3	66	3-66-OPN-38	DAYLIGHT	N/A	K-3	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-39	DAYLIGHT	N/A	K-3	EQUIPMENT ROOM			NO FLOW	No	FIRE SYSTEM AUX. SUPPLY
3	66	3-66-OPN-40	DAYLIGHT	N/A	K-3	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-41	DAYLIGHT	N/A	J-3	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-42	ATMOSPHERE	N/A	D-1	EQUIPMENT ROOM			NO FLOW	No	GAS VENT
3	66	3-66-OPN-43	DAYLIGHT	N/A	D-105	OFFICE			MANUALLY	No	INDUSTRIAL WATER DRAIN
3	66	3-66-OPN-44	ATMOSPHERE	N/A	D-1	EQUIPMENT ROOM			NO FLOW	No	GAS VENT
3	66	3-66-OPN-45	ATMOSPHERE	N/A	D-1	EQUIPMENT ROOM			NO FLOW	No	GAS VENT (12")

REPORT # 53

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	66	3-66-OPN-46	N/A	N/A	D-103	MAT. SHOP/FURNACE ROO			NO FLOW	No	DISCONNECTED (GAS MANIFOLD)
3	66	3-66-OPN-47	DAYLIGHT	N/A	D-5	EQUIPMENT ROOM			MANUALLY	No	WATER DRAIN
3	66	3-66-OPN-48	ATMOSPHERE	N/A	D-103	MAT. SHOP/FURNACE RM			NO FLOW	No	VENT
3	66	3-66-OPN-49	DAYLIGHT	N/A	D-103	MAT. SHOP/FURNACE RM			MANUALLY	No	CHILLED WATER DRAIN
3	66	3-66-OPN-50	N/A	N/A	D-5	EQUIPMENT ROOM			NO FLOW	No	DISCONNECTED (FURNACE DRAIN)
3	66	3-66-OPN-51	N/A	N/A	D-5	EQUIPMENT ROOM			NO FLOW	No	DISCONNECTED (FURNACE DRAIN)
3	66	3-66-OPN-52	DAYLIGHT	N/A	C-106	TOOL/EQUIPMENT STORAG			7 DAYS PER WEEK	No	STEAM CONDENSATE DRAIN
3	66	3-66-OPN-53	N/A	N/A	C-106	TOOL/EQUIPMENT STORAG			NO FLOW	No	DISCONNECTED (CONDENSATE)
3	66	3-66-OPN-54	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	STEAM TANK VENT
3	66	3-66-OPN-55	ATMOSPHERE	N/A	N/A	OUTSIDE			NO FLOW	No	STEAM TANK PRV
3	66	3-66-OPN-56	DAYLIGHT	N/A	C-106	TOOL/EQUIPMENT STORAG			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-57	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	ROOF DRAIN
3	66	3-66-OPN-58	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	ROOF DRAIN
3	66	3-66-OPN-59	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	ROOF DRAIN
3	66	3-66-OPN-60	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	ROOF DRAIN
3	66	3-66-OPN-61	UNKNOWN	N/A	C-109	BREAK ROOM			NO FLOW	No	UNIDENTIFIED
3	66	3-66-OPN-62	ATMOSPHERE	N/A	B-100	FOUNDRY			NO FLOW	No	FURNACE VENT (12")
3	66	3-66-OPN-63	ATMOSPHERE	N/A	B-107	MACHINE SHOP			NO FLOW	No	DUST COLLECT SYSTEM EXHAUST
3	66	3-66-OPN-64	DAYLIGHT	N/A	B-5	EQUIPMENT ROOM			NO FLOW	No	FIRE SYSTEM AUX. SUPPLY
3	66	3-66-OPN-65	DAYLIGHT	N/A	B-5	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-66	DAYLIGHT	N/A	B-5	EQUIPMENT ROOM			ANNUAL TESTING	No	FIRE SYSTEM TEST DRAIN
3	66	3-66-OPN-67	DAYLIGHT	N/A	B-105	OFFICE ATTIC			FLOW IS NIL	Yes	AIR CONDITIONER CONDENSATE
3	66	3-66-OPN-68	ATMOSPHERE	N/A	G-1	LABORATORY			NO FLOW	No	GAS MANIFOLD PRV VENT
3	66	N/A	N/A	1SD02	D-108	MATERIAL PREP. & FINISH			NO FLOW	No	NONE - DISCONNECTED
3	66	N/A	N/A	1SD17	P-103	ELECTROPLATING LAB			NO FLOW	No	HAZ WASTE STORAGE
3	66	N/A	N/A	BCD01	K-2	HIGH SECURITY LAB			5 DAYS PER WEEK	No	DRAINAGE CONTAINERIZED
3	66	N/A	N/A	BCD02	G-2	LAB			5 DAYS PER WEEK	No	DRAINAGE CONTAINERIZED
3	66	N/A	N/A	BCD03	G-2	LAB			5 DAYS PER WEEK	No	DRAINAGE CONTAINERIZED
3	66	N/A	N/A	BCD04	G-3	LAB			NO FLOW	No	NONE - DISCONNECTED
3	66	N/A	N/A	BCD06	G-5	LAB			NO FLOW	No	NONE - DISCONNECTED
3	66	N/A	N/A	BCD07	G-5	LAB			NO FLOW	No	NONE - DISCONNECTED
3	66	N/A	N/A	BCD08	G-5	LAB			NO FLOW	No	NONE - DISCONNECTED
3	451	3-451-OPN-1	01S/SWSC	1SD1	N/A	LOUNGE			5 DAYS PER WEEK	No	HAND WASHING

REPORT # 53

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
3	451	3-451-OPN-2	N/A	N/A	N/A	OFFICE			NO FLOW	No	NONE - DISCONNECTED A/C
3	451	3-451-OPN-3	N/A	N/A	N/A	OFFICE			NO FLOW	No	NONE - DISCONNECTED A/C
3	451	3-451-OPN-4	DAYLIGHT	N/A	N/A	OUTSIDE			FLOW IS NIL	No	AIR HANDLER CONDENSATE
3	451	3-451-OPN-5	DAYLIGHT	N/A	N/A	OUTSIDE			FLOW IS NIL	Yes	AIR CONDITIONER CONDENSATE

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy 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)
03A022	35	52	17	106	19	1	Tributary to Mortandad Canyon, an ephemeral tributary to Rio Grande

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
03A022	3-66-OPN-10			
	Cooling tower blowdown	1500GPD	None	

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

CONTINUED FROM THE FRONT

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

☒ 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)*
03A022	Cooling tower blowdown	5	12	0.0015	0.0015	1500 GPD	1500 GPD	260 day/yr

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)* ☐ 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)* ☐ 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)*

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)* ☐ 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
EPA Docket No. VI-92-1306		All	Complete Waste Stream Characterization surveys and implement corrective actions.	7/31/93	FY96

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

CONTINUED FROM PAGE 2

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

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
see datasheet			

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)

CONTINUE ON REVERSE

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)* ☒ 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)* ☒ 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, AREA MANAGER, DOE	505-667-5105
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-9390
C. SIGNATURE	D. DATE SIGNED

Data from worst case composite.

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. 03A022

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	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	2.0	11.4						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	42.0	238.5						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	7.4	42.0						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	7.0	39.7						mg/l	g/d			
e. Ammonia *(as N)*	< .01	< 56.775						mg/l	mg/d			
f. Flow	VALUE 1500		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 36.9 C		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.8	MAXIMUM 8.8	MINIMUM 6.0	MAXIMUM 9.0				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	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	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.24	18.4						mg/l	g/d			
b. Chlorine, Total Residual		X	0.0	0.0						mg/l	mg/d			
c. Color	X		10							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.52	3.0						mg/l	g/d			
f. Nitrate-Nitrite *(as N)*	X		1.13	6.4						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		2.3	13.1						mg/l	g/d			
h. Oil and Grease		X	< 1.2	< 6.8						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.306	1.7						mg/l	g/d			
j. Radioactivity														
(1) Alpha, Total	X		14	79.5						pCi/l	nCi/d			
(2) Beta, Total	X		6.6	37.5						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.07	0.4						pCi/l	nCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		143	811.9						mg/l	g/d			
l. Sulfide (as S)	X		70.2	398.6						mg/l	g/d			
m. Sulfite (as SO_3) (14265-45-3)	X		18.8	106.7						mg/l	g/d			
n. Surfactants	X		0.11	0.6						mg/l	g/d			
o. Aluminum, Total (7429-90-5)	X		0.06	0.3						mg/l	g/d			
p. Barium, Total (7440-39-3)	X		0.11	0.6						mg/l	g/d			
q. Boron, Total (7440-42-8)	X		0.33	1.9						mg/l	g/d			
r. Cobalt, Total (7440-48-4)		X	0.07	0.4						mg/l	g/d			
s. Iron, Total (7439-89-6)	X		1.1	6.2						mg/l	g/d			
t. Magnesium, Total (7439-95-4)	X		5.8	32.9						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)	X		1.7	9.7						mg/l	g/d			
v. Manganese, Total (7439-96-5)	X		0.05	0.3						mg/l	g/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 0.3						mg/l	g/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 22.7						mg/l	mg/d			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A022

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

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	< 0.050	< 0.3						mg/l	g/d			
2M. Arsenic, Total (7440-38-2)		X		0.04	0.2						mg/l	g/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.1	< 0.6						mg/l	g/d			
4M. Cadmium, Total (7440-43-9)		X		.004	22.7						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.260	1.5						mg/l	g/d			
6M. Copper, Total (7440-50-8)		X		0.1	0.6						mg/l	g/d			
7M. Lead, Total (7439-92-1)		X		.050	0.3						mg/l	g/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 1.1						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		.28	1.6						mg/l	g/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 5.7						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.01	< 56.8						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)		X		0.51	2.9						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		.071	0.4						mg/l	g/d			
14M. Cyanide, Total (57-12-5)		X		.033	0.2						mg/l	g/d			
15M. Phenols, Total			X	< .01	< 56.8						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

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	< 0.005	< 28.4						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 28.4						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 28.4						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 28.4						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 28.4						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.1						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 28.4						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 28.4						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 28.4						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 28.4						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 28.4						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 28.4						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	< 0.005	< 28.4						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 28.4						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 56.8						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 56.8						mg/l	mg/d			

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

OUTFALL NUMBER: 03A022

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 – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 28.4						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 28.4						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 28.4						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 28.4						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 28.4						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 28.4						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 28.4						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 28.4						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 28.4						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 56.8						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 56.8						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 56.8						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 56.8						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 56.8						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 56.8						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 56.8						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 56.8						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 56.8						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 56.8						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 56.8						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 56.8						mg/l	mg/d			

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 – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 56.8						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 56.8						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 56.8						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 56.8						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 56.8						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 56.8						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 56.8						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 56.8						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 56.8						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 56.8						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 56.8						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 56.8						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 56.8						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 56.8						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 56.8						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 56.8						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 56.8						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 56.8						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 56.8						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 56.8						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 56.8						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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Form Approved.
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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	< 0.010	< 56.8						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 56.8						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 56.8						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 56.8						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 56.8						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 56.8						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 56.8						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 56.8						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X	< 0.010	< 56.8						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 56.8						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 56.8						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 56.8						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 56.8						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 56.8						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 56.8						mg/l	mg/d			
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X	< 0.010	< 56.8						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 56.8						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 56.8						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 56.8						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 56.8						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 56.8						mg/l	mg/d			

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 (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)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 46.9						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 46.9						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 46.9						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 46.9						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 0.3						ug/l	mg/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 0.2						ug/l	mg/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 0.5						ug/l	mg/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 0.1						ug/l	mg/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 0.6						ug/l	mg/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 1.2						ug/l	mg/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 0.3						ug/l	mg/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 0.4						ug/l	mg/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 0.4						ug/l	mg/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 0.4						ug/l	mg/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 0.2						ug/l	mg/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 0.4						ug/l	mg/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 0.4						ug/l	mg/d			
14P. Endrin (72-20-8)			X	< 0.06	< 0.3						ug/l	mg/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 2.9						ug/l	mg/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 0.1						ug/l	mg/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	03A022

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 – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.08	< 0.4						ug/l	mg/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 3.3						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 3.3						ug/l	mg/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11096-82-5)			X	< 0.71	< 3.3						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 11.7						ug/l	mg/d			

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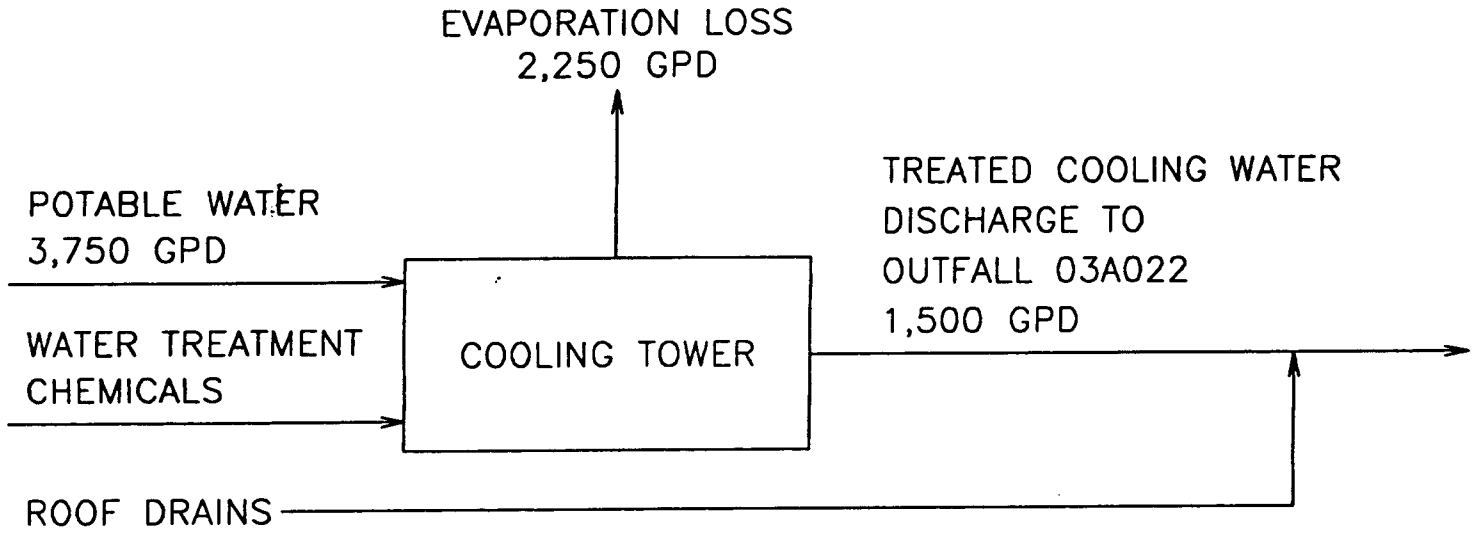


TA-3-127
COOLING TOWER

DYE STUDY INFORMATION

BUILDING 3-66

DRAIN #	ROOM #	VERIFICATION DESTINATION
1LV02	D-109	Sanitary Manhole 670
1LV06	D-109	Sanitary Manhole 671
1SD07	S-104A	Sanitary Manhole 671
1SD09	R-108	Sanitary Manhole 671
1SD10	p-103	RLW Sewer (1)
1SD13	H-107	Sanitary Manhole 671
1SD14	H-105B	Sanitary Manhole 671
1SD15	H-105B	RLW Sewer (1)
1SD32	C-102	Sanitary Manhole 670
1SD34	D-103	Sanitary Manhole 671
1SD45	H-106	Sanitary Manhole 671
BSD04	B-4	Sanitary Manhole 671
BFD14	J-3	Sanitary Manhole 671
BSD16	H-5	Sanitary Manhole 671

BUILDING 3-451

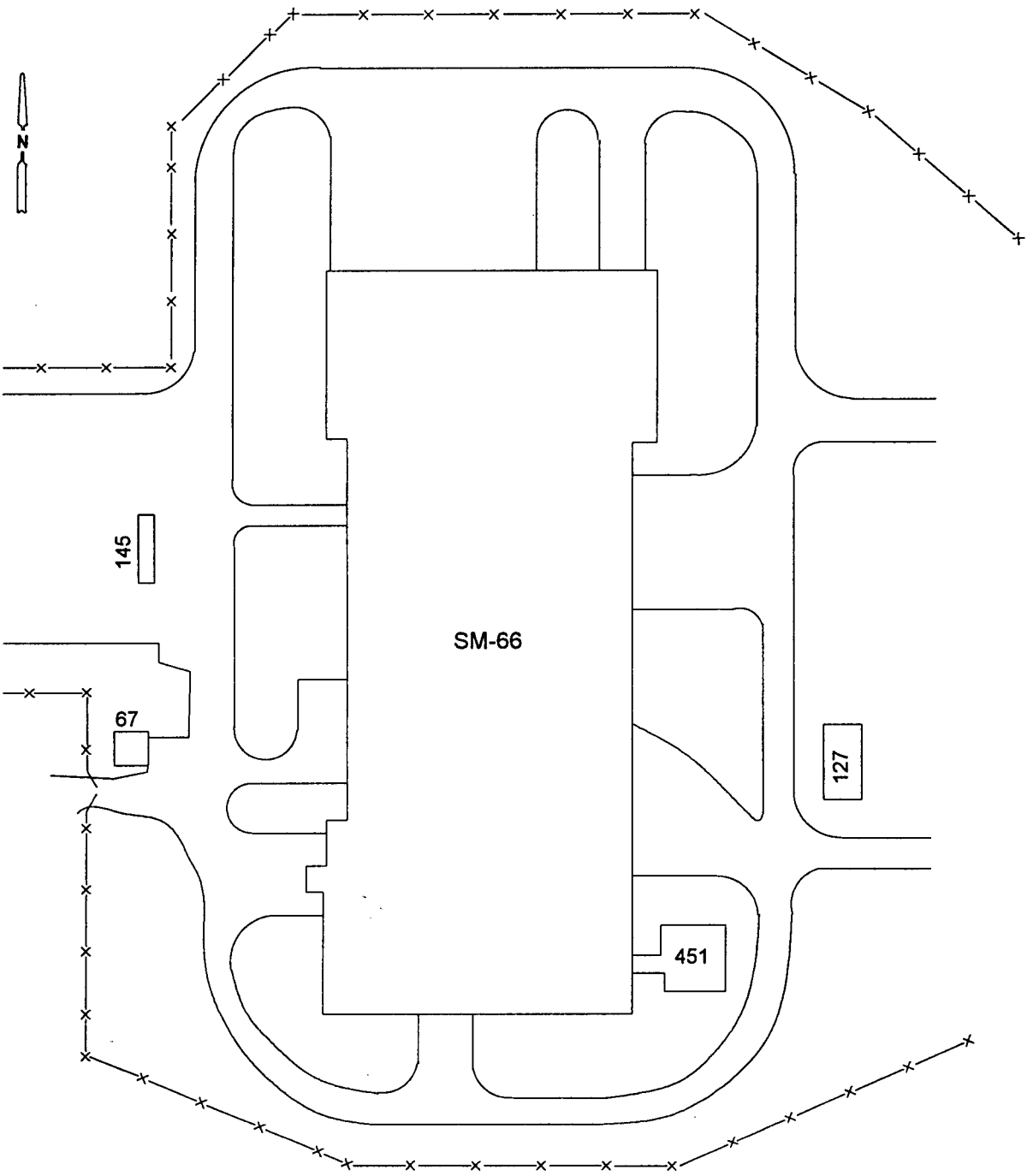
DRAIN #	ROOM #	VERIFICATION DESTINATION
1SD01	N/A	Sanitary Manhole 671

Verification of drain piping for building 3-66 was conducted to verify LANL "as-built" piping drawings, to produce the drain schemtic drawings in this report (Figures 2-5, 7 & 8). The single sink drain in building 3-451 was verified by dye study to confirm the drain schematic shown for the building in Figure 9.

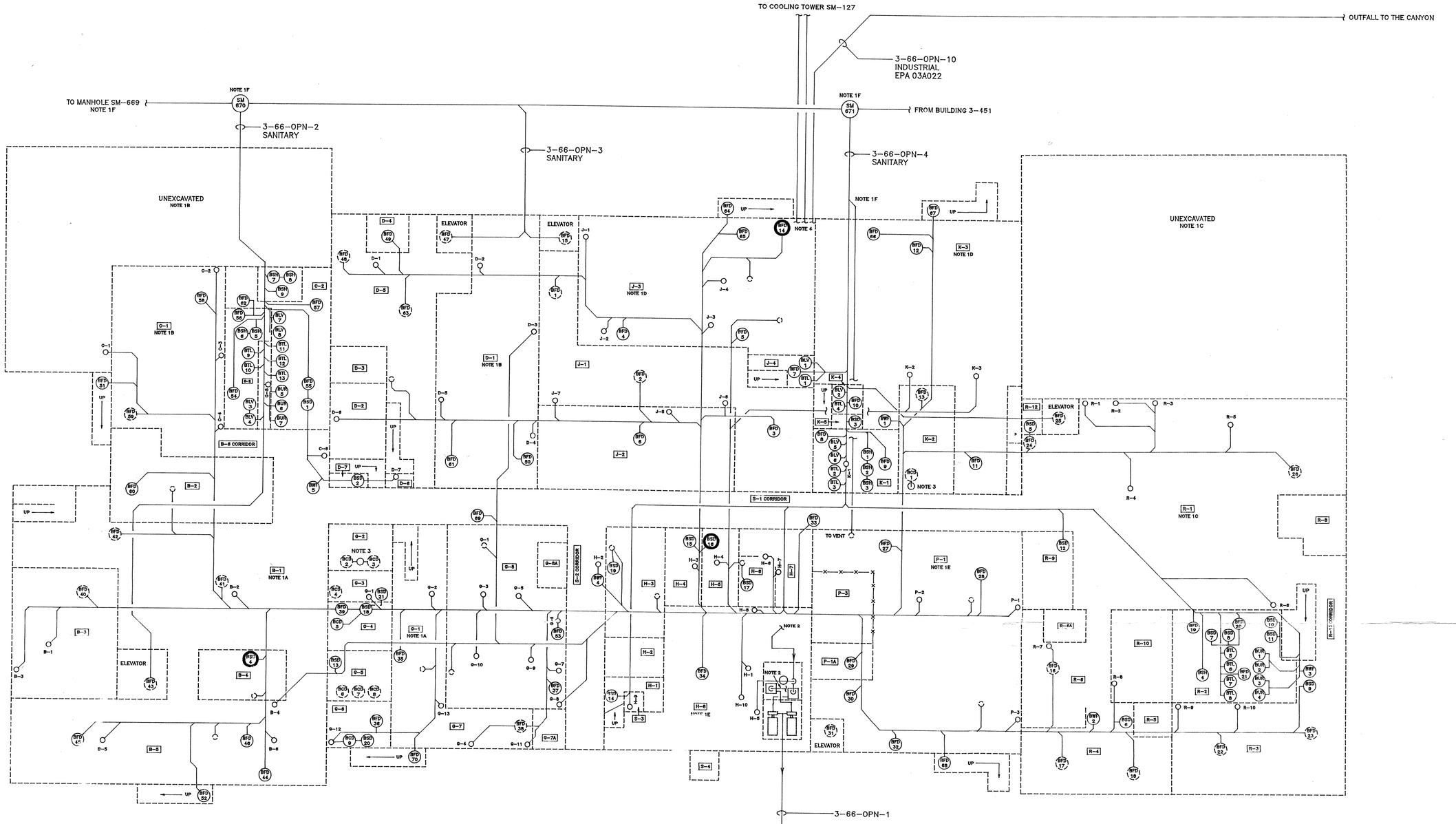
The drain schematics show general pipe layout, however their function is primarily for definition of piping connections and destination of drainage. Most first and second floor drain piping in Building 3-66 was visually traced from below, thus piping verification is much more complete than one would conclude from the number of dye verified drains.

---

(1) RLW sewer destination was established by elimination of other possible destinations.



SANTA FE ENGINEERING, LTD.		
SIGMA BUILDING - SM-66 AREA PLAN DRAWING	DRAWN	MSC
	DESIGN	MSC
	CHECKED	PEB
	DATE	12/21/92
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 EM-8	11056-53	FIGURE 1



NOTE 1 – PIPING LAYOUT FROM DRAWINGS:

A) ENG-C24181, 24215, 24227, 24226, 24419, 24427 & 24428
B) ENG-C24183, 24229, 24229, 24430, 24436 & 24448
C) ENG-C24187, 24221, 24222, 24425, 24426, 24447 & 25413
D) ENG-C24185, 24232, 24236, 24433, 24435, 24447 & 43940 (SHTS. 4 & 5)
E) ENG-C24178, 24218, 24234, 24420, 24434 & 24443
F) ENG-C24168, C44249.

NOTE 2 – SEE FIRST FLOOR DRAWING (FIGURE 3) FOR CONTINUATION.

NOTE 3 – DRAIN TO CONTAINER.

NOTE 4 – PIPING TO/FROM COOLING TOWER IS CONNECTED TO A HEAT EXCHANGER INSIDE ROOM J-3. DISCHARGE LINE IS BLOW DOWN FROM THE RETURN LINE TO THE COOLING TOWER.

LEGEND:

- SANITARY DRAIN LINE
- ACID/RAD DRAIN LINE
- DRAIN
- DISCONNECTED/PLUGGED DRAIN
- DYE VERIFIED DRAIN
- RISER UP (LABELED)
- DISCONNECTED RISER UP

DRAIN SYMBOLS
BCD – BASEMENT CUP DRAIN
BFD – BASEMENT FLOOR DRAIN
BLV – BASEMENT LAVATORY
BSD – BASEMENT SINK DRAIN
BSH – BASEMENT SHOWER DRAIN
BTL – BASEMENT TOILET
BUR – BASEMENT URINAL
BWF – BASEMENT WATER FOUNTAIN

15289-A

SANTA FE ENGINEERING, LTD.

SIGMA BUILDING – SM-66
BASEMENT DRAIN SCHEMATIC

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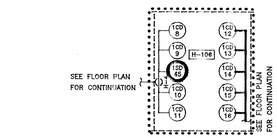
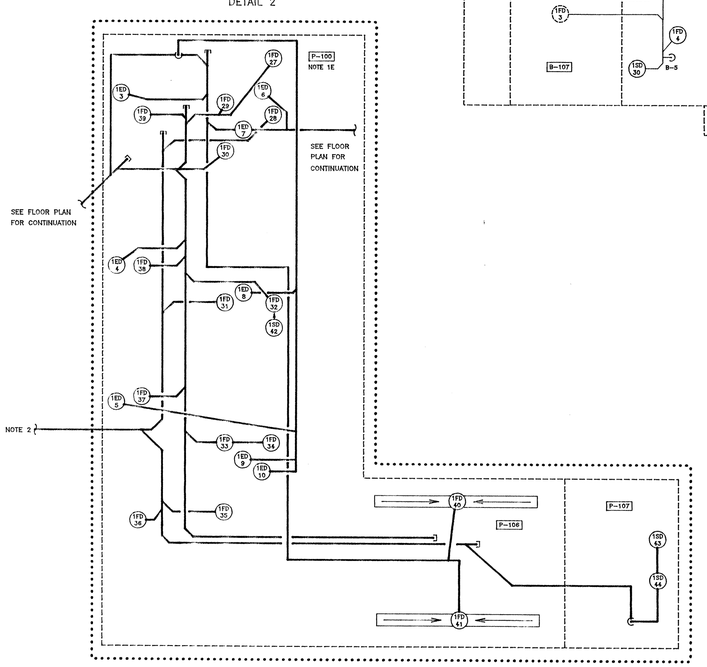
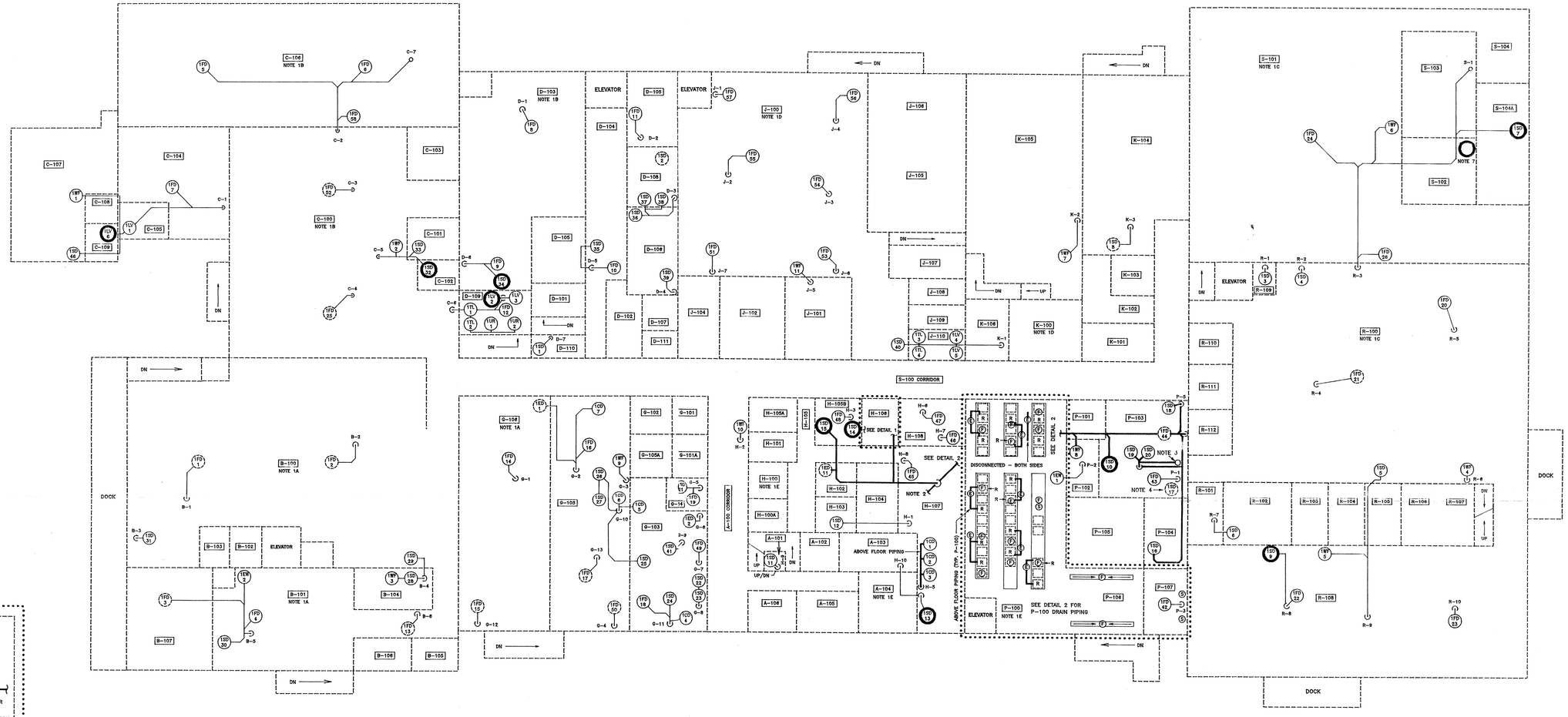
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-53	FIGURE 2	



DETAIL 1



DETAIL 2



NOTE 1 – PIPING LAYOUT FROM DRAWINGS:
- A) ENG–C24182, 24214, 24223, 24224, 24419. 24417 & 24428
- B) ENG–C24184, 24228, 24230, 24237, 24430, 24431, 24436, 24437 & 24449
- C) ENG–C24188, 24219, 24220, 24227, 24426, 24416 & 24429
- D) ENG–C24186, 24231, 24235, 24433, 24435 & 4940 (SHTS. 4 & 5)
- E) ENG–C24179, 24192, 24216, 24233, 24420, 24411 & 24434

NOTE 2 – SEE BASEMENT DRAWING (FIGURE 2) FOR CONTINUATION.

NOTE 3 – VENT RISER LABELED "SANITARY" – RELABEL "ACID/RD" AND REMOVE HOSE CONNECTIONS TO PREVENT POSSIBLE DRAINAGE OF ORGANIC WASTE.

NOTE 4 – SINK DRAIN DISCONNECTED – SINK USED AS SATELLITE STORAGE OF HAZARDOUS WASTE.

NOTE 5 – DRAIN PIPING IS BELOW THE FLOOR, EXCEPT AS NOTD.

NOTE 6 – FIRST FLOOR DRAIN PIPING WAS VERIFIED VISUALLY FDM THE BASEMENT, AND CONFIRMED WHERE INDICATED BY DYE VERIFICATION. VERIFICATION OF ACID/RAD DRAIN PIPING WAS BY PROCESS OF ELIMINATION – DYE WAS NOT SEEN IN THE SANITARY MANHOLE.

NOTE 7 – EQUIPMENT DRAIN WAS VERIFIED TO BE A CLOSED LOP COOLING SYSTEM DRAIN WITHIN THE BUILDING.

LEGEND:
- – SANITARY DRAIN LINE
- – ACID/RAD DRAIN LINE
- – DRAIN
- – DISCONNECTED/PLUGGED DRAIN
- – DYE VERIFIED DRAIN
- E – EQUIPMENT DRAIN
- F – FLOOR DRAIN
- S – SINK DRAIN
- R – RINSE TANK
- – RISER UP (LABELED)
- – DISCONNECTED RISER UP
- – RISER DOWN (LABELED)

DRAIN SYMBOLS
1CD – FIRST FLOOR CUP DRAIN
1ED – FIRST FLOOR EQUIPMENT DRAIN
1EW – FIRST FLOOR EYE WASH
1FD – FIRST FLOOR FLOOR DRAIN
1LV – FIRST FLOOR LAVATORY
1SD – FIRST FLOOR SINK DRAIN
1TL – FIRST FLOOR TOILET
1UR – FIRST FLOOR URINAL
1WF – FIRST FLOOR WATER FOUNTAIN

15289-B

SANTA FE ENGINEERING, LTD.

SIGMA BUILDING – SM–66
FIRST FLOOR DRAIN SCHEMATIC

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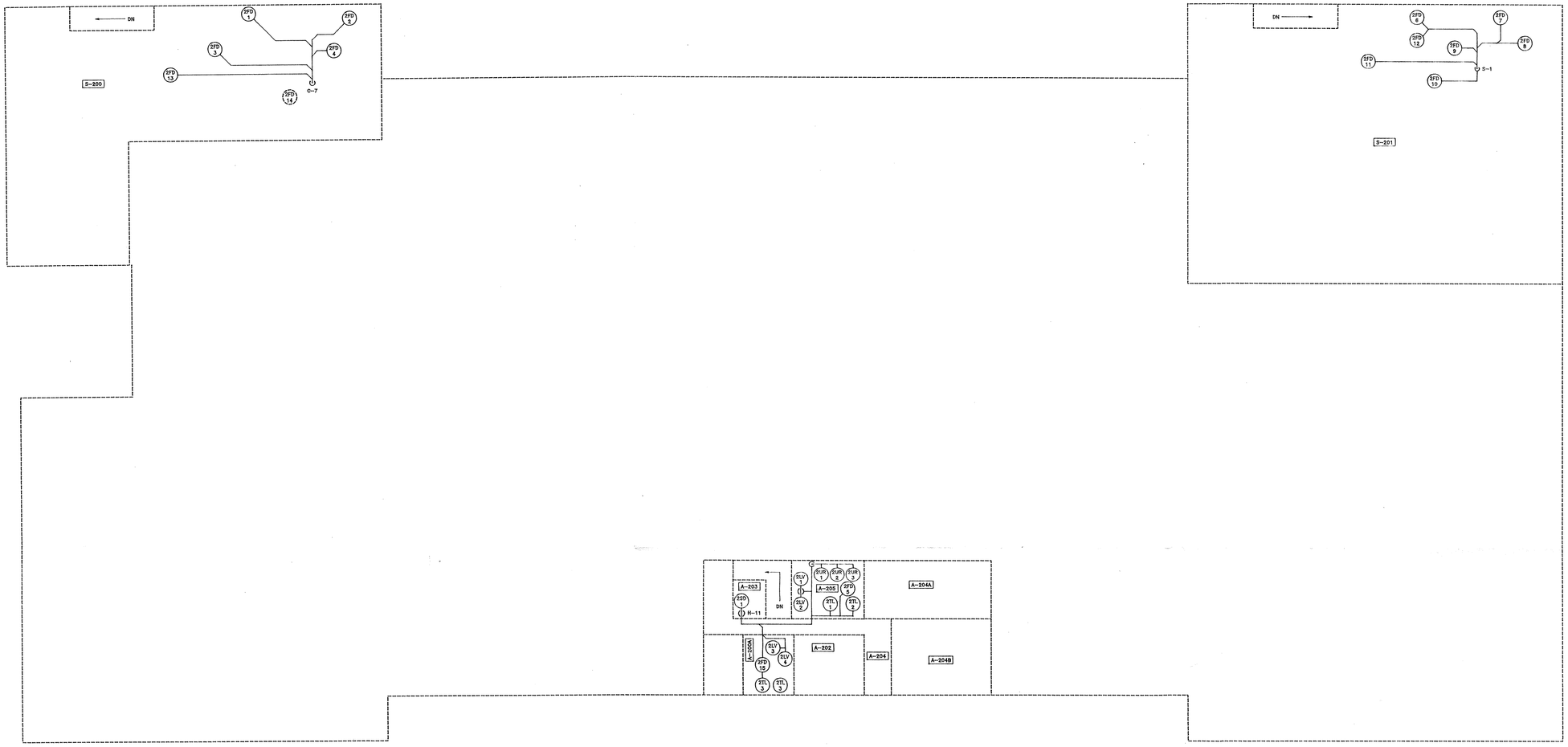
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056–53	FIGURE 3	



NOTE 1 – PIPING LAYOUT FROM DRAWINGS:
ENG–C24180, 24239, 24429, 24431 & 24449

LEGEND:

—— – SANITARY DRAIN LINE

◯ – DRAIN

◌ – DISCONNECTED/PLUGGED DRAIN

– RISER DOWN (LABELED)

DRAIN SYMBOLS
2FD – SECOND FLOOR FLOOR DRAIN
2LV – SECOND FLOOR LAVATORY
2SD – SECOND FLOOR SINK DRAIN
2TL – SECOND FLOOR TOILET
2UR – SECOND FLOOR URINAL

15289-C

SANTA FE ENGINEERING, LTD.

SIGMA BUILDING – SM–66
SECOND FLOOR DRAIN SCHEMATIC

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DESIGN	MSC
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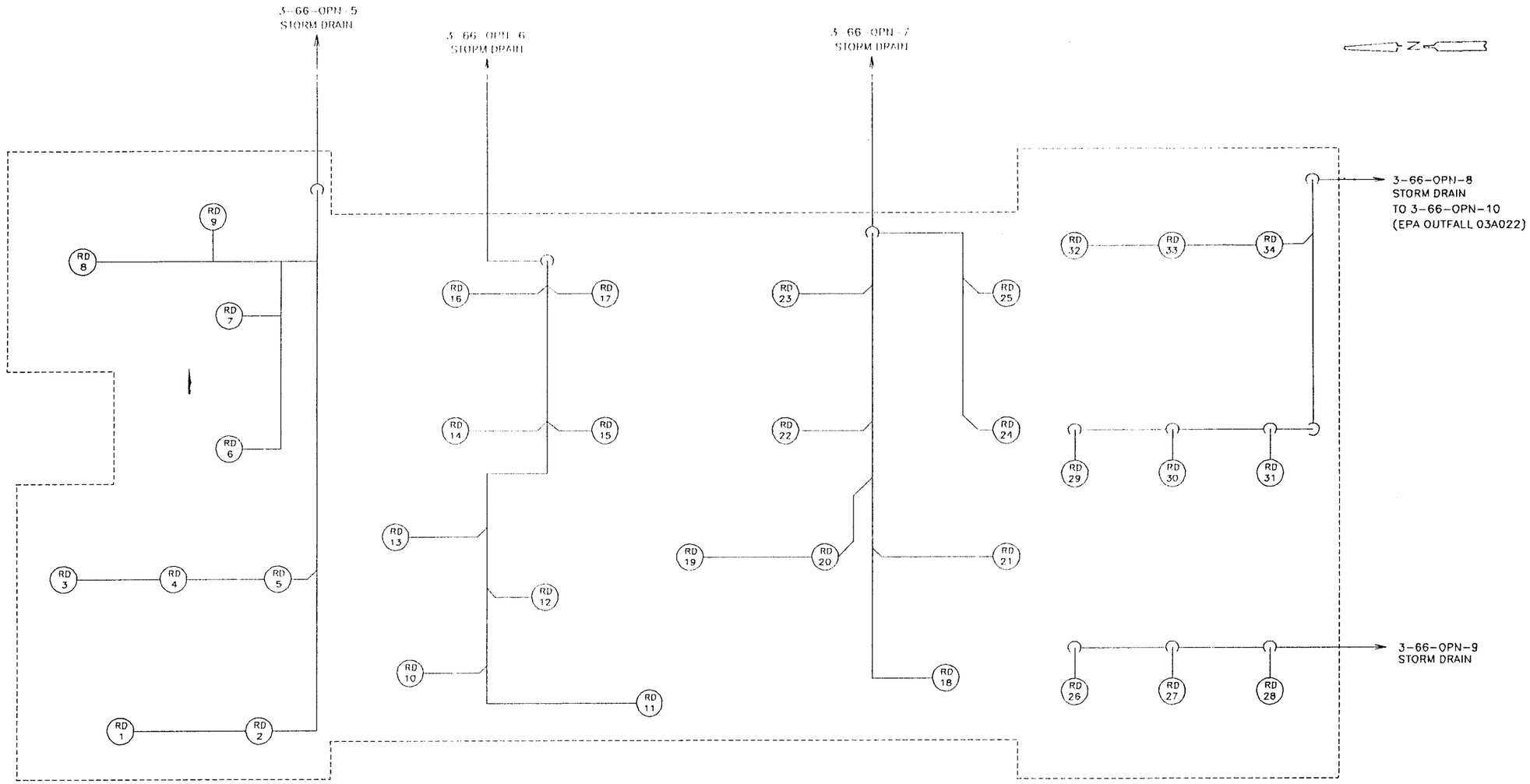
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056–53	FIGURE 4	



NOTE 1 – PIPING LAYOUT FROM DRAWINGS:
ENG-C24415, 24416, 24417

LEGEND:

– SANITARY DRAIN LINE

(RD) – ROOF DRAIN

– RISER DOWN (LABELED)

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SIGMA BUILDING – SM-66 ROOF DRAIN SCHEMATIC	DRAWN	MSC	
	DESIGN	MSC	
	CHECKED	PEB	
	DATE	12-21-92	
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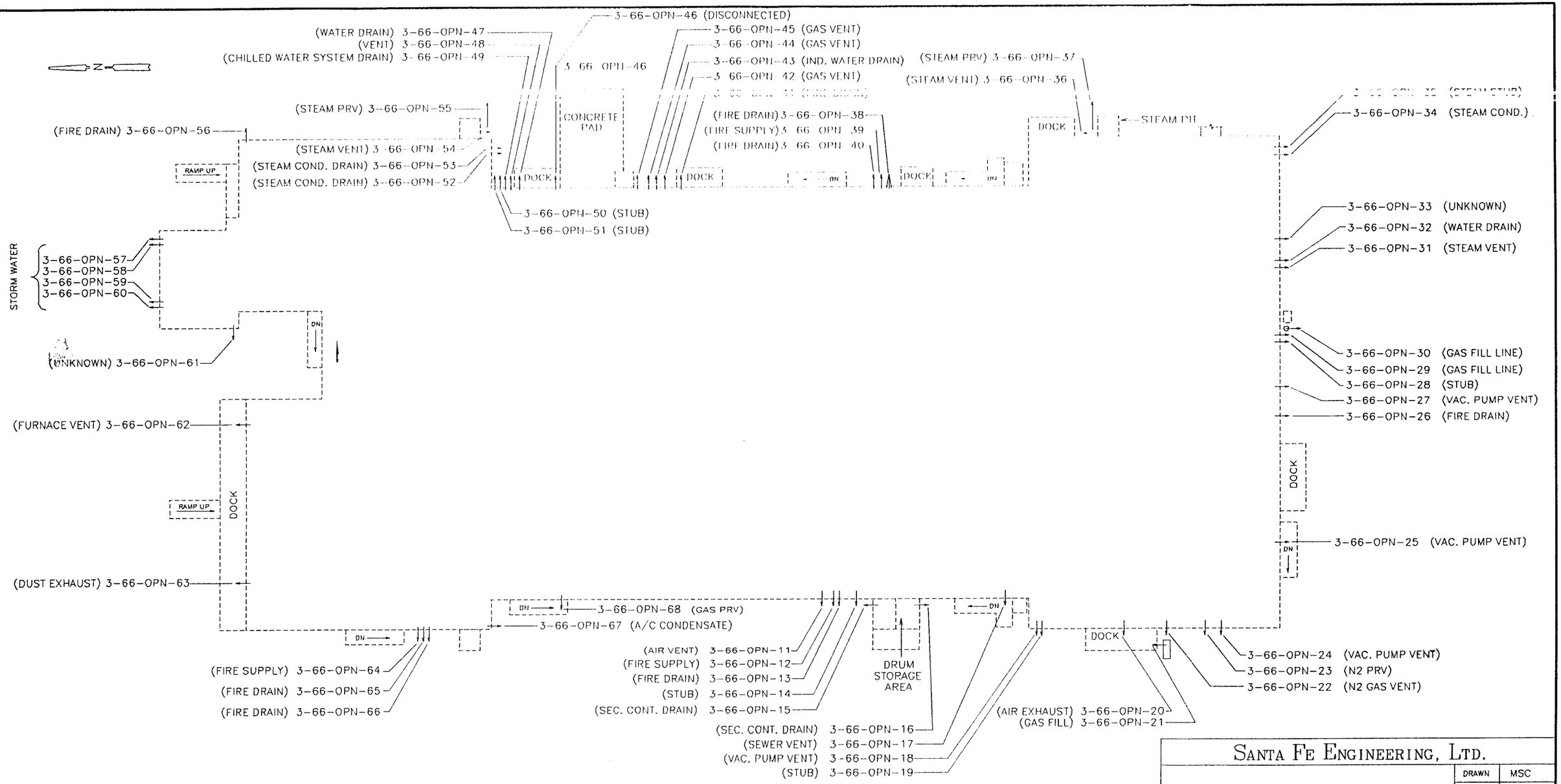
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-53	FIGURE 5	



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SIGMA BUILDING – SM-66
OUTFALLS

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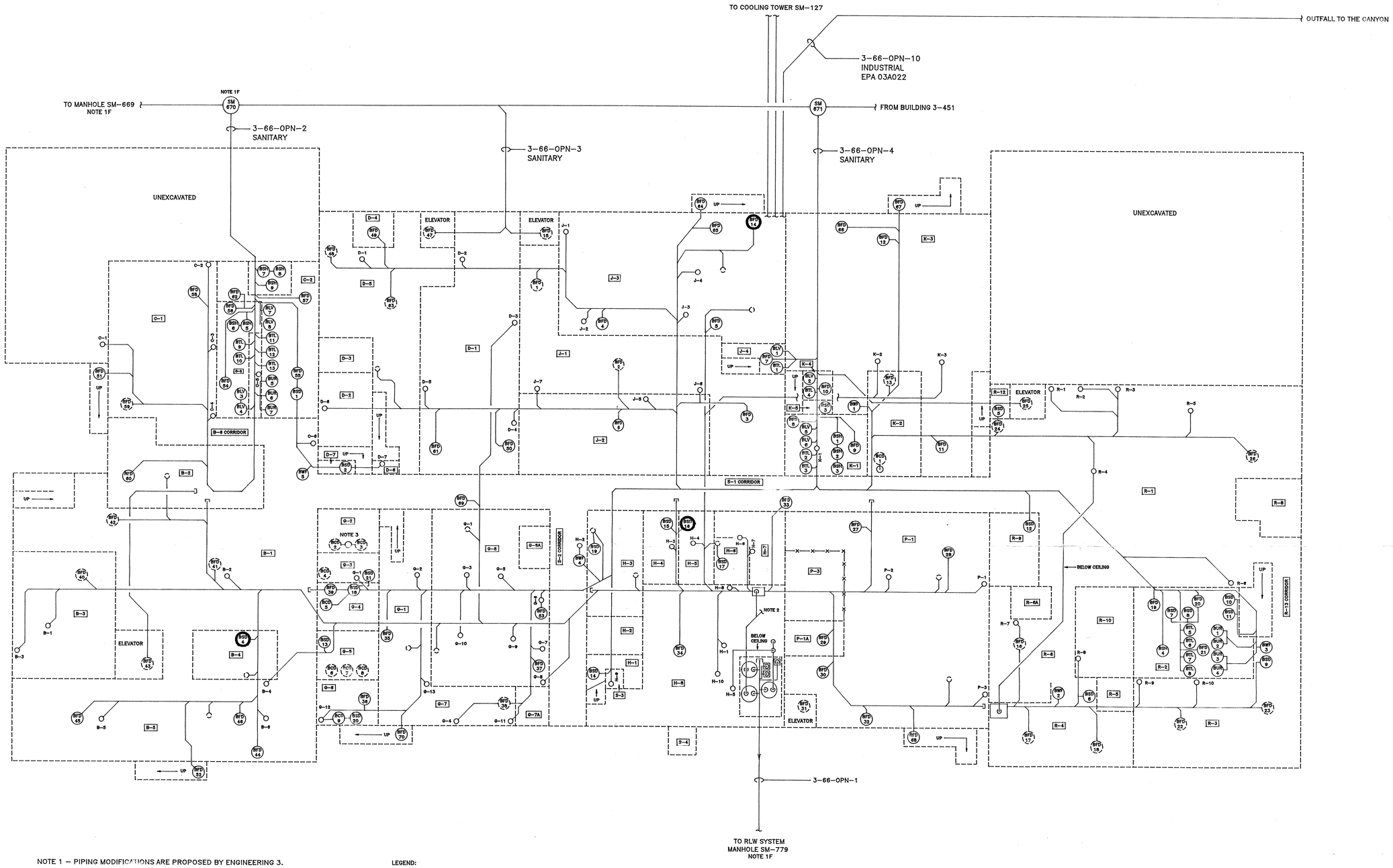
CLASSIFICATION | REVIEWER | DATE

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

REQUESTING GROUP EM-8 | 11057-53 | FIGURE 6 | 1



NOTE 1 – PIPING MODIFICATIONS ARE PROPOSED BY ENGINEERING 3. LAYOUT SHOWN IS DEFINED BY EXISTING LANL "AS-BUILT" DRAWINGS, DYE VERIFICATION, AND ENG-3 MODIFICATION DRAWINGS.

NOTE 2 – SEE FIRST FLOOR DRAWING (FIGURE 8) FOR CONTINUATION.

LEGEND:

- SANITARY DRAIN LINE
- ACID/RAD DRAIN LINE
- DRAIN
- DISCONNECTED/PLUGGED DRAIN
- DYE VERIFIED DRAIN
- RISER UP (LABELED)
- DISCONNECTED RISER UP

DRAIN SYMBOLS
BCD – BASEMENT CUP DRAIN
BFD – BASEMENT FLOOR DRAIN
BLV – BASEMENT LAVATORY
BSD – BASEMENT SINK DRAIN
BSH – BASEMENT SHOWER DRAIN
BTL – BASEMENT TOILET
BUR – BASEMENT URINAL
BWF – BASEMENT WATER FOUNTAIN

15289-D

SANTA FE ENGINEERING, LTD.

SIGMA BUILDING – SM-66
ENG-3 PROPOSED MODIFICATIONS
BASEMENT DRAIN SCHEMATIC

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DESIGN	MSC
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DATE	12-21-92

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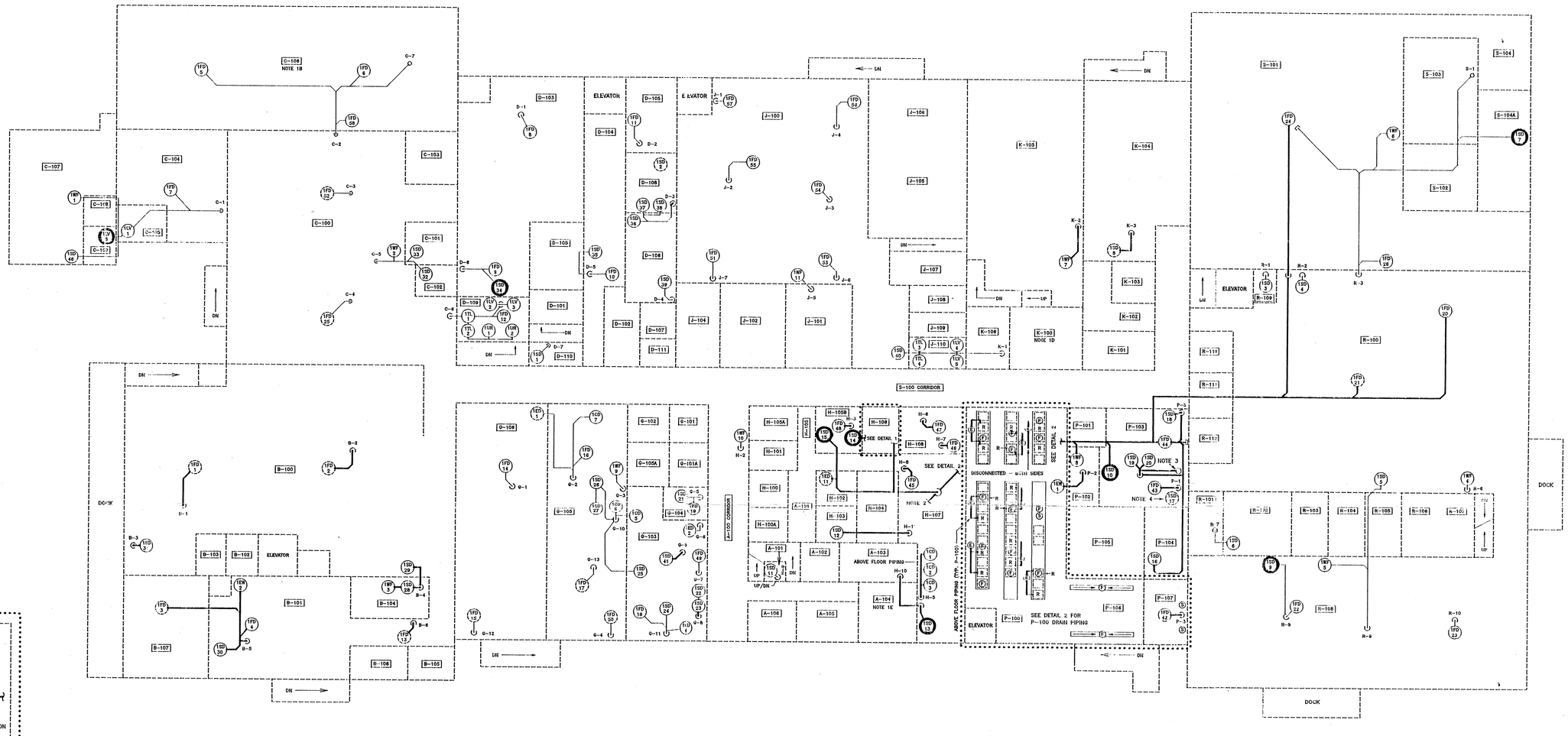
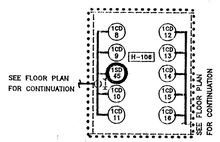
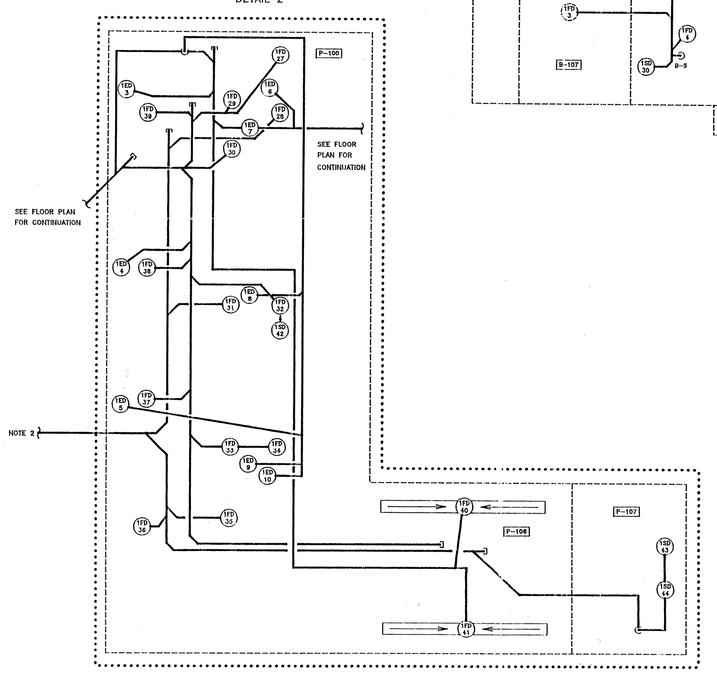
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-53	FIGURE 7	





DETAIL 1

DETAIL 2



NOTE 1 – PIPING MODIFICATIONS ARE PROPOSED BY ENGINEERING 3. LAYOUT SHOWN IS DEFINED BY EXISTING LANL "AS-BUILT" DRAWINGS, DYE VERIFICATION, AND ENG-3 MODIFICATION DRAWINGS.

NOTE 2 – SEE BASEMENT DRAWING (FIGURE 7) FOR CONTINUATION.

LEGEND:

- SANITARY DRAIN LINE
- ACID/RAD DRAIN LINE
- DRAIN
- DISCONNECTED/PLUGGED DRAIN
- DYE VERIFIED DRAIN
- (E) – EQUIPMENT DRAIN
- (F) – FLOOR DRAIN
- (S) – SINK DRAIN
- R – RINSE TANK
- RISER UP (LABELED)
- DISCONNECTED RISER UP
- RISER DOWN (LABELED)

DRAIN SYMBOLS
1CD – FIRST FLOOR CUP DRAIN
1ED – FIRST FLOOR EQUIPMENT DRAIN
1EW – FIRST FLOOR EYE WASH
1FD – FIRST FLOOR FLOOR DRAIN
1LV – FIRST FLOOR LAVATORY
1SD – FIRST FLOOR SINK DRAIN
1TL – FIRST FLOOR TOILET
1UR – FIRST FLOOR URINAL
1WF – FIRST FLOOR WATER FOUNTAIN

15289-E

SANTA FE ENGINEERING, LTD.

SIGMA BUILDING – SM-66
ENG-3 PROPOSED MODIFICATIONS
FIRST FLOOR DRAIN SCHEMATIC

DRAWN	MSC
DESIGN	MSC
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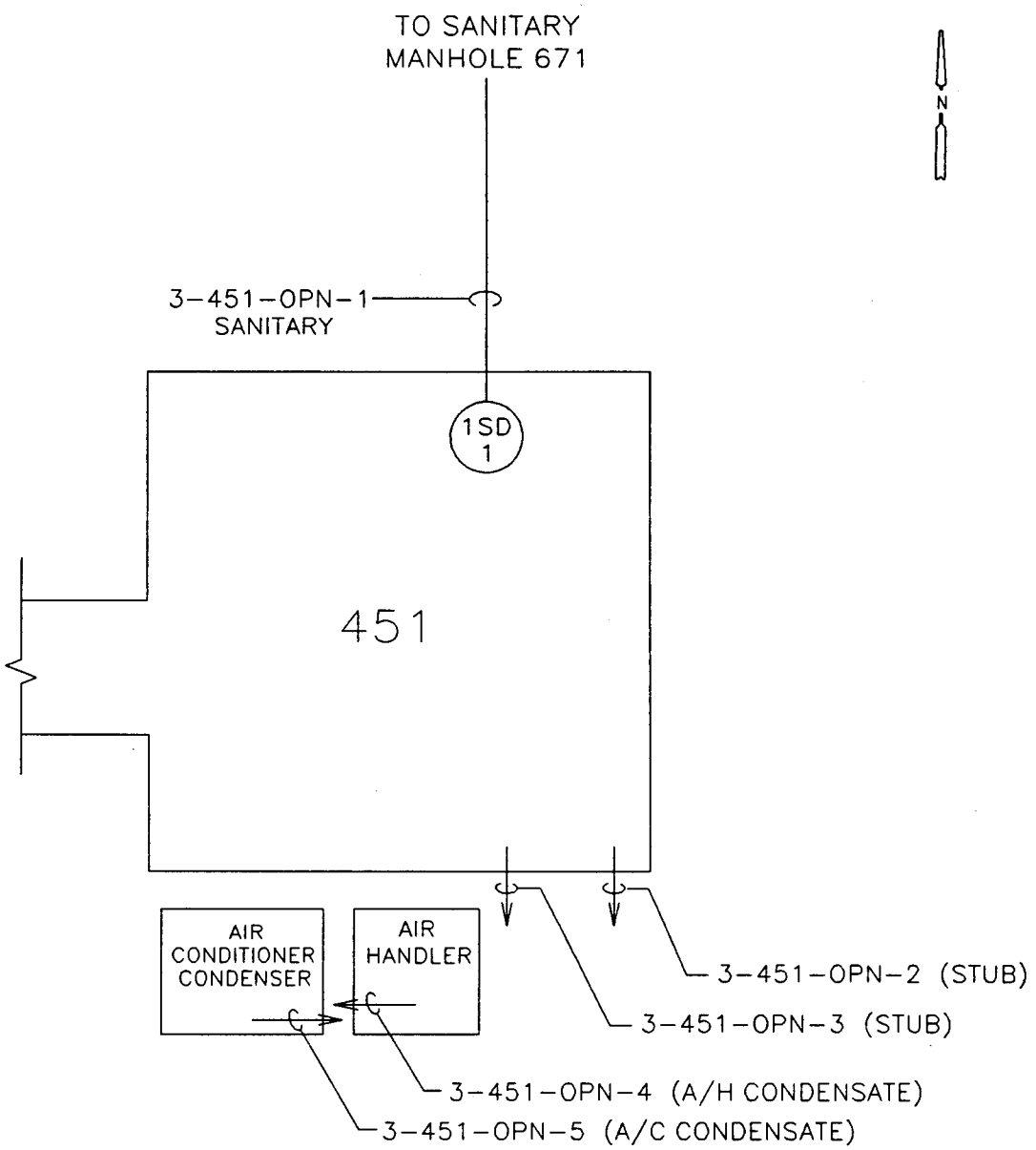
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-53	FIGURE 8	



SANTA FE ENGINEERING, LTD.		
SM-451 BUILDING DRAIN SCHEMATIC	DRAWN	MSC
	DESIGN	MSC
	CHECKED	PEB
	DATE	12-21-92
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 EM-8	11056-53	FIGURE 9