BUILDING 463

FINDINGS AND RECOMMENDATIONS

The survey performed from June 17, 1996 through August 21, 1996, in Building 463 located at Rockwell International Corporation, Rocketdyne Division at the Santa Susana Field Laboratory was conducted by ATC AHERA Certified Rebecca Mathes, Cary Rubin, Paul Sullivan, Jamie Tocci, David Bahng, and Richard Weaver assisted by Viviane Domian and Dien Nguyen.

Friable ACM (identified in Table 1 on the following page) was in fair condition. *Nonfriable* ACM (identified in Table 2) was in good condition. Hazard rating (see legend below) and recommended response action are specified for each ACM. Materials sampled in which no asbestos was detected are listed in Table 3.

LEGEND

SF = Square Feet
LF = Linear Feet
E = Each
SY = Square Yards
CF = Cubic Feet
Positive = >0.1% Asbestos Detected
Negative = No Asbestos Detected

HAZARD RATING

1 Good condition, low potential for damage
2 Good condition, moderate potential for damage
3 Good condition, high potential for significant damage
4 Fair condition (damaged), low potential for further damage
5 Fair condition (damaged), moderate potential for further damage
6 Fair condition (damaged), high potential for significant damage
7 Poor condition (significantly damaged)

TABLE 1 - FRIABLE ASBESTOS-CONTAINING MATERIALS

SAMPLE NOS.	FLOOR/ LEVEL	LOCATION	TYPE OF MATERIAL	ASBESTOS TYPE/%	ESTIMATED QUANTITY	HAZARD RATING
25	1st Flr	4" Pipe	Pipe Fitting Insulation 4" O.D.	Chrysotile 20%	80 LF	4

Remarks: *This material was found to be in fair condition.*

* No asbestos was detected in this sample; however, other samples from this homogeneous material contain asbestos, thus overriding the results of this sample. For explanation refer to section titled PROCEDURES AND METHODOLOGY, subsection Sampling and Laboratory Analysis Constraints.

TABLE 2 - NONFRIABLE ASBESTOS-CONTAINING MATERIALS

SAMPLE NOS.	FLOOR/ LEVEL	LOCATION	TYPE OF MATERIAL	ASBESTOS TYPE/%	ESTIMATED QUANTITY	HAZARD RATING
4, 5, 6, 7, 8	1st Flr	Process Control	Wallboard/Joint Compound	Chrysotile <1%	2,300 SF	1
Remarks:	*This material was found to be in good condition.*					
26, 27*, 28	Roof	Roof	Roof Composite Cut	Chrysotile 5%	6,300 SF	5
Remarks:	*This material was found to be in fair condition.*					
29 ,30, 31	Roof	Roof	Roofing Mastic	Chrysotile 5%	6,300 SF	5
Remarks:	*This material was found to be in fair condition.*					
32 ,33, 34	Roof	Roof	Roofing Cap Sheet	Chrysotile 30%	2,000 SF	5
Remarks:	*This material was found to be in fair condition.*					

* No asbestos was detected in this sample; however, other samples from this homogeneous material contain asbestos, thus overriding the results of this sample. For explanation refer to section titled PROCEDURES AND METHODOLOGY, subsection Sampling and Laboratory Analysis Constraints.

TABLE 3 - MATERIALS IN WHICH NO ASBESTOS WAS DETECTED

SAMPLE NOS.	FLOOR/ LEVEL	LOCATION	TYPE OF MATERIAL
1, 2, 3	1st Flr	Process Control Room	Acoustical Tile (12"x12") White with Fissures
9, 10, 11	1st Flr	Electrical Room	Mastic (Baseboard)
12, 13, 14, 15, 16, 17	1st Flr	Alcohol Tank #1 & #2	Thermal Insulation
18	1st Flr	Pipe HX-2	Pipe Run Insulation 12" O.D.
19, 20, 21, 22, 23	1st Flr	Pipes #102, #102A, #402, #406, #600	Pipe Run Insulation 6" O.D.
24	1st Flr	Select 4" Pipe	Pipe Run Insulation 4" O.D.

ASBESTOS SURVEY REPORT

ROCKWELL INTERNATIONAL CORPORATION - ROCKETDYNE DIVISION

SANTA SUSANA FIELD LABORATORY - BUILDING 463

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Condition	Air Erosion; Contact; Vibration
1	Acoustical Tile (12"x12") - White with Fissures	350 SF	1	Process Control Room	N	ND			
2	Acoustical Tile (12"x12") - White with Fissures	(R1)	1	Process Control Room	N	ND			
3	Acoustical Tile (12"x12") - White with Fissures	(R1)	1	Process Control Room	N	ND			
4	Wallboard/Joint Compound	2,300 SF	1	Process Control Room	P	< 1	Chrysotile	Nonfriable Good	Moderate Moderate Moderate
5	Wallboard/Joint Compound	(R4)	1	Process Control Room	P	< 1	Chrysotile	Nonfriable Good	Moderate Moderate Moderate
6	Wallboard/Joint Compound	(R4)	1	Process Control Room	P	< 1	Chrysotile	Nonfriable Good	Moderate Moderate Moderate
7	Wallboard/Joint Compound	(R4)	1	Process Control Room	P	< 1	Chrysotile	Nonfriable Good	Moderate Moderate Moderate
8	Wallboard/Joint Compound	(R4)	1	Process Control Room	P	< 1	Chrysotile	Nonfriable Good	Moderate Moderate Moderate
9	Mastic (Baseboard)	200 LF	1	Electrical Room	N	ND			
10	Mastic (Baseboard)	(R9)	1	Electrical Room	N	ND			

* = PLM Sample Analysis <1% Asbestos; Re-Analysis by Point Count ≤ 0.1% Asbestos ** = Sample Not Analyzed - Assumed Positive

(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Condition	Air Erosion; Contact; Vibration
11	Mastic (Baseboard)	(R9)	1	Electrical Room	N	ND			
12	Thermal Insulation	1,200 SF	1	Alcohol Tank #1	N	ND			
13	Thermal Insulation	(R12)	1	Alcohol Tank #1	N	ND			
14	Thermal Insulation	(R12)	1	Alcohol Tank #1	N	ND			
15	Thermal Insulation	1,200 SF	1	Alcohol Tank #2	N	ND			
16	Thermal Insulation	(R15)	1	Alcohol Tank #2	N	ND			
17	Thermal Insulation	(R15)	1	Alcohol Tank #2	N	ND			
18	Pipe Run Insulation - 12" O.D.	6 LF	1	Pipe HX-2	N	ND			
19	Pipe Run Insulation - 6" O.D.	800 LF	1	Pipe # 402	N	ND			
20	Pipe Run Insulation - 6" O.D.	(R19)	1	Pipe # 406	N	ND			

* = PLM Sample Analysis <1% Asbestos; Re-Analysis by Point Count ≤ 0.1% Asbestos ** = Sample Not Analyzed - Assumed Positive

(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Condition	Air Erosion; Contact; Vibration
21	Pipe Run Insulation - 6" O.D.	(R19)	1	Pipe # 600	N	ND			
22	Pipe Run Insulation - 6" O.D.	(R19)	1	Pipe # 102A	N	ND			
23	Pipe Run Insulation - 6" O.D.	(R19)	1	Pipe # 102	N	ND			
24	Pipe Fitting Insulation - 4" O.D.	80 SF	1	Pipe 4"	N	ND			
25	Pipe Fitting Insulation - 4" O.D.	(R24)	1	Pipe 4"	P	20	Chrysotile	Friable Fair	High Moderate Moderate
26	Roofing Composite (Roof Cut) - Gravel Roof	6,300 SF	Roof	Roof	P	5	Chrysotile	Nonfriable Fair	High Moderate Low
27	Roofing Composite (Roof Cut) - Gravel Roof	(R26)	Roof	Roof	N	ND			
28	Roofing Composite (Roof Cut) - Gravel Roof	(R26)	Roof	Roof	P	3	Chrysotile	Nonfriable Fair	High Moderate Low
29	Roofing Mastic	6,300 SF	Roof	Roof	P	5	Chrysotile	Nonfriable Fair	High Moderate Low
30	Roofing Mastic	(R29)	Roof	Roof	P	5	Chrysotile	Nonfriable Fair	High Moderate Low

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(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

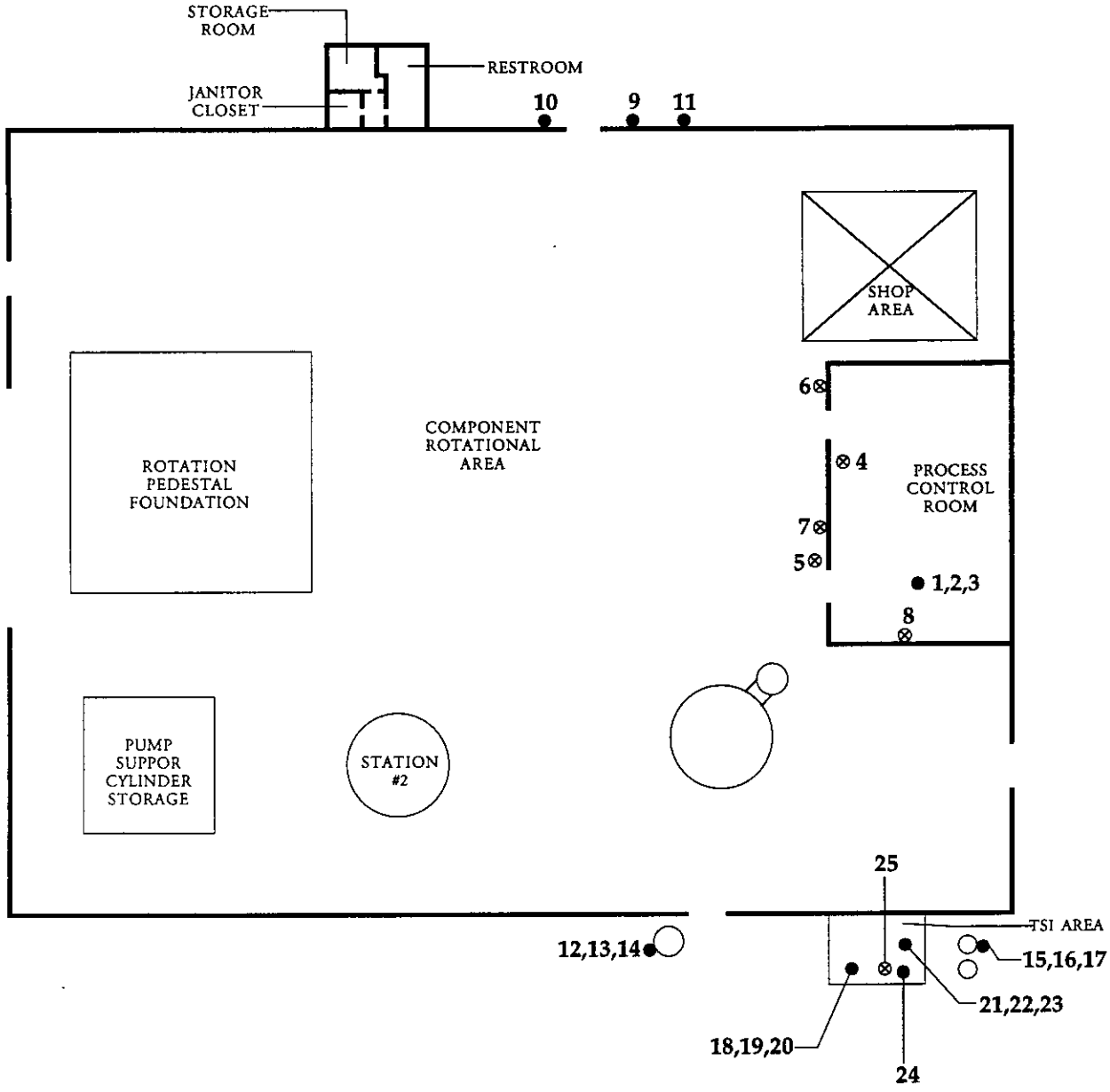
Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Condition	Air Erosion; Contact; Vibration
31	Roofing Mastic	(R29)	Roof	Roof	P	5	Chrysotile	Nonfriable Fair	High Moderate Low
32	Roofing Cap Sheet	2,000 SF	Roof	Roof	P	30	Chrysotile	Nonfriable Fair	High Moderate Low
33	Roofing Cap Sheet	(R32)	Roof	Roof	P	30	Chrysotile	Nonfriable Fair	High Moderate Low
34	Roofing Cap Sheet	(R32)	Roof	Roof	P	30	Chrysotile	Nonfriable Fair	High Moderate Low

* = PLM Sample Analysis <1% Asbestos; Re-Analysis by Point Count ≤ 0.1% Asbestos ** = Sample Not Analyzed - Assumed Positive
(R#) denotes that the estimated material quantity for the area has been included in referenced sample number.

PLANS DEPICTING

SAMPLE LOCATIONS



BUILDING 463
FIRST FLOOR PLAN

NOT TO SCALE

N

ASBESTOS SAMPLES LEGEND:

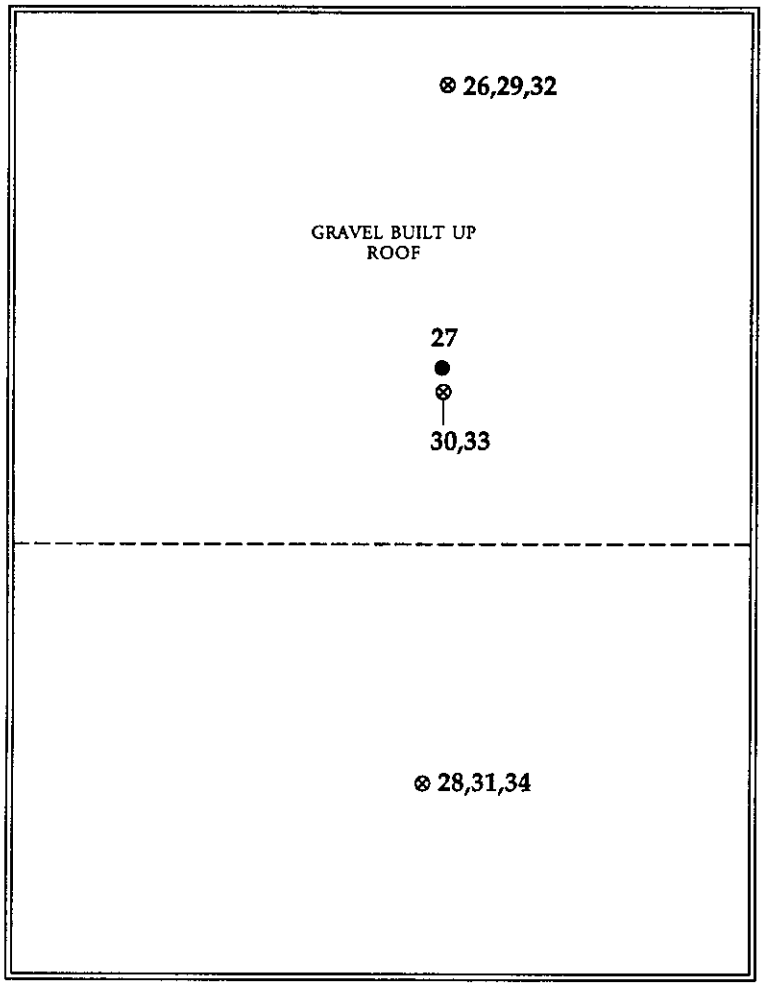
⊗ POSITIVE SAMPLE LOCATION

● NEGATIVE SAMPLE LOCATION

PROJECT NAME: ASBESTOS SURVEY REPORT
ROCKWELL INTERNATIONAL CORP.
ROCKETDYNE DIVISION
SANTA SUSANA, FIELD LABORATORY
SANTA SUSANA, CALIFORNIA

PROJECT NO. 08977.0087

ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns
50 East Foothill Blvd., Arcadia, California 91006



BUILDING 463
ROOF PLAN
NOT TO SCALE

N

ASBESTOS SAMPLES LEGEND:
- ⊗ POSITIVE SAMPLE LOCATION
- ● NEGATIVE SAMPLE LOCATION

PROJECT NAME: ASBESTOS SURVEY REPORT
ROCKWELL INTERNATIONAL CORP.
ROCKETDYNE DIVISION
SANTA SUSANA, FIELD LABORATORY
SANTA SUSANA, CALIFORNIA

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