

KTA Sieve Analysis Report Form

MATF 100R.2

Revision No. 2

Issued 3/12/96

KTA-Tator, Inc.

MATS Group Sieve Analysis

Sample Number _____
 Weight of Sample _____
 Sample Description _____

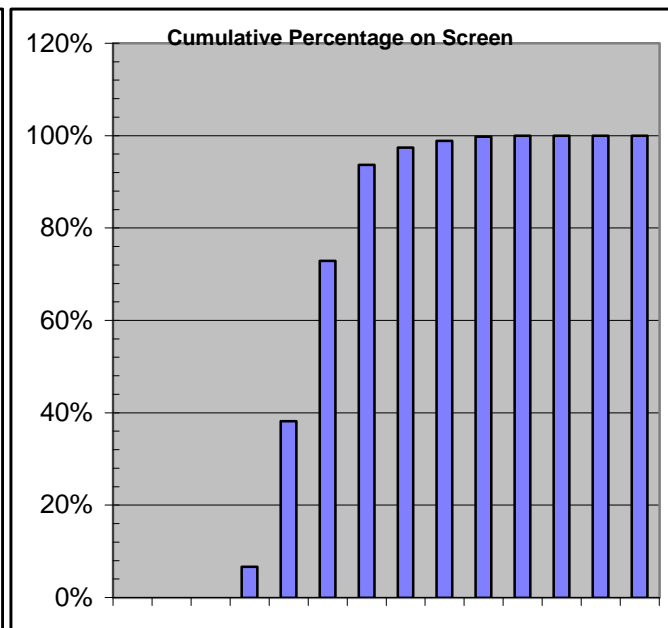
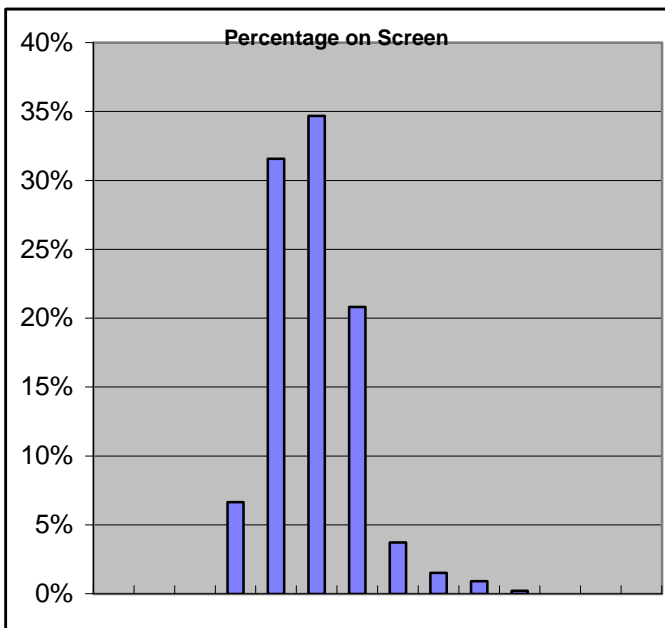
Date _____
 Technician _____
 Job _____

Sieve #	Cup and Grit	Cup	Grit	% of Total	Cum % of Total	S.O.S.** in mm	Particle Size Avg
10	12.6	12.6	0	0.00%	0.00%	2.000	0.00
12	12.9	12.9	0	0.00%	0.00%	1.700	0.00
16	13.5	13.5	0	0.00%	0.00%	1.180	0.00
20	19.3	12.7	6.6	6.63%	6.63%	0.850	5.61
30	44.2	12.8	31.4	31.56%	38.19%	0.600	18.84
40	47.2	12.7	34.5	34.67%	72.86%	0.425	14.66
50	33.6	12.9	20.7	20.80%	93.67%	0.300	6.21
60	16.5	12.8	3.7	3.72%	97.39%	0.250	0.93
70	14.4	12.9	1.5	1.51%	98.89%	0.210	0.32
100	13.8	12.9	0.9	0.90%	99.80%	0.150	0.14
140	13.1	12.9	0.2	0.20%	100.00%	0.110	0.02
200	12.4	12.4	0	0.00%	100.00%	0.075	0.00
270	12.7	12.7	0	0.00%	100.00%	0.053	0.00
Pan*	12.8	12.8	0	0.00%	100.00%	0.038	0.00
Total			99.5	100.00%		Sum =	46.72

* Approximated as a #400 Sieve

Average particle size = Sum / Total Wt. (in mm) = 0.47

** S.O.S. is Screen Opening Size



**KTA/SET ENVIRONMENTAL
MECHANICAL VENTILATION EVALUATION FORM**

Project: CDC/NIOSH

Equipment: _____

Air Measurement Instrument: _____

Evaluator: _____

Inspection Date: _____

KTA/SET No.: J95331

A. LOCATION DIAGRAM																																					
<p align="center">AIR VELOCITY MEASUREMENTS INSIDE BLAST ROOM</p> <table border="1" style="margin: 20px auto; border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td></tr> </table> <p align="center" style="margin-top: 20px;">Measurements are made at the center of the blast room, across the cross-sectional area perpendicular of the air flow.</p>	1	2	3	4	5	6	7	8	9	10	11	12	<p align="center">MEASUREMENT RESULTS</p> <table style="margin: 20px auto;"> <tr><td>1</td><td>_____</td><td>7</td><td>_____</td></tr> <tr><td>2</td><td>_____</td><td>8</td><td>_____</td></tr> <tr><td>3</td><td>_____</td><td>9</td><td>_____</td></tr> <tr><td>4</td><td>_____</td><td>10</td><td>_____</td></tr> <tr><td>5</td><td>_____</td><td>11</td><td>_____</td></tr> <tr><td>6</td><td>_____</td><td>12</td><td>_____</td></tr> </table> <p align="center" style="margin-top: 20px;">Average Air Velocity (AAV) = _____ FPM</p>	1	_____	7	_____	2	_____	8	_____	3	_____	9	_____	4	_____	10	_____	5	_____	11	_____	6	_____	12	_____
1	2	3	4																																		
5	6	7	8																																		
9	10	11	12																																		
1	_____	7	_____																																		
2	_____	8	_____																																		
3	_____	9	_____																																		
4	_____	10	_____																																		
5	_____	11	_____																																		
6	_____	12	_____																																		

KTA/SET ENVIRONMENTAL

115 Technology Drive
Pittsburgh, PA
412-788-1300

Project: CDC/NIOSH	Industrial Hygiene Report	Facility: KTA-TATOR, INC. Pittsburgh, PA
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Date:	Time:	Generic Abr. Type:
KTA/SET Project Number: J95331		Trade Name:
Abrasive Log Number:		Supplier:
Abrasive Mfg.:		Size:
Worker Properly Protected (✓)		Grade:

Ventilation Assessment Complete (✓)		Ventilation Form Complete (✓)			
Abrasive Sample Collection (✓)	NI	KT		NI	KT
Abrasive Sample as Received			Abrasive Sample Post Blast		
			Post Blast Steel Sample		

Cleaning Verification (✓)			Wipe Sampling (every fifth trial)		
Hopper		Walls	Surface	Sample No.	Area (in ²)
Hose		Ceiling	Wall		
Nozzle		Floor	Ceiling		
Reclaimer		Worker	Floor		
			Chain of Custody – Wipe – Complete (✓)		
Chain of Custody – Air – Complete (✓)			NIOSH Sample Submittal Form Complete (✓)		

Comments:

Technician	Project Supervisor
Print	Print
Signature	Signature
Date	Date

KTA/SET Industrial Hygiene Report Form

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AIR SAMPLING DATA

Location: Make-up Air Sample Bank

Pump ID	Hose No.	Sample No.	Media	Time On	Time Off	Elapsed Time	Volume
A	1						
A	2						
B	3						
B	4						
C	5						
D	6						
E	7						
F	8						

Location: Operator Area Sample Bank

Pump ID	Hose No.	Sample No.	Media	Time On	Time Off	Elapsed Time	Volume
G	14						
G	15						
H	16						
H	17						
I	18						
J	19						
K	20						
L	21						
	22						
	23						
P-24	24L						
P-25	25L						

Location: Exhaust Sample Bank

Pump ID	Hose No.	Sample No.	Media	Time On	Time Off	Elapsed Time	Volume
M	27						
M	28						
N	29						
N	30						
O	31						
P	32						
Q	33						
R	34						

Location: Operator Breathing Zone

Pump ID	Hose No.	Sample No.	Media	Time On	Time Off	Elapsed Time	Volume
S	40						
T	41						
U	42						

KTA Daily Inspection Report Form

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KTA-TATOR, Inc.
 Protective Coating Consultants
 115 Technology Drive
 Pittsburgh, PA
 412-788-1300

**NIOSH
 Project**

Facility:		Blast Cleaning Inspection Report			Time	Air T °F	RH %	DP °F	ST °F	Bar Pre	
Date:	IR #: J95331-01										
KTA/SET Job Number J95331											
Generic Abrasive					Trade Name						
Abrasive Log Number					Size Designation			Grade			
Abrasive Mfg.					Supplier						
Pre Blast Checkboxes:											
Abrasive Riffle <input type="checkbox"/>			100g Sieve Analysis ASTM C-136 <input type="checkbox"/>			Sample Envelope Microhardness ITL <input type="checkbox"/>					
1 lb Sample NIOSH <input type="checkbox"/>			300ml Sample ASTM D-4940 KTA Lab <input type="checkbox"/>			1 lb Sample KTA <input type="checkbox"/>					
Item No:	Surface Preparation		Surface Profile (mils)			Embedment					Steel Sample Area #
Panel No:	Spec	Act	Spec	Act.	Act.	Area 1	Area 2	Area 3	Area 4	Area 5	
1		SP-10		2-3							
2		SP-10		2-3							
3		SP-10		2-3							
4		SP-10		2-3							
5		SP-10		2-3							
6		SP-10		2-3							
7		SP-10		2-3							
8		SP-10		2-3							
9		SP-10		2-3							
Consumption and Cleaning Rate						Total Blast Time					
Initial Amount of Abrasive			Spec		Act.	Choke Valve Setting					
Abrasive left (hose and pot)						Metering Valve Setting					
Square Feet Cleaned											
S. P. QUALITY ITEMS					CAL. OK	Instrument			SERIAL NUMBER		
Hose/Nozzle Number Used			1	2	<input type="checkbox"/>	HYGROMETER					
Nozzle Orifice Gauge			Size: 3 4 5 6		<input type="checkbox"/>	SURFACE THERMOMETER					
ASTM D-4285 Blotter Test Results			P	F	<input type="checkbox"/>	TESTEX TAPE Used	XC	C	N/A		
Nozzle Pressure			psi		<input type="checkbox"/>	SPRING MICROMETER					
Hose Flushed and dried			Y	N	<input type="checkbox"/>	NOZZLE ORIFICE GAGE					
					<input type="checkbox"/>	BAROMETER					
Post Blast Checkboxes:											
Abrasive Riffle <input type="checkbox"/>			1 lb Sample NIOSH <input type="checkbox"/>			100g Sieve Analysis ASTM C-136 <input type="checkbox"/>					
Technician		Signature			Project Supervisor			Signature			
Date		Print			Date			Print			

KTA Tator Blast Cleaning Inspection Report Form						QPF-WDC345R.1				
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KTA-TATOR, Inc.
 Protective Coating Consultants
 115 Technology Drive
 Pittsburgh, PA
 412-788-1300

NIOSH
 Project

Facility: KTA Blast Room		Blast Cleaning Reclaim Report	Time	Air T °F	RH %	DP °F	ST °F	Bar Pre
Date:	IR #: J95331-01							
KTA/SET Job Number: J95331								
Generic Abrasive:			Trade Name:					
Abrasive Log Number:			Size Designation:			Grade:		
Abrasive Mfg.:			Supplier:					
Weight of Abrasive to be Reclaimed:								
Weight of Abrasive Reclaimed:								
Weight of Fine (black bucket):								
100 gram Sample Abrasive to be reclaimed for sieve analysis – Sample collected?:							Y	N
100 gram Sample Abrasive to be reclaimed for fines for ASTM C-136 – Sample collected?:							Y	N
100 gram Sample Abrasive to be reclaimed for abrasive ASTM C-136 – Sample collected?:							Y	N
Abrasive to be:		RE-RUN	<input type="checkbox"/>	BROKEDOWN			<input type="checkbox"/>	
If abrasive is to be brokedown, complete the following information:								
	Air T	RH	DP	ST	Bar			
Time	°F	%	°F	°F	Pre			
Initial Amount of Abrasive:		Actual:		Choke Valve Setting:				
Abrasive left (hose and pot):		Total Blast Time:		Metering Valve Setting:				
S. P. QUALITY ITEMS			CAL. OK	Instrument			SERIAL NUMBER	
Hose/Nozzle Number Used:		1 2	<input type="checkbox"/>	HYGROMETER			118124	
Nozzle Orifice Gauge:		Size: 3 4 5 6	<input type="checkbox"/>	SURFACE THERMOMETER			102678	
ASTM D-4285 Blotter Test Results:		P F	<input type="checkbox"/>	BAROMETER			118125	
Nozzle Pressure:		psi	<input type="checkbox"/>	NOZZLE ORIFICE GAGE			K41052	
Hose flushed and dried:		Y N						
Technician	Signature		Project Supervisor		Signature			
Date	Print		Date		Print			

CHAIN OF CUSTODY RECORD - AIR SAMPLING FORM SHEET ____ OF ____

1. PROJECT NUMBER: J95331	2. DATE:		
3. PROJECT NAME/LOCATION: NIOSH/CDC - PITTSBURGH, PA			
4. NAME OF SAMPLER	Print	Signature	
	Name	Company KTA/SET Environmental	
	City Pittsburgh	State PA	Zip Code 15275

6. SAMPLE NUMBERS					

7. SAMPLES RELINQUISHED BY			8. SAMPLES RECEIVED BY		
NAME	DATE	TIME (note am/pm)	NAME	DATE	TIME (note am/pm)

KTA/SET ENVIRONMENTAL

115 Technology Drive
Pittsburgh, PA
412-788-1300

Project: CDC/NIOSH		Pump Calibration Report	Facility: KTA-TATOR, INC. Pittsburgh, PA		
Date:	Time:	Generic Abr. Type:			
KTA/SET Project Number: J95331		Trade Name:			
Abrasive Log Number:		Supplier:			
Abrasive Mfg.:		Size:			
		Grade:			
Calibration Equipment:					
Gilibrator Precision Flow Bubble Meter		SN: 001479-B			
Gilibrator Standard Flow Cell		SN: 19825-S			
Gilibrator High Flow Cell		SN: 19747-H			
Calibration Conducted By:		(print)		(signature)	
Comments:					

Location: Make-up Air Sample Bank									
Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
A	1,2	PVC (Total Dust)	1.0						
B	3,4	PVC (Total Dust)	1.0						
C	5	0.8 µm MCE	2.0						
D	6	PVC (Resp. Dust)	1.7						
E	7	PVC (Total R.A.)	4.0						
F	8	PVC (Resp. R.A.)	1.7						
	9	Open							
	10	Open							
	11	Open							
	12	Open							
N/A	13	Calibration	N/A						

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Location: Operator Air Sample Bank

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
G	14,15	PVC (Total Dust)	1.0						
H	16,17	PVC (Total Dust)	1.0						
I	18	0.8 µm MCE	2.0						
J	19	PVC (Resp.)	1.7						
K	20	PVC (Total R.A.)	4.0						
L	21	PVC (Resp. R.A.)	1.7						
	22	PVC (Background)							
	23	PVC (Background)							
P-24	24R	PVC (Resp. R.A.)	72.0						
P-25	25L	PVC (Resp. R.A.)	75.0						
N/A	13	Calibration	N/A						

Location: Exhaust Sample Bank

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
M	27,28	PVC (Total Dust)	1.0						
N	29,30	PVC (Total Dust)	1.0						
O	31	0.8 µm MCE	2.0						
P	32	PVC (Resp.)	1.7						
Q	33	PVC (Total R.A.)	4.0						
R	34	PVC (Resp. R.A.)	1.7						
	35	Open							
	36	Open							
	37	Open							
	38	Open							
N/A	39	Calibration	N/A						

Location: Make-up Air Sample Bank

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
S	40	0.8 µm MCE	2.0						
T	41	PVC (Total Dust)	1.0						
U	42	PVC (Resp. Dust)	1.7						

KTA/SET Pump Calibration Report Form

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KTA/SET ENVIRONMENTAL

115 Technology Drive
Pittsburgh, PA
412-788-1300

Project: CDC/NIOSH		Pump Flow Verification Report	Facility: KTA-TATOR, INC. Pittsburgh, PA		
Date:	Time:	Generic Abr. Type:			
KTA/SET Project Number: J95331		Trade Name:			
Abrasive Log Number:		Supplier:			
Abrasive Mfg.:		Size:			
		Grade:			
Verification Equipment:					
Gilibrator Precision Flow Bubble Meter		SN: 001479-B			
Gilibrator Standard Flow Cell		SN: 19825-S			
Gilibrator High Flow Cell		SN: 19747-H			
Calibration Conducted By:		(print)		(signature)	
Comments:					

Location: Make-up Air Sample Bank									
Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
A	1,2	PVC (Total Dust)	1.0						
B	3,4	PVC (Total Dust)	1.0						
C	5	0.8 µm MCE	2.0						
D	6	PVC (Resp. Dust)	1.7						
E	7	PVC (Total R.A.)	4.0						
F	8	PVC (Resp. R.A.)	1.7						
	9	Open							
	10	Open							
	11	Open							
	12	Open							
N/A	13	Calibration	N/A						

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Location: Operator Area Sample Bank

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
G	14,15	PVC (Total Dust)	1.0						
H	16,17	PVC (Total Dust)	1.0						
I	18	0.8 µm MCE	2.0						
J	19	PVC (Resp.)	1.7						
K	20	PVC (Total R.A.)	4.0						
L	21	PVC (Resp. R.A.)	1.7						
	22	PVC (Background)							
	23	PVC (Background)							
P-24	24R	PVC (Resp. R.A.)	72.0						
P-25	25L	PVC (Resp. R.A.)	75.0						
N/A	26	Calibration	N/A						

Location: Exhaust Sample Bank

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
M	27,28	PVC (Total Dust)	1.0						
N	29,30	PVC (Total Dust)	1.0						
O	31	0.8 µm MCE	2.0						
P	32	PVC (Resp.)	1.7						
Q	33	PVC (Total R.A.)	4.0						
R	34	PVC (Resp. R.A.)	1.7						
	35	Open							
	36	Open							
	37	Open							
	38	Open							
N/A	39	Calibration	N/A						

Location: Operator Breathing Zone

Pump ID	Hose No.	Media	Target (l/min)	Actual Flow (l/min)					Ave Flow (l/min)
				1	2	3	4	5	
S	40	0.8 µm MCE	2.0						
T	41	PVC (Total Dust)	1.0						
U	42	PVC (Resp. Dust)	1.7						

KTA/SET Pump Flow Verification Report Form

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NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
Division of Respiratory Disease Studies
1095 Willowdale Road
Morgantown, WV 26505-2888
(304) 285-5754

SAMPLE SUBMITTAL FORM

NIOSH Investigator: Mark F. Greskevitch
Sampling Site: KTA/SET ENVIRONMENTAL, INC. ENCLOSED
BLASTING BOOTH in PITTSBURGH, PA
Industrial Process: SIC 1700 CONSTRUCTION
Collection Date: 06-07-96
Shipment Date: 06-27-96

Date: July 1, 1996
Project No: DRDS 96-057
Air Temp (°C): N/A

Sequence Number	Analysis Requested	Sample Characteristics (Type*, Manuf., Lot No.)
8394	Elemental: ICP-AES (7300) and Graphite furnace method for 4 elements listed in comments	Airborne samples for elemental analysis, see attached MSDS sheets of abrasive used and spec sheets for steel blasted upon

* Specify: Solid Sorbent Tube (eg. Charcoal), Filter Type, Impinger Solution, Bulk Sample, Blood, Urine, Tissue, Other

Laboratory Sample Number	Field Sample Number	Air Vol. (liters)