

2006 040602001



Environmental
Restoration
Program



Miamisburg Closure Project CLOSEOUT REPORT Building EG-2

(Demolition)

Final
September 2003

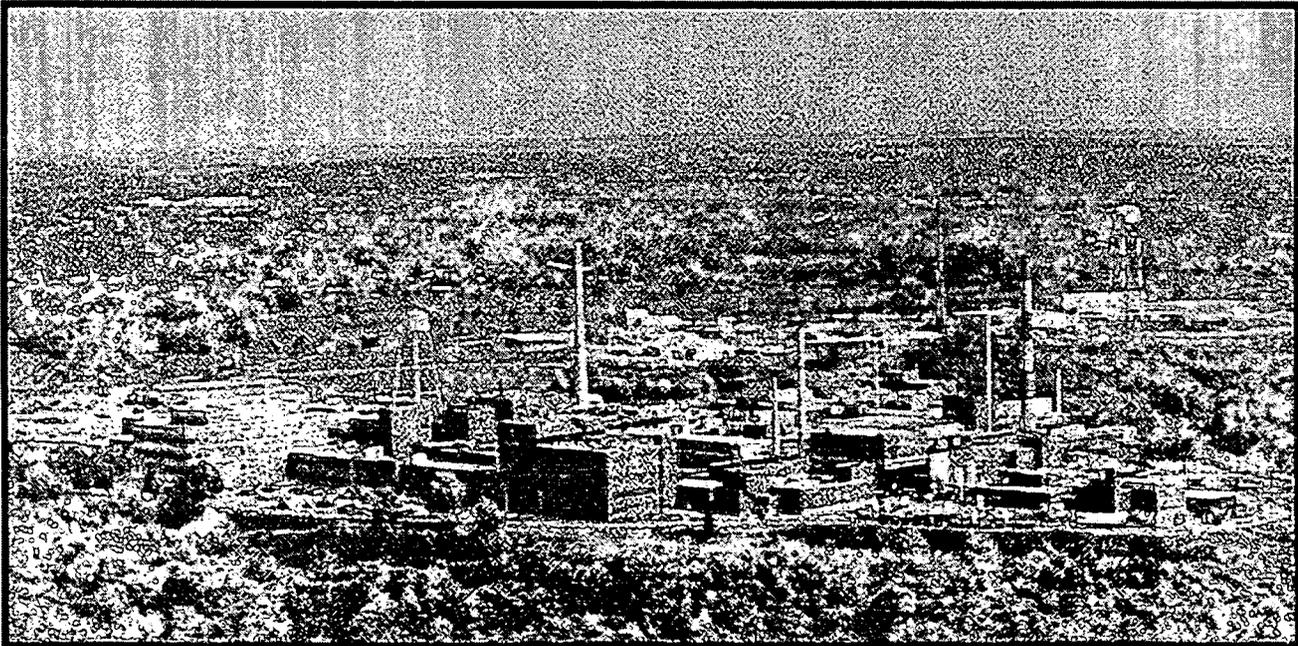


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1.0 Purpose

This is the final report documenting completion of the removal of Electrical Generator 2 (EG-2) located on the SMPP Hill of the DOE Mound Site as shown in Figures 1 and 2 (Appendix A). The scope of work relating to this building is considered complete.

2.0 Background

2.1 Building EG-2

EG-2 was a single-story, 240 square-foot rectangular building with metal sides and roof (Figure 3). It was designed, constructed, and used to house an emergency generator to provide emergency power to the SMPP Hill. EG-2 was located northwest of Building 38 (Figure 1). The building and generator were sold to the public and removed from the site by the purchaser.

A 4,000 gallon diesel fuel underground storage tank associated with EG-2 was abandoned in place in 1998. The tank and the EG-2 foundation will be removed by the Environmental Restoration (ER) project as part of the Building 38 soils Removal Action.

2.2 Potential Release Sites (PRSs)

As a result of the investigations and documentation accomplished to comply with the CERCLA (Superfund) cleanup process via the Federal Facilities Agreement (FFA)/Department of Energy (DOE) Environmental Restoration (ER) Program, DOE and the site contractor tabulated all the PRSs identified under the various regulatory programs in effect at the site. Of these 440 PRSs, seven are near Building EG-2 (Table 1, Figure 2); none of the PRSs are directly associated with Building EG-2 or its operation.

Table 1 - PRSs in Proximity to Building EG2

PRS	CERCLA or Bldg. Related	Binning Status	Comments
77*	CERCLA	Removal Action (RA)	Warehouse 10 (structure removed).
273*	CERCLA	RA	Area 12, Th-contaminated soil from Area 1
292*	CERCLA	RA	SM Building Alpha Wastewater Sumps (structures removed).
294**	CERCLA	RA	WS Building Solidification Unit
295**	CERCLA	RA	Building 38 Solid Reactive Waste Compactors
299*	CERCLA	RA	Building 38 Diesel Fuel Storage Tank
305**	CERCLA	RA	Building 38 (SM) Stack

* PRSs 77, 273, 292, and 299 will be handled under the Building 38 Action Memorandum (AM). Closure of these PRSs will be handled under the Building 38 Soils On Scene Coordinator (OSC) Report.

** PRSs 294, 295, and 305 were demolished under the Building 38 AM. Closure of these PRSs will be handled under the Building 38 Superstructure OSC Report.

3.0 Actions Taken

The EG-2 building and the generator it housed were considered private property, and therefore did not require a Building Data Package (BDP) for removal. The building and generator were radiologically surveyed and approved for unrestricted release offsite (Appendix B). The building and generator were sold to the public and the purchaser removed the items from the site on August 14, 2003. Photographs taken before and after removal are provided in Figure 3.

4.0 Problems Encountered

EG-2 was removed from the Mound Site by the purchaser and no problems were documented.

5.0 Resources Committed

5.1 Personnel Organization

Table 2 lists the personnel organization for the removal.

Table 2 - Personnel Organization for the Removal

Agency or Party Involved	Contact	Description of Participation
US EPA (SR-6J) 77 W. Jackson Chicago, IL 60604 312-886-7058	David Seely	Federal agency responsible for MCP oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911 937-285-6468	Brian Nickel	State agency responsible for MCP oversight.
DOE/ MCP P.O. Box 66 500 Capstone Circle Miamisburg, OH 45342 937-847-8350, ext 304	Frank Schmaltz	DOE/ MCP Project Manager responsible for project oversight and success.
CH2M Hill Mound, Inc. SMPP-TFV Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45342 937-865-4169	Kurt Kehler	Provided the DOE/ MCP Project Manager with technical assistance, administrative support, sampling, decontamination, photo and site documentation, site safety, and report preparation.
CH2M Hill Mound, Inc. General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45342 937-865-4278	Max Edington	Provided the equipment necessary for the demolition.

5.2 Demolition Cost

Under the Mound site contract, CH2M Hill Mound, Inc. has elected to cluster financial data for multiple buildings together. As a result, costs for individual building demolitions are not available. For Building EG-2, the cluster also includes Building 38 and the Building 38 stack. The total cost for the cluster will be reported in the OSC Report for Building 38 and its stack.

APPENDIX A

Figures

Figure 1 - Location of Building EG-2



Figure 3 - Building Photos



Bldg. EG-2 Prior to Demolition



Bldg. EG-2 After Demolition

Site will be restored after Building 38 Removal Action is complete.

APPENDIX B

Radiological Information

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) <u>BLDG. 30 / WEST YARD</u>	SURVEY NO. <u>03-38-0895</u>
PURPOSE: <u>Survey for Unrestricted Release of Material.</u>	RWP NO. <u>N/A</u>
	DATE: <u>5-23-03</u>
	TIME: <u>1000</u>

MAP / DRAWING

All accessible surfaces direct frisked and no detectable activity found above table 2-2 limits, except when otherwise noted.
See attached forms for swipe survey results
All items surveyed, in accordance with MD-80036, op 400.

COPY

Item #	Item Description	Smear #'(s)	Swab #'(s)	RPOC Evaluation Req'd?		Name of Individual Receiving the Item
				YES	NO	
1	GENERATOR 1	1-5	11	✓		Nyken (PAVELKA)
2	GENERATOR 2	6-10	11	✓		Nyken (PAVELKA)
3	GENERATOR 3	11-15	11	✓		Nyken (PAVELKA)
			11			
			11			
			11			
			11			
			11			
			11			

RPOC Evaluation and Approval Required When:

- A potentially contaminated item has inaccessible surfaces, as determined by the RCT performing the survey
- An Evaluation is requested by the RCT

IF an Evaluation is Required THEN the RPOC shall Evaluate the item using the following as a basis for the evaluation:

- A history of the item should be reviewed
- The actual release survey shall be reviewed
- Determination of the radiological conditions in the area the item has been or stored shall be reviewed
- Remove oil, dirt, and other materials that might attenuate the surface activity
- Use of sensitive detectors such as NaI (TI) should be considered to detect previously undetectable internal contamination levels.

RPOC Release Authorization:

All items requiring an Evaluation for Unrestricted Release have been Evaluated and found to successfully meet the release limits set in MD-80043, Op 400.

Evaluator/Authorizer (sign): [Signature]

Date: 5/20/03

LEGEND:

= mrem/hr (γ) whole body

#E = mrem/hr ($\beta + \gamma$) extremity on contact

K = factor of 1000

----- = radiological boundary



= mrem/hr neutron



= swipe number



= air sample number



or β = direct contamination measurement in $\text{dpm}/100\text{ cm}^2$

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
L3030	5819	2-24-04
L2360	5764/5839	4-17-04

Completed by: (Signature) [Signature]

HPD

Date: 5-23-03

Completed by: (Print Name) LASON VALTOS

Counted by: (Signature) [Signature]

HPD

Date: 5-23-03

Completed by: (Print Name) LASON VALTOS

Reviewed/Approved by: (Signature) [Signature]

HPD

Date: 5/20/03

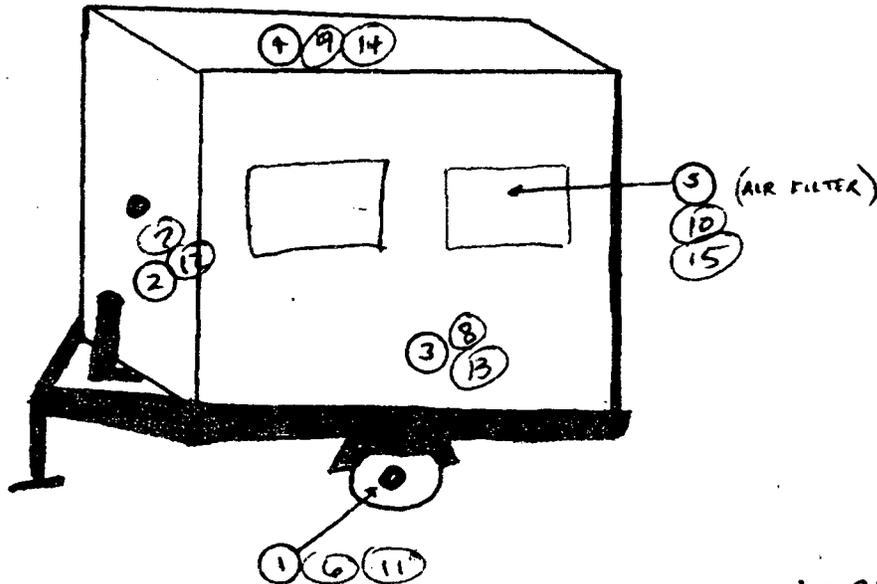
Reviewed/Approved by: (Print Name) [Signature]

RADIOLOGICAL SURVEY DATA SHEET

NV 5-23-03
Page 1 of Page 2 of 3

LOCATION: (BLDG./AREA/ROOM) BLDG. 3B / WEST YARD	SURVEY NO. 03-38-0895
PURPOSE: EXIT SURVEY OF GENERATORS (3 EA.) - NOT USED IN BLDG. ON CA'S.	RWP NO. N/A
	DATE: 5-23-03
	TIME: 1000

MAP / DRAWING



VARIOUS INTEGRATED COUNTS PERFORMED.
ALL WERE < D.L. OR = BKG.

L2360
BKG. → 3.0/α 91.4/β
D.L. → 2.2/α 20/β

LEGEND: # = mrem/hr (γ) whole body
#E = mrem/hr (β+γ+γ) extremity on contact
K = factor of 1000
- - - - = radiological boundary

△ # = mrem/hr neutron ⊙ # = swipe number
□ # = air sample number ⊙ #/α or #β = direct contamination measurement in rcm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
L3030	5819	2-24-04
L2360	574/5839	4-17-04
	N	
	↑	

Completed by: (Signature) <i>[Signature]</i>	HPD	Date: 5-23-03
Completed by: (Print Name) JASON VALTOS		
Checked by: (Signature) <i>[Signature]</i>	HPD	Date: 5-23-03
Checked by: (Print Name) JASON VALTOS		
Reviewed/Approved by: (Signature) <i>[Signature]</i>	HPD	Date:
Reviewed/Approved by: (Print Name) See page 2		

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RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) <u>Bldg #38 1/2 Stack Lead-out Area</u>	SURVEY NO. <u>07-38-1134</u>
PURPOSE: Survey for Unrestricted Release of Material.	RWP NO. <u>N/A</u>
	DATE: <u>07-21-03</u>
	TIME: <u>18:00</u>

MAP / DRAWING

All accessible surfaces direct frisked and no detectable activity found above table 2-2 limits, except when otherwise noted.
 See attached forms for swipe survey results
 All items surveyed, in accordance with MD-80036, op 400.

COPY

Item #	Item Description	Smear #'(s)	Swab #'(s)	RPOC Evaluation Req'd?		Name of Individual Receiving the Item
				YES	NO	
1	<u>Electric Generator</u>	<u>1-10</u>	<u>N/A</u>	<u>X</u>		<u>ICC</u>
<div style="position: relative; width: 100%; height: 100%;"> A N </div>						

RPOC Evaluation and Approval Required When:

- A potentially contaminated item has inaccessible surfaces, as determined by the RCT performing the survey
- An Evaluation is requested by the RCT

IF an Evaluation is Required THEN the RPOC shall Evaluate the item using the following as a basis for the evaluation:

- A history of the item should be reviewed
- The actual release survey shall be reviewed
- Determination of the radiological conditions in the area the item has been or stored shall be reviewed
- Remove oil, dirt, and other materials that might attenuate the surface activity
- Use of sensitive detectors such as NaI (TI) should be considered to detect previously undetectable internal contamination levels.

RPOC Release Authorization:

All items requiring an Evaluation for Unrestricted Release have been Evaluated and found to successfully meet the release limits set in MD-80043, Op 400.

Evaluator/Authorizer (sign):

R.M. Coblenz

Date:

7/22/03

LEGEND:

= mrem/hr (γ) whole body

#E = mrem/hr ($\beta + \gamma$) extremity on contact

K = factor of 1000

----- = radiological boundary



= mrem/hr neutron



= swipe number



= air sample number



or β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

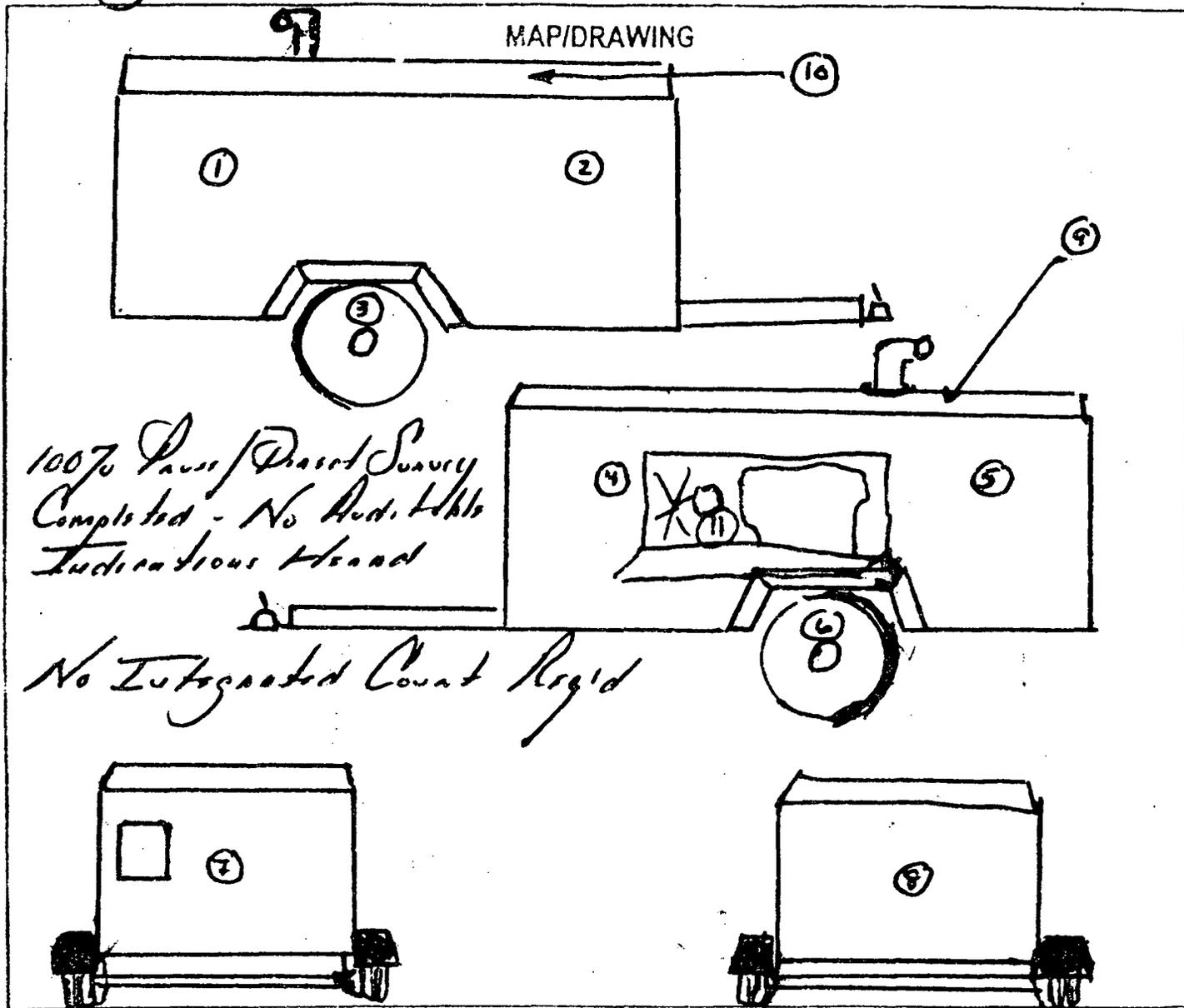
Instrument	Serial Number	Cal. Due Date
<u>Ludlum 3030</u>	<u>5819</u>	<u>02-24-04</u>
<u>Ludlum 3030</u>	<u>5821</u>	<u>04-10-04</u>
<u>Ludlum 2360</u>	<u>5779/5727</u>	<u>03-17-04</u>
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Completed by: (Signature) <u>[Signature]</u>	RPS	Date: <u>07-21-03</u>
Completed by: (Print Name) <u>Joseph H. Krasner</u>		
Counted by: (Signature) <u>[Signature]</u>		Date: <u>07-21-03</u>
Counted by: (Print Name) <u>Joseph H. Krasner</u>		
Reviewed/Approved by: (Signature) <u>R.M. Coblenz</u>		Date: <u>7-22-03</u>
Reviewed/Approved by: (Print Name) <u>R.M. Coblenz</u>		

RADIOLOGICAL SURVEY DATA SHEET

B 2 of 3

LOCATION: (BLDG./AREA/ROOM)	<i>Bldg #38 - 1/2 Stack Lead-out</i>	SURVEY NO.	<i>03-38-1134</i>
PURPOSE:	<i>Survey for Equipment Release Ingersoll Electric Generator</i>	RWP NO.	<i>N/A</i>
		DATE:	<i>07-21-03</i>
		TIME:	<i>08:00</i>



LEGEND: # = mrem/hr (γ) whole body
#E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact

= mrem/hr neutron
[] = air sample number

= swipe number
#/c or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
<i>Luclux 3030</i>	<i>5819</i>	<i>02-24-04</i>
<i>Luclux 3030</i>	<i>5821</i>	<i>04-10-04</i>
<i>Luclux 2360</i>	<i>5779/5777</i>	<i>03-17-04</i>
<i>N/A</i>	<i>N/A</i>	<i>N/A</i>

Completed by: (Signature)	HP #	Date:
<i>[Signature]</i>		<i>07-21-03</i>
Completed by: (Print Name)	HP #	Date:
<i>[Signature]</i>		<i>07-21-03</i>
Counted by: (Signature)	HP #	Date:
<i>[Signature]</i>		<i>07-21-03</i>
Counted by: (Print Name)	HP #	Date:
<i>[Signature]</i>		
Reviewed/Approved by: (Signature)	HP #	Date:
<i>[Signature]</i>		
Reviewed/Approved by: (Print Name)		
<i>See page 1</i>		

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Sample #	Swipes (dpm/100cm ²)			Comments
	Beta	Alpha	Tritium	
1	48	2	N/A	On Map Area
2	83	0		Lab Area
3	108	0		
4	90	0		
5	100	2		
6	5	0		
7	88	0		
8	32	2		
9	91	0		
10	34	0		
11	76	0	NA	FILTER HOUSING
N/A				

Removable Contamination				
Sample #	Swipes (dpm/100cm ²)			Comments
	Beta	Alpha	Tritium	
N/A				

COMMENTS: *Swipes on Air Filter Unit - Housing, Tytrac. No Radialab indicated, head, Integrated Count Not Reg'd.*

- NOTES:
- See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
 - To request RO Count Room analysis for beta, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
 - Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-6620A (4-98)

REMOVED FILTER HOUSING & SWIPE TAKEN ON FILTER B7 of 7

