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**Environmental  
Restoration  
Program**

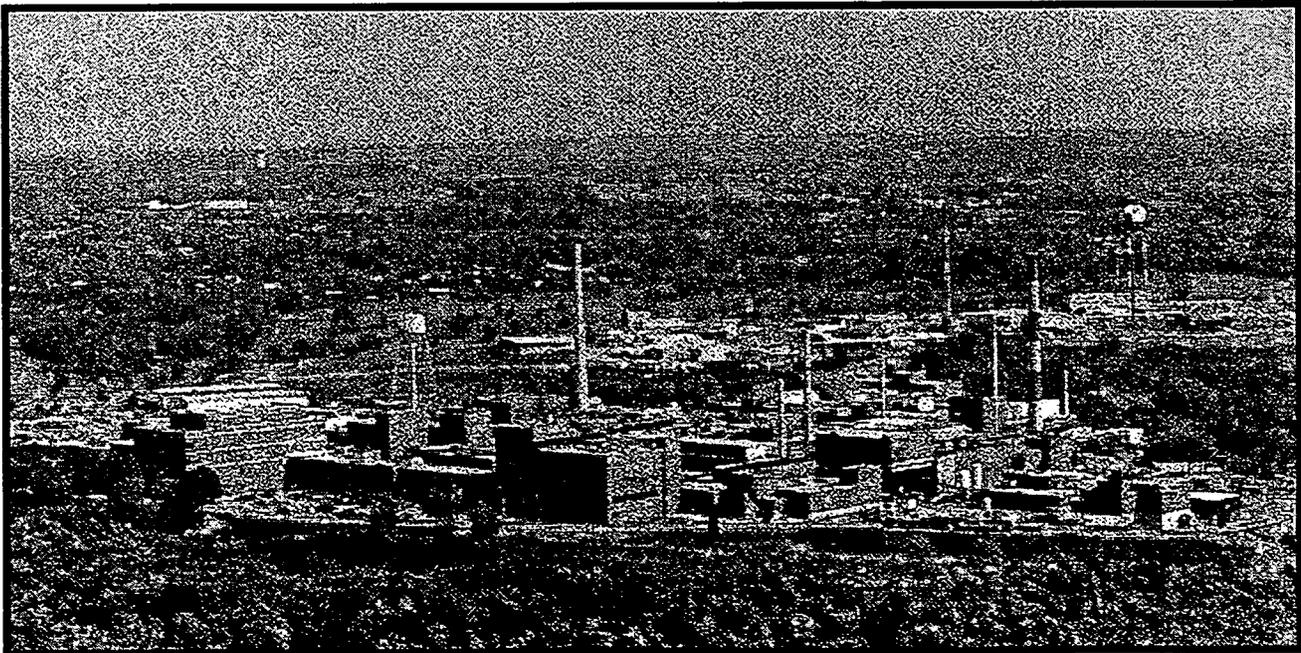


# **Miamisburg Closure Project CLOSEOUT REPORT**

## **Building EG-2**

(Demolition)

Final (Revision 1)  
October 2003



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## **1.0 Purpose**

This is the final report documenting completion of the removal of Electrical Generator 2 (EG-2) and demolition of Building EG-2 located on the Special Metallurgical/Plutonium Processing (SM/PP) 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**

Building 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 SM/PP Hill. EG-2 was located northwest of Building 38 (Figure 1). The EG-2 generator was sold to the public and removed from the site by the purchaser. Building EG-2 was demolished and disposed of with the Building 38 demolition debris.

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 Soil 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**

<b>PRS</b>	<b>CERCLA or Bldg. Related</b>	<b>Binning Status</b>	<b>Comments</b>
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 Soil 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 Structure OSC Report.

### **3.0 Actions Taken**

The EG-2 building and the generator it housed were considered personal property, and therefore did not require a Building Data Package (BDP) for removal. The generator was radiologically surveyed, and approved for unrestricted release offsite (Appendix B). The generator was sold to the public and the purchaser removed it from the site on August 14, 2003. The EG-2 superstructure was demolished with the Building 38 demolition, and the debris disposed of as radiological low-level waste. Photographs taken before and after demolition are provided in Figure 3.

### **4.0 Problems Encountered**

The EG-2 generator was removed from the Mound Site by the purchaser and the EG-2 building was demolished with the Building 38 demolition; 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**

<b>Agency or Party Involved</b>	<b>Contact</b>	<b>Description of Participation</b>
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.

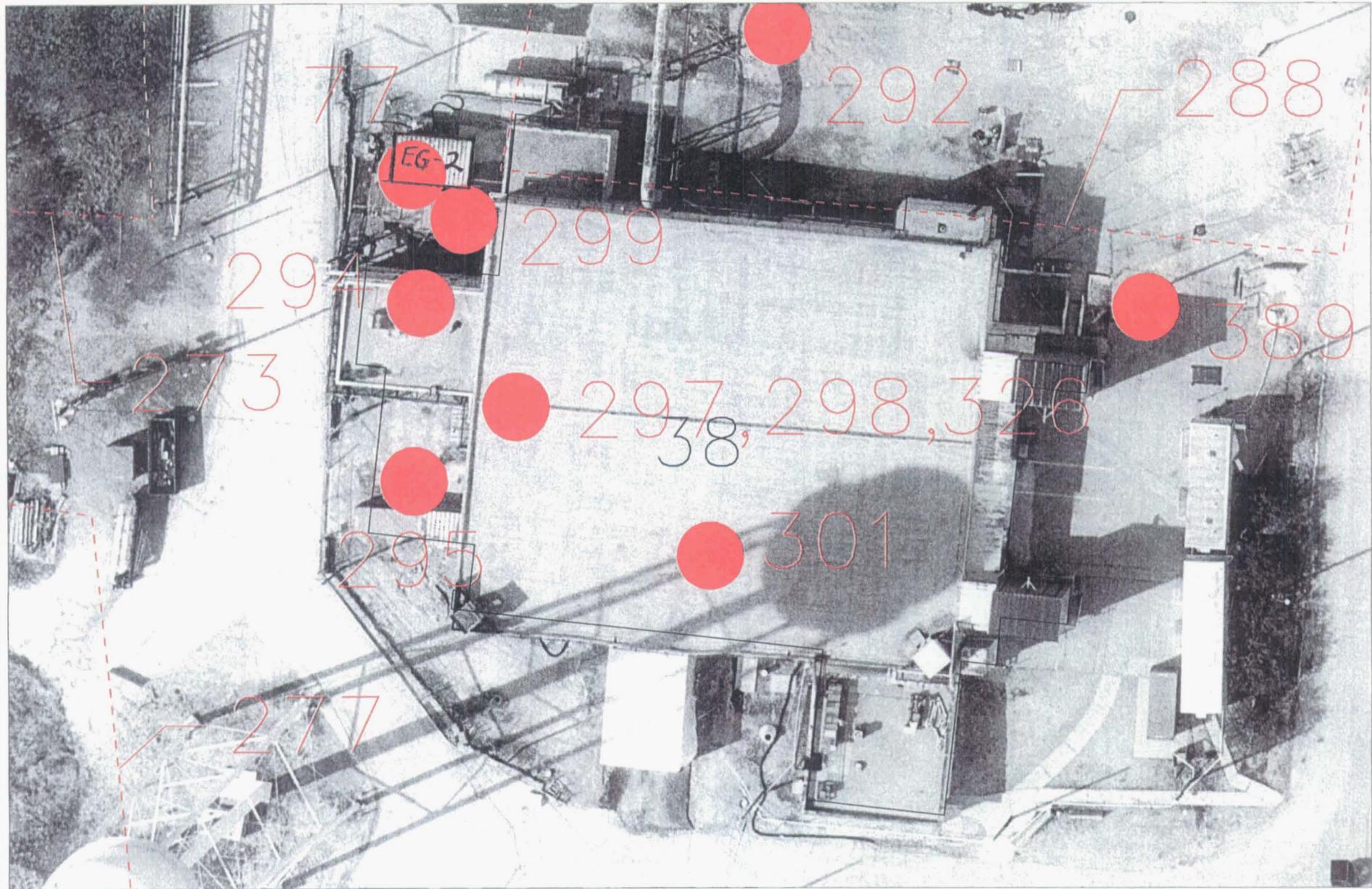
**5.2 Demolition Cost**

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 Building 38 Structure OSC Report.

**APPENDIX A**

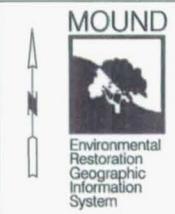
**Figures**





A 2 of 3

- PRS Point
- PRS Area
- ~ PRS Line



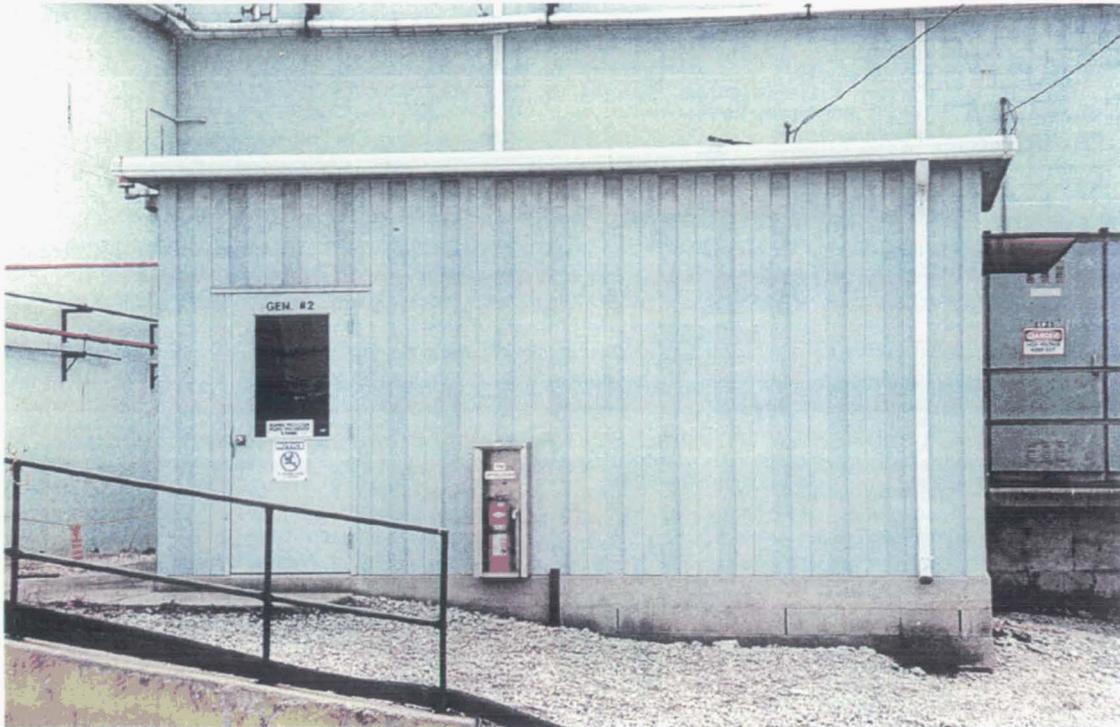
SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
ISSUE																						
SHEET	1	2	3	4	5	6																
ISSUE	*																					
PART CLASSIFICATION																						
<b>Figure 2</b> <b>Building EG-2</b> <b>and Vicinity</b>																						
DRAWING CLASSIFICATION												SIZE		DRAWING NUMBER				JOB NUMBER				
<b>UNCLASSIFIED</b>														<b>vicinity.dgn</b>								
DWG TYPE		STE		PRWG		ER-GIS		CAZEC		SCALE		SHEET 1 OF 1										
STATUS MD-REL-08/29/03												ORIGIN		MSTATION / J								

08/29/03					SSF				
ISS	DATE	REVISION	BY	CHKR	ENC	LP/EC	APVD	M	
		1							

2

3

### 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**

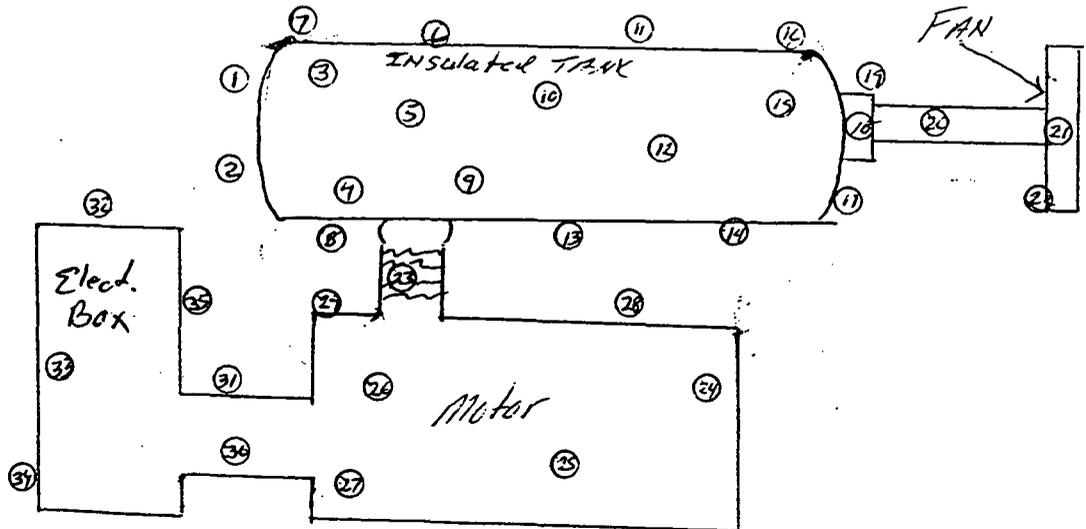
**Radiological Information**

LOCATION: (BLDG/AREA/ROOM) <i>38 Outside North End / Gen-2</i>	SURVEY NO. <i>07 38-0701</i>
PURPOSE: <i>Characterization Survey conducted.</i>	RWP NO. <i>NA</i>
	DATE: <i>4-24-03</i>
	TIME: <i>1030</i>

MAP/DRAWING

*RM-GEN-2*

**COPY**



*Large Area Wipe  
 <math>L < 100 \text{ dpm} </math> ~~100 dpm~~ LAW  
 <math>B < 5K \text{ dpm} </math> LAW  
 other wise noted!*

*direct readings, BGRG: 3cpm  $\alpha$   
 3 phase scan conducted.  
 NO chips detected within  
 required time.  
 Integrated counts not required.  $D = 2.2 \text{cpm} \alpha$   
 20cpm  $\beta$*

LEGEND: # = mrem/hr ( $\gamma$ ) whole body      # = mrem/hr neutron      # = swipe number  
 # E = mrem/hr ( $\beta + n + \gamma$ ) extremity on contact      # = air sample number      #  $\alpha$  or  $\beta$  = direct contamination measurement in dpm/100cm<sup>2</sup>

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
<i>Lud-2360</i>	<i>5764/5839</i>	<i>4/17/04</i>
<i>N/A</i>		

ML-9620 (2/98)

Completed by: (Signature) <i>General Vento</i>	HP#	Date: <i>4/24/03</i>
Completed by: (Print) <i>Leonard Levato</i>		
Counted by: (Signature) <i>See Attached</i>	HP# <i>NA</i>	Date: <i>NA</i>
Counted by: (Print)		
Reviewed/Approved by: (Signature) <i>Robert Gelfond</i>	HP#	Date: <i>4/28/03</i>
Reviewed/Approved by: (Print) <i>ROBERT GELFOND</i>		



Alpha/Beta Analysis

**COPY**

Batch ID: Smear Unit 1 - 200304241227  
 Group: J  
 Serial Number: 78218-1  
 Batch ID: 03-38-0701 LOVATO-35 BSB  
 Selected Geometry: Swipe/Smear

Count Date: 4/24/2003  
 Count Minutes: 1.5  
 Count Mode: Simultaneous  
 Operating Volts: 1440  
 Cal Due Dates: 6/19/2004

Efficiency (%)

Spillover (%)

Alpha: 34.73 ± 0.13  
 Beta: 46.13 ± 0.13

Alpha to Beta: 11.39 ± 0.00  
 Beta to Alpha: 0.07 ± 0.00

Sample ID	Carrier ID	Alpha (dpm)	$\sigma$	Beta (dpm)	$\sigma$
1	58	0.00	0.00	0.00	0.00
2	73	2.18	1.92	3.95	2.51
3	88	2.19	1.92	0.00	0.16
4	28	0.00	0.00	1.37	1.45
5	9	2.19	1.92	1.21	1.45
6	44	0.00	0.00	0.00	0.00
7	42	4.37	2.72	2.43	2.06
8	57	0.00	0.00	1.37	1.45
9	51	0.00	0.00	1.37	1.45
10	24	0.00	0.00	1.37	1.45
11	1	0.00	0.00	1.37	1.45
12	19	0.00	0.00	1.37	1.45
13	33	0.00	0.00	0.00	0.00
14	2	2.19	1.92	0.00	0.16
15	91	0.00	0.00	0.00	0.00
16	92	0.00	0.00	1.37	1.45
17	11	0.00	0.00	1.37	1.45
18	50	4.37	2.72	2.43	2.06
19	98	2.19	1.92	1.21	1.45
20	37	2.18	1.92	3.95	2.51
21	59	0.00	0.00	1.37	1.45
22	42	0.00	0.00	4.11	2.50
23	69	0.00	0.00	2.74	2.04
24	57	2.19	1.92	1.21	1.45
25	76	0.00	0.00	2.74	2.04
26	81	0.00	0.00	6.85	3.23
27	31	4.37	2.72	2.43	2.06
28	81	0.00	0.00	1.37	1.45
29	62	0.00	0.00	0.00	0.00
30	87	2.19	1.92	1.21	1.45
31	49	0.00	0.00	1.37	1.45
32	15	0.00	0.00	1.37	1.45
33	82	0.00	0.00	5.48	2.89
34	17	0.00	0.00	1.37	1.45
35	32	0.00	0.00	4.11	2.50
<del>36</del>	<del>32</del>	15.29	5.08	18.09	5.43

Delete Duplicate 4/24/03 h

