Nevada
Environmental
Restoration
Project

DOE/NV-11718-161
UC-702

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Closure Report
for Housekeeping Category
Corrective Action Unit 349
Area 12
Nevada Test Site

Controlled copy No. _____

Revision: 0

January 1998

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MASTER

Environmental Restoration
Division

U.S. Department of Energy
Nevada Operations Office

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ABSTRACT

This Closure Report is prepared in accordance with the *Work Plan for Closure Verification of FFACO Housekeeping Corrective Action Sites/Units* (DOE/DoD, 1996). This Closure Report summarizes the corrective actions which were completed at Corrective Action Sites within Corrective Action Unit 349. This Closure Report is subject to review and approval by the Nevada Division of Environmental Protection.

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 25-JUN-97

CAS Number: 12-14-01

CAU Number: 349

General Location: U-12BR-9

Elevation:

Latitude:

Northing: 899,679.042

Longitude:

Easting: 636,502.936

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through A-12 Camp. Turn right (north) on South Rainier Mesa Rd and proceed to the "T" Rd intersection, turning left (north). Proceed approx. 0.5 mi to T-Rd, turn right (east). Proceed as road turns left approx. 0.3 mi to access road, turn right (east). Proceed approx. 0.2 mi to CAS. (CAS 12-24-01 is nearby.)

Waste Item(s) Originally at Site	Apparent Waste Type*
3 Transformers	PCB (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior to Cleanup

CAS Status After Cleanup

Current Site Description/Observations: The site is located 75 feet northeast of hole U12BR-9. BN Nonradioactive Waste Operations personnel verified that the transformers were no longer present. Metal debris, broken glass, miscellaneous signal cable and wires were retrieved for disposal at U10c Landfill. CAS 12-24-01 (broken battery casing fragments) was nearby.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

6-25-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 19-JUL-97

CAS Number: 12-14-02

CAU Number: 349

General Location: T-Tunnel Pond #4

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd, following signs to T-Tunnel portal. Locked barricade may be accessed by notifying OCC at 5-4015. Actual CAS lies within contaminated area and requires a Radiological Control Technician escort for entry.

Waste Item(s) Originally at Site	Apparent Waste Type*
3 Transformers	PCB (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status As Originally Identified

Current CAS Status

Current Site Description/Observations: The site is located 500 feet north of T-Tunnel Pond #4. The power lines are active and the transformers are in use. On 19-JUL-97, it was verified that each transformer is marked "NON PCB". Since this CAS lies within a contaminated area, none of the scrap metal or wood debris in the area, identified by IT Corp. field crews in 1995, was retrieved.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-18-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 28-AUG-97

CAS Number: 12-14-03

CAU Number: 349

General Location: Area 12 Lineman's Storage Yard

Elevation:

Latitude:

Northing: 888,751.876

Longitude:

Easting: 644,903.308

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through A-12 Camp for approx. 1.1 mi. The site is at the corner of Rainier Mesa Rd and N-Tunnel Rd in the Lineman's Storage Yard, on the right (northwest) side of Rainier Mesa Rd. A CAS marker is located near the east side power pole.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Transformer	PCB (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by REEC Co on 18-APR-91 as possibly containing PCBs, BN Nonradioactive Waste Operations personnel retrieved the transformer, had it inspected by BN Wiremen, and delivered it to A-23 Salvage Yard (as scrap metal) after it was determined that the non-PCB transformer was non-serviceable. The Lineman's Storage still contains several pieces of equipment, cable reels, and supplies.

☒ No Further Action Required at Corrective Action Site

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8.28.97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 24-JUL-97

CAS Number: 12-22-13

CAU Number: 349

General Location: U-12g.08 CH #1

Elevation:

Latitude:

Northing: 881,847.551

Longitude:

Easting: 633,117.793

Coordinate/Elevation Data Obtained from Garmen 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through A-12 Camp. Turn right (north) onto South Rainier Mesa Rd ("R" Rd). Turn right (south) on "P"-Rd and proceed for 1.3 mi until reaching large wood structure containing numerous lines of signal cable. The CAS lies 300 feet at 190 degrees azimuth from wood structure.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Drum, Empty and Semi-Buried	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REECo in 1991 as empty, IT Corp. field crews verified in 1993 that the drum contained cement. BN Nonradioactive Waste Operations personnel retrieved the drum, miscellaneous cable debris, empty metal containers, pipe and metal debris for disposal at the A-9 U10c Landfill.

☒ No Further Action Required at Corrective Action Site

C. Carlos Gonzales

C. Carlos Gonzales

7-24-97

Corrective Action Coordinator/Designee

(Signature)

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 10-JUL-97

CAS Number: 12-22-15

CAU Number: 349

General Location: U-12e.03aa PS#44

Elevation:

Latitude:

Northing: 887,741.465

Longitude:

Easting: 633,693.547

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through A-12 Camp. Turn right (north) onto South Rainier Mesa Rd ("R" Rd) and stop at intersection with "P"-Rd. Walk 925 feet at 80 degrees from intersection to drill-back hole. From hole, walk 100 feet north around rock outcrop to U-12e.03aa.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Drum, Empty	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co in 1991, IT Corp. field crews verified this CAS in 1993. BN Nonradioactive Waste Operations personnel retrieved empty drums, miscellaneous wire and cable debris, empty metal containers, 10" dia. pipe and debris for disposal at the A-9 U10c Landfill.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-10-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 19-JUL-97

CAS Number: 12-22-19

CAU Number: 349

General Location: T-Tunnel Pond #3

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. Locked barricade may be accessed through OCC 5-4015, but CAS lies within contaminated area which requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Drum, Empty	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co in 1991, IT Corp. Field crews verified in 1996 that the drum had been removed. BN Nonradioactive Waste Operations (NWO) personnel re-verified this while conducting cleanup work at the I, J, K tunnel portal areas. The CAS is located approx. 300' north of T-Tunnel Pond #3.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-19-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 01-AUG-97

CAS Number: 12-22-27

CAU Number: 349

General Location: I, J, K-Tunnels

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. Locked barricade may be accessed through OCC 5-4015, but CAS lies within contaminated area which requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Drum, Crushed and Empty	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co on 26-FEB-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the crushed drum was still there on 19-JUL-97. NWO personnel retrieved the non-contaminated drum and disposed of it at the Area 9 U10c Landfill. This CAS is approximately 40' north of the Contaminated Waste Dump (CWD) at I, J, K Tunnels.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-1-97
Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 01-AUG-97

CAS Number: 12-22-28

CAU Number: 349

General Location: I, J, K-Tunnels

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. Locked barricade may be accessed through OCC 5-4015, but CAS lies within contaminated area which requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
1 Drum, Empty	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co on 26-FEB-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the empty drum was still there on 19-JUL-97. NWO personnel retrieved the non-contaminated drum and disposed of it at the Area 9 U10c Landfill. This CAS is 300', 180 degrees south of the Contaminated Waste Dump (CWD) at I, J, K Tunnels.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-1-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 01-AUG-97

CAS Number: 12-22-29

CAU Number: 349

General Location: I, J, K-Tunnels

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. Locked barricade may be accessed through OCC 5-4015, but CAS lies within contaminated area which requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
Two 30-gallon drums (empty)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co on 26-FEB-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the drums were still there on 19-JUL-97. NWO personnel retrieved the non-contaminated drums for disposal at the Area 23 Landfill. This CAS is approximately 60', 240 degrees southwest of the K-Tunnel portal.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-1-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 27-AUG-97

CAS Number: 12-22-33 (12-22-37)

CAU Number: 349

General Location: Near U12F Portal

Elevation:

Latitude:

Northing: 889,768

Longitude:

Easting: 636,138

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on E-Tunnel Rd, past the E-Tunnel access road, veering right on poorly maintained road, past B-Tunnel. The C, D, F Tunnel portals are located above B-Tunnel portal. Barricades may be accessed through OCC 5-4015, but access to original CAS requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
One 55-gal. drum (contains approx. 30-gal. liquid)	Radioactive

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REECo on 14-SEP-90, and again as a separate CAS on 18-APR-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the CASs were the same drum. On 27-AUG-97, NWO personnel retrieved the drum and sampling was conducted. The drum was removed from the CAS and placed in storage pending further characterization and disposition.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

(Signature)

8/27/97
Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 27-AUG-97

CAS Number: 12-22-37 (12-22-33)

CAU Number: 349

General Location: U12C Portal

Elevation:

Latitude:

Northing: 889,768

Longitude:

Easting: 636,138

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on E-Tunnel Rd, past the E-Tunnel access road, veering right on poorly maintained road, past B-Tunnel. The C, D, F Tunnel portals are located above B-Tunnel portal. Barricades may be accessed through OCC 5-4015, but access to original CAS requires a Radiological Control Technician escort.

Waste Item(s) Originally at Site	Apparent Waste Type*
One 55-gal. drum (contains approx. 30-gal. liquid)	Radioactive

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified as 12-22-33 on 14-SEP-90, and as 12-22-37 on 18-APR-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the CASs were the same drum. On 27-AUG-97, NWO personnel retrieved the drum and sampling was conducted. The drum was removed from the CAS and placed in storage to await further characterization and disposition.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8/27/97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 30-JUL-97

CAS Number: 12-22-38

CAU Number: 349

General Location: Bldg. 12-300

Elevation:

Latitude:

Northing: 889,735.010

Longitude:

Easting: 636,781.704

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, northwest through Area 12 Camp, turning right (north) on E-Tunnel Rd. Drive past the E-Tunnel access road and veer right on poorly maintained road toward B-Tunnel. Building 12-300 is on the left side of road prior to reaching B-Tunnel portal. Barricades may be accessed through OCC, 5-4015.

Waste Item(s) Originally at Site	Apparent Waste Type*
One 55-gal. drum (empty)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REECo as containing a small amount of sludge on 18-APR-91, BN Nonradioactive Waste Operations (NWO) personnel verified that the drum was empty. When NWO personnel retrieved the drum for disposal, two lead sheets were found and recycled at NTS Property & Supply. A marker identifies the former CAS on the south side of Bldg. 12-300.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

C. Carlos Gonzales
(Signature)

7-30-97

Corrective Action Coordinator/Designee

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 10-JUL-97

CAS Number: 12-22-43

CAU Number: 349

General Location: U12r Crater

Elevation:

Latitude:

Northing: 895,745.286

Longitude:

Easting: 628,454.439

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd, then left (west) on "T" Rd, proceeding to a right-hand (east) turn-off before barricade #12-2C. The crater is on the south side of the road just over the crest of the hill.

Waste Item(s) Originally at Site	Apparent Waste Type*
Empty Drums, Debris, & Broken Battery	Ordinary (Drums, Debris) & Recyclable (Battery)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by IT Corp. field crews on 14-JUL-93, BN Nonradioactive Waste Operations (NWO) personnel verified that drums and debris, including a broken lead-acid battery, were still present on 17-JUN-97. NWO personnel retrieved the drums and debris for disposal at the solid waste landfill, and the broken battery was accepted for recycling at Area 23 Fleet Operations.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-10-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 25-JUN-97

CAS Number: 12-24-01

CAU Number: 349

General Location: U12 BR-9

Elevation:

Latitude:

Northing: 899,679.042

Longitude:

Easting: 636,502.936

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd, then left (west) at the "T" intersection. Proceed 0.5 mi to T-Rd, turn right (east), then proceed to the left for 0.3 mi to access road. Turn right (east) approx. 0.2 mi to site.

Waste Item(s) Originally at Site	Apparent Waste Type*
Crushed Battery	Hazardous (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Although a crushed battery was originally identified at this CAS, only battery casing fragments were found by BN Nonradioactive Waste Operations personnel. The battery casing fragments were retrieved for disposal at the solid waste landfill at Area 9 U10c Crater. CAS 12-14-01 is nearby.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

(Signature)

6.25.97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 10-JUL-97

CAS Number: 12-24-05

CAU Number: 349

General Location: DOE Point

Elevation:

Latitude:

Northing: 895,993.990

Longitude:

Easting: 625,425.621

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd (R-Rd), which joins "S" Rd, and proceed to "T" Rd. Turn left (west) on T-Rd approx. 0.5 mi past H-Rd turn-off. Pass the "Danger Power Lines/Max HT 40 Foot" sign, turn left (west) and proceed to the site at the top of the hill.

Waste Item(s) Originally at Site	Apparent Waste Type*
Battery (Broken)	Hazardous (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: A battery, broken in half, was originally identified at this CAS on 11-JAN-91, but only battery casing fragments and misc. debris were found by BN Nonradioactive Waste Operations personnel. The waste was retrieved and disposed of at the Area 9 U10c Landfill. It is presumed that REEC Co personnel retrieved the battery after IT Corp. field crews verified its presence on 15-JUL-93.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-10-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 10-JUL-97

CAS Number: 12-24-12

CAU Number: 349

General Location: U-12e.03aa

Elevation:

Latitude:

Northing: 887,697.831

Longitude:

Easting: 633,677.143

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd (R-Rd), and proceed to the "P" Rd intersection. Park and walk 925 feet east towards a drillback hole. From the hole, walk 100 feet to the north around an outcrop to find U-12e.03aa.

Waste Item(s) Originally at Site	Apparent Waste Type*
Battery (Broken)	Hazardous (potentially)

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: A broken battery was originally identified at this CAS on 04-FEB-91. BN Nonradioactive Waste Operations personnel verified its presence and retrieved it for recycling at Area 23 Fleet Ops. Also, misc. metal and cable debris were retrieved and disposed of at the Area 9 U10c Landfill.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-10-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 29-JUL-97

CAS Number: 12-24-14

CAU Number: 349

General Location: U-12g.07 CH #1

Elevation:

Latitude:

Northing: 883,485.639

Longitude:

Easting: 633,927.154

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality.

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest past Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd (R-Rd), turn right (south) on "P" Rd and proceed 0.9 mi. Turn left (east) on dirt road, proceed up hill to U-12g.07 CH#1 (first flat pad on this road). Site is on right, before steep hill.

Waste Item(s) Originally at Site	Apparent Waste Type*
(4) Batteries (Broken)	Hazardous

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Two broken batteries were identified by REEC Co on 24-FEB-91, and IT Corp. field crews found two additional batteries on 11-AUG-93. BN Nonradioactive Waste Operations personnel retrieved the broken batteries for disposal as hazardous waste. Also, misc. metal and cable debris were retrieved for disposal at the Area 9 U10c Landfill, and one small battery was delivered to Area 23 Fleet Ops. for recycling.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-29-97
Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 01-AUG-97

CAS Number: 12-24-17

CAU Number: 349

General Location: J Tunnel

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. The locked barricade may be accessed through OCC at 5-4015, but the CAS lies within a contaminated area which requires escort by a Radiological Control Technician. The I, J, K tunnels are located on the ridge northeast of the barricade.

Waste Item(s) Originally at Site	Apparent Waste Type*
(12) Batteries	Recyclable

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: REECo had originally identified 12 batteries on 27-FEB-91, but BN Nonradioactive Waste Operations personnel only found 9 intact batteries in the former Mechanic's Shack. Also, one lead brick was retrieved from the area. All batteries and the lead brick were delivered to Area 23 Fleet Ops. for recycling.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-1-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 01-AUG-97

CAS Number: 12-24-18

CAU Number: 349

General Location: J Tunnel

Elevation:

Latitude:

Northing:

Longitude:

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to 12-01 Rd. Turn right (north) on 12-01 Rd and follow signs to T-Tunnel portal. The locked barricade may be accessed through OCC at 5-4015, but the CAS lies within a contaminated area which requires escort by a Radiological Control Technician. The I, J, K tunnels are located on the ridge northeast of the barricade.

Waste Item(s) Originally at Site	Apparent Waste Type*
Batteries (Dry Cells)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC0 28-FEB-91, BN Nonradioactive Waste Operations personnel found the deteriorated pack of dry cell batteries 200 feet southwest of the former Mechanic's Shack. The batteries were not contaminated and were disposed at the Area 23 Landfill.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-1-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 30-JUL-97

CAS Number: 12-24-21

CAU Number: 349

General Location: U12B Portal

Elevation:

Latitude:

Northing: 889,609.686

Longitude:

Easting: 636,567.666

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp to E-Tunnel Rd. Turn right (west) and proceed past E-Tunnel access road up poorly maintained road to B-Tunnel. The security and locked barricades may be accessed through OCC at 5-4015.

Waste Item(s) Originally at Site	Apparent Waste Type*
(2) Batteries	Recyclable

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Originally identified by REEC Co 18-APR-91, an IT Corp. field crew verified their presence 300 feet east of U12B portal on 01-MAR-95. BN Nonradioactive Waste Operations personnel retrieved the large batteries for recycling through Area 23 Fleet Ops. The large steel case was disposed at the A-23 Landfill.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

(Signature)

7-30-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 02-JUL-97

CAS Number: 12-24-22

CAU Number: 349

General Location: Rooster Point

Elevation:

Latitude:

Northing: 883,686.096

Longitude:

Easting: 633,636.634

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp, turning right (north) on S. Rainier Mesa Rd (R-Rd). At large forked intersection (past RSM 12R-14), turn right (south) on P-Rd to RSM 12P-5 and proceed left at road marked "Rooster Point". Grey collapsed building is on left (north) side of road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Batteries (Dry Cell)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: IT Corp. field crews found this CAS while at Rooster Point on 13-JUL-93. The concrete block building has a collapsed wood roof. BN Nonradioactive Waste Operations personnel retrieved the deteriorated pack of dry cells for disposal at the A-23 Landfill.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

C. Carlos Gonzales
(Signature)

7-2-97

Corrective Action Coordinator/Designee

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 29-JUL-97

CAS Number: 12-24-23

CAU Number: 349

General Location: "R" Road (Dick Adams Detour)

Elevation:

Latitude: 37° 11' 13"

Northing:

Longitude: 116° 13' 10"

Easting:

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp, turning right (north) on S. Rainier Mesa Rd (R-Rd). Follow road to a dirt road just south of the Dick Adams Detour (marked with red, steel fence posts). The CAS marker is on the left (north) side of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
(3) Batteries	Hazardous & Recyclable

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: IT Corp. field crews found this CAS on 15-JUL-93 and reported three batteries (two broken and one intact) along the left (north) side of the road before the Detour turnoff. BN Nonradioactive Waste Operations personnel verified only one broken battery (delivered to A-5 HWSU as hazardous waste) and one intact battery (delivered to A-23 Fleet Ops. for recycling). The batteries were approximately 100 feet apart.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

C. Carlos Gonzales
(Signature)

7-29-97

Corrective Action Coordinator/Designee

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 02-JUL-97

CAS Number: 12-24-24

CAU Number: 349

General Location: RSM 12 P 4

Elevation:

Latitude:

Northing: 883,417.402

Longitude:

Easting: 633,405.839

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp, turning right (north) on S. Rainier Mesa Rd (R-Rd). Follow road past RSM 12R-14, then turn right (south) onto S-Rd, proceeding past RSM 12S-5 to P-Rd. Turn left (north) and continue 100' s. of RSM 12P-4 to the east.

Waste Item(s) Originally at Site	Apparent Waste Type*
(2) Batteries	Recyclable

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: IT Corp. field crews found this CAS on 13-JUL-93 on the east side of the P-Rd, near the communications tower access road. BN Nonradioactive Waste Operations personnel verified that both intact batteries were still there. These were retrieved and delivered to Area 23 Fleet Operations for recycling. The batteries were approximately 100 feet past Rad-Safe Marker (RSM) 12P-4 along east of road.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-2-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 02-JUN-97

CAS Number: 12-46-02

CAU Number: 349

General Location: A-12 Fire Station

Elevation:

Latitude:

Northing: 889,670.149

Longitude:

Easting: 647,414.085

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding to Area 12 Camp. Turn right (north) on Logan St., then left (west) on Rainier St., proceeding to the Fire Station. The site is located in a wash south of the Fire Station (Building 31).

Waste Item(s) Originally at Site	Apparent Waste Type*
Gas Cylinder	Unknown

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

No CAS Photo Available Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by IT Corp. field crews on 14-JUL-93, BN Nonradioactive Waste Operations (NWO) personnel verified that the gas cylinder was no longer present at the CAS. One marker identifies the location in the wash approximately 50 feet southeast of the building.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

6-2-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 02-AUG-97

CAS Number: 12-99-02

CAU Number: 349

General Location: RSM 12R-13

Elevation:

Latitude:

Northing: 887,076.143

Longitude:

Easting: 630,412.771

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd (R-Rd) and proceed to RSM 12R-13. The CAS is 360 degrees and 75 feet from RSM 12R-13, north of the guard rail on the right side of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Fuel Tank (empty)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: The empty tank was identified by REEC Co personnel on 11-JAN-91. IT Corp. field crews verified on 15-JUL-93 that the tank had been removed, but a soil stain was present. BN Nonradioactive Waste Operations (NWO) personnel recovered the diesel-stained soil for disposal at the Area 6 Hydrocarbon Landfill. A marker identifies the former CAS at the north end of the roadside guardrail.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

8-2-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 24-JUL-97

CAS Number: 12-99-03

CAU Number: 349

General Location: P Road, Shacks

Elevation:

Latitude:

Northing: 882,161.849

Longitude:

Easting: 633,279.534

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through Area 12 Camp. Turn right (north) on S. Rainier Mesa Rd (R-Rd) and proceed to P-Rd. Turn right (south) and proceed approx. 1.2 mi to wood shacks on left side of road. The cylinder was inside the north small shack.

Waste Item(s) Originally at Site	Apparent Waste Type*
Gas Cylinder (empty)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by REEC Co personnel 11-JAN-91, IT Corp. field crews verified on 11-AUG-93 that the gas cylinder was still there. BN Nonradioactive Waste Operations (NWO) personnel recovered the gas cylinder for disposal at the Area 9 U10c Landfill. Misc. cables and metal debris were also retrieved for disposal. The wood shacks and a large volume of cables remain.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-24-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 30-JUL-97

CAS Number: 12-99-05

CAU Number: 349

General Location: Area 12 Camp

Elevation:

Latitude:

Northing: 891,613.676

Longitude:

Easting: 647,870.436

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest to Area 12 Camp. Turn right (north) on Logan St., proceed toward end of street, and turn left (west) on 7th St. At the end of 7th St., follow dirt road northwest approx. 0.05 mi to gravel pad south of power lines. CAS is at southwest corner.

Waste Item(s) Originally at Site	Apparent Waste Type*
Asbestos Pipe	Asbestos

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by REEC Co personnel 28-JAN-91, IT Corp. field crews verified on 21-SEP-93 that the asbestos-cement pipes (3 small sections) were still there. BN Nonradioactive Waste Operations (NWO) personnel retrieved the pipes and miscellaneous debris for disposal at the Area 23 Landfill. A marker identifies the former CAS along the southwest corner of the gravel pad.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

7-30-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 02-JUN-97

CAS Number: 12-99-09

CAU Number: 349

General Location: Lineman Storage Yard

Elevation:

Latitude:

Northing: 888,824.053

Longitude:

Easting: 644,828.178

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy north to Rainier Mesa Rd, proceeding northwest through A-12 Camp for approx. 1.1 mi. The site is at the corner of Rainier Mesa Rd and N-Tunnel Rd in the Lineman's Storage Yard, on the right (northwest) side of Rainier Mesa Rd. A CAS marker is located at the southwest corner of the yard.

Waste Item(s) Originally at Site	Apparent Waste Type*
Gas Cylinder	Unknown

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by REEC Co personnel 18-APR-91, IT Corp. field crews verified on 13-JUL-93 that the gas cylinder (marked "Nitrogen") was still there. On 02-JUN-97, BN Nonradioactive Waste Operations (NWO) personnel found that the cylinder had already been removed, most likely by REEC Co personnel. Lineman storage materials surround the area and remain on site.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

Corrective Action Coordinator/Designee

C. Carlos Gonzales
(Signature)

6.2-97

Date

**FFACO CORRECTIVE ACTION SITE
HOUSEKEEPING CLOSURE VERIFICATION FORM**

Closure Verification Date: 30-JUL-97

CAS Number: 12-99-11

CAU Number: 349

General Location: Area 12 Camp

Elevation:

Latitude:

Northing: 890,761.988

Longitude:

Easting: 647,802.855

Coordinate/Elevation Data Obtained from Garmin 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

Site Access Route: Mercury Hwy N, Rainier Mesa Rd NW, to A-12 Camp. Turn right (N) on Logan St, proceeding approx. 0.35 mi to Chena St, then turning left (W) on Chena St to dirt road (approx. 0.1 mi). Turn left (S) for approx. 0.05 mi towards another dirt road. Turn right (W) and proceed approx. 65 feet. The CAS lies approx. 30 feet N of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Asbestos Pipe	Asbestos

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

CAS Status Prior To Cleanup

CAS Status After Cleanup

Current Site Description/Observations: Identified by IT Corp. field crews on 21-SEP-94, one partially-buried asbestos-cement pipe was found in a mound of dirt. BN Nonradioactive Waste Operations (NWO) personnel found an additional pipe while retrieving the CAS pipe for disposal at the A-23 Landfill. A marker identifies the mound of dirt, 65 feet W of the cafeteria, 30 feet N of the dirt road.

☒ **No Further Action Required at Corrective Action Site**

C. Carlos Gonzales

C. Carlos Gonzales

7-30-97

Corrective Action Coordinator/Designee

(Signature)

Date

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