PGE TSCA INSPECTION QUESTIONS
FEBRUARY 4, 1987

STORAGE FACILITIES - FOR DISPOSAL Sellwood
- FOR REUSE Transformer shop
- DIELECTRIC FLUID FOR SERVICING Transformer shop

IF STORAGE OF BULK TANKS - LOCATION

- RECORDS OF OILS BUT IN STORAGE FOR L property
  - REUSE; BATCH TESTS, QUANTITY
  - DISPOSAL; BATCH TESTS, QUANTITY

- COPY OF THE SPILL PREVENTION CONTROL AND COUNTER MEASURE PLAN Section L Transformer

CERTIFICATION NOTICES FOR TRANSFORMERS SHIPPED FOR DISPOSAL manifests

MANIFESTS FOR REVIEW FROM JANUARY 1, 1984 TO PRESENT (WILL REQUEST COPIES OF EXAMPLES)

INSPECTION LOGS
- STORAGE
- TRANSformers on lines Rm 4, C
- OTHERS THAT RELATE TO ANNUAL REPORTS

#0172F

EPA Inspection

(6/23/86)

ENVIRONMENTAL PROTECTION AGENCY, REGION X
TSCA INSPECTION CHECKLIST
40 CFR 761 -- 1984

Facility Name/Full Address | Facility Representative/Title | Inspection Date/Time | Inspector Name/Phone

		YES	NO
GENERAL			
Has facility ever manufactured PCB's or PCB items?			✓
Are PCB's produced as a by-product of any manufacturing process?			
Are > 1 PCB T or > 49 PCB C or > 99#(42kg) PCB in use or storage?	1.	✓	
If yes to any of the above, are records kept for all PCB's and PCB items?			
Has any PCB equip been converted to PCB-Cont or Non-PCB equip? 761.30(a)(v)	2.	✓	
If yes, was PCB concentration tested after 3 mos of service? Obtain results.			
Have any PCB spills occurred at the facility? Obtain details.			
Have there been any fires involving PCB Transformers?			
If yes, Date? _____, Who responded? _____, Did Transformer rupture? _____			
Was fire reported to National Response Center?			
Are any combustible materials stored: Inside a PCB Transformer enclosure?			
Within 5 meters of a PCB Transformer enclosure?			
Within 5 meters of a PCB Transformer?			
Have all PCB T been registered with the Fire Department or other control authority?	3.	✓	
WASTE OILS (Non PCB)			
Are waste oils generated, used, or stored at the facility?	4.	✓	
What is the source of the waste oils?			
Are waste oils picked up by a recycler?		✓	
Have any waste oils (50-500ppm) been shipped to a disposal facility?			✓
Have any waste oils (50-500ppm) been sold for fuel or burned in a high efficiency boiler? . . .			✓
If yes, was EPA notified of initial burn in the HEB? 761.60(a)(2)			
Are waste oils used or sold for: Road Oil ___, Dust Control ___, Rust Prevention ___, Sealants ___,			✓
Pesticide/Herbicide Carriers ___? 761.20(d)			
(Waste oils can't be used for these purposes unless tested and found to be PCB free)			
Are waste oils tested for PCB concentration? 761.60(g)			✓
Are bulk storage tanks used for waste oils? (>55 gal DOT drum specs)	5.	✓	
Is an SPCC plan available for PCB-Contaminated bulk storage tanks?	6.	✓	
Are bulk storage tanks labeled? (Must label if PCB concentration is unknown or > 50ppm.)			
Are in-out records (date/amt) available for bulk storage? 761.65(c)(8)			
Have PCB fluids (> 500 ppm) ever been added to bulk storage tanks?			
Have PCB Contam fluids (50-500 ppm) ever been added to < 50 ppm PCB bulk storage tanks?			
STORAGE FOR DISPOSAL 761.65			
Is there a designated Storage for Disposal Area (SFD)?	7.	✓	
Marked with 6x6 M_L label? 761.65(b)(3)			
Roofed?			
Is rain prevented from reaching PCB's or PCB items?			
Adequate walls provided?			
Minimum 6" curbs provided around SFD?			
Floor constructed of smooth, impervious materials?			
Any drains or expansion joints present in the floor?			
Any sewer drains or sumps located in the SFD?			
Is containment volume adequate?			
(At least 2x internal volume of the largest PCB article/container or 25% of the total internal volume of all PCB articles or containers in storage.)			
Is the SFD above the 100-yr flood water elevation?		✓	
Are any PCB's or PCB items stored within the SFD? Itemize-obtain inventory			
Are items dated when placed into SFD?			
Are items checked monthly for leaks?			
Are items marked with M_L?			
Are any PCB Transformers in SFD? How many? _____			
Are any PCB Transformers declared "for disposal" stored outside of the SFD?			
Are any PCB-Cont Elec Equip or PCB Cap declared "for disposal" stored outside the SFD?			
If yes: 1. Is space = 10% of the volume of the Contaminated Trans available in the SFD?			
2. Are weekly inspections for leaks performed?			
Is a Temporary Storage Area (TSA) being used for PCB items? 761.65(c)	8.		✓
Are Items Dated? _____ Marked? _____			
Is the 30 day temporary storage limit observed?			
Are PCB containers in TSA containing PCB's between 50 and 500 ppm covered by an SPCC plan?			
Are containers in TSA marked with M_L and date removed from service?			
Are liquids in containers < 500 ppm?			
If yes, are containers marked < 500 ppm PCB?			
(Temporary storage is not allowed for PCB liquids (> 500 ppm)			
Are PCB liquids (>500ppm) stored anywhere other than the SFD area?			
Have any PCB's or PCB items been shipped to a disposal facility within the last 5 years?			
Are shipping papers/manifests available for shipments?			

ANNUA

	YES	NO
TRANSFORMERS Use Conditions 761.30(a)(1)		
Does company own or maintain any PCB transformers located in a Food/Feed facility?		✓
If yes, are weekly inspections made? By whom?		
Are inspection records available? Obtain copies.		
NOTE: PCB transformers are PROHIBITED in a Food/Feed Facility after OCTOBER 1, 1985.		
Are any PCB Transformers (> 500 ppm) in use?		
How many: PCB Transformers____, Non-PCB Transformers____, PCB Contaminated Trans____		
Are all PCB Transformers labeled with 6x6 M_L?		
Are exteriors of PCB T vaults/enclosures (excluding grates & manhole covers) marked with M_L?		
Do all transformers have nameplates or documentation specifing the type of dialectric fluid?		
Are PCB Transformers serviced on site? (Examine area)		✓
How are PCB Transformers serviced?		
Are PCB contaminated rags or other wastes generated by servicing placed into drums in the SFD?		
Are PCB's removed from the Transformer during servicing?		
If yes, are PCB's put back into the Transformer or placed into the SFD?		
Are PCB Transformer coils removed during servicing? (Prohibited)		✓
Are PCB liquids (> 500 ppm) stored on site for servicing PCB Transformers? (Must be in SFD)		✓
Are PCB concentration testing records available for transformers?	✓	
Are service records available for PCB transformers?		✓
Were any leaking PCB Transformers observed at the facility? (Get serial numbers, location)		
Is clean-up of leaks initiated within 48 hours of discovery?	✓	
Are daily checks of active leaks and drip pans made until leak is repaired?		
Are Quarterly inspections made (start 8-10-81) of PCB Transformers?		
Are records of Quarterly inspections maintained for at least 3 years after disposal?		
Do Quarterly PCB-Transformer inspection records include? Location?		
Inspection date?		
Inspectors Name or Initials?		
Date leak discovered?		
Location of leak?		
Estimate of amount PCB released?		
Date of cleanup?		
containment?		
repair?		
Discription of cleanup?		✓

Annual inspections may be performed in leiu of Quarterly if: 761.30(a)(1)(v)
1. Secondary containment of 100% of the capacity of the Trans is provided or
2. PCB conc of the Trans is < 60,000ppm, 90 days after servicing to reduce the PCB conc.

CAPACITORS 761.30(L)-Use Conditions		
Are any PCB-Capacitors in use or in storage at facility? How many?	✓	
Are >49 LHV/LLV C (3# PCB; or > 200 in^3; or > 100 but < 200 in^3 and > 9# tot wt) in use/stor?		
If yes, are these capacitors included in the Annual Report?		
Are Capacitors marked with M_L 6x6? (LHVC in service need to be marked)		
Has facility ever had > 49 LHV/LLV C in use or storage within the last 5 years?		
If yes, are annual reports on file for years when > 49 Capacitors were in use or storage?		
Have any Capacitors been removed from service?		
If yes, have Capacitors been individually labeled with M_L?		
Note: LLVC (< 2000 volts) in service do not need M_L. LLVC (< 2000 volts) must be labeled upon removal from service.		
Are all Capacitors equipped with nameplates specifing type of dielectric fluid?	✓	
(Capacitors without nameplates must be assumed to be PCB Capacitors.)		
Are any PCB C owned or maintained by the company located in a Food or Feed Facility (FFF)?		
(These must be removed as of 10-1-88.)		
Are any Capacitors manufactured after 7-1-78 in use at the facility?	✓	
If yes, are these Capacitors marked "No PCB's" if they contain none?		
Were any leaking Capacitors observed during the inspection?		

Note: Use of PCB Capacitors after 10/1/88 is prohibited except for:
1. Restricted Access and Contained Indoor Installation
2. Restricted Access Substation

ANNUAL REPORT 761.180(a)		
Is an AR available for July-December 1978? 22-85 (Note to Inspector: Review of all back records)	✓	
Are AR available for CY 1979-1985? (need not be completed if previous compliance)		
(inspection has been completed for the facility)		
(and record violations were cited.)		
Are Annual Reports kept for 5 years?		
Are all PCB Transformers removed from service itemized in AR?		
Is the total weight (kg) of PCB's contained in these transformers shown?		
Date removed from service?		
Date placed into storage?		
Date placed into transport for disposal?		
Is number of PCB Trans and total wt (kg) of PCB's remaining in service at year end shown?		

	YES	NO
ANNUAL REPORT (continued)		
Are LHV/LLV PCB Capacitors removed from service itemized in annual Report?		
Date removed from service?		
Date placed into storage?		
Date placed into transport for disposal?		
Is the number of PCB LHV/LLV Capacitors remaining in service at year end shown?		
Is the number of containers of PCB liquids in the SFD area shown?		
Is the weight (kg) of these PCB liquids also shown?		
Are PCB items in containers listed?		
Date container placed into storage shown?		
Date container placed into transport for disposal shown?		
Are names/locations of disposal/storage facilities for PCB shipments shown?		
Have any intermediate storage/disposal areas been used for PCB items earmarked for disposal?		
SPECIAL QUESTIONS		
Are any Dairylide or Phthalocyanin pigments in use or storage? 761.30(g)		✓
Is any PCB mining equip used or located at facility? 761.30(c)		
Are any Railroad Trans in use or located at facility? 761.30(b)		
Was PCB conc measured after service or within 12-24 mo after PCB conc was reduced?		
Are records kept of service, testing, use, storage, and disposal? (Must keep until 1-1-91)		✓
Are any heat transfer systems containing PCB's in use? 761.30(d)		
Are annual tests for PCB concentration made? Date of last test?		
Have any annual tests shown PCB concentration to be > 50ppm?		
If yes, has system been drained and refilled with < 50ppm PCB fluid?		
Are these annual testing records kept for 5 years?		
Are Electromagnets containing PCB's in use or storage at the facility? How many?		
Have Electromagnets been tested for PCB concentration?		
Are any PCB Electromagnets (> 500ppm PCB) in use or storage at the facility? How many?		
NOTE: Non-PCB fluid may be used to top-off Electromagnets. (Removal of internals prohibited)		
Are Hydraulic systems containing PCB's in use? 761.30(e)		
Has annual testing for PCB concentration been performed since 11/01/79?		
NOTE: Annual tests are not required after PCB concentration reaches < 50ppm.		
Have any annual tests shown PCB concentration to be > 50ppm?		
If yes, has system been drained and refilled within 6 mos of test with < 50ppm PCB fluid?		
Was exemption obtained from EPA for use of hydraulic fluid containing > 50ppm PCB?		
NOTE: Hydraulic Systems containing > 50 ppm PCB are PROHIBITED after 7/1/84.		
COMMERCIAL BUILDING REGULATIONS		
Is there a commercial building located on company property?		
Are any PCB Transformers located inside or within 30 meters of the Commercial Building?		
If yes, how many? _____ Where located? _____		
Who owns the PCB Transformers? _____		
If owned by utility, are PCB Transformers registered with the building owner?		
If owned by the building owner, are PCB Transformers registered with fire department?		
Are PCB Transformers: Radial? ____ Network? ____ High Secondary Voltage 480V? ____		
Low secondary voltage? ____		
Do LSV Network and HSV Radial PCB T in/near the Commercial Bldg have enhanced elect protect?		
Current-limiting fuses? ____, Overcurrent protective relays? ____, Circuit Breakers? ____		
Heat or Ultraviolet sensors? ____, Pressure sensors? ____, Fluid Level Sensor? ____		
Are exteriors of PCB Transformers locations (excluding grates & manhole covers) marked with ML?		
INSPECTION PROCEDURES		
Were Inspector's credentials presented?		
Was "Notice of Inspection" presented?		
Was "TSCA Inspection Confidentiality Notice" presented?		
Were photographs taken?		
Were samples taken during the inspection?		
Was a "Receipt for Samples" given to the facility representative?		
Were Chain of Custody procedures followed for samples?		
Were samples offered to the facility?		
Were samples given to the facility?		
Was warrant required?		

Reason for Inspection:

Neutral Scheme	____
complaint	____
Informant	____
Agency Referral	____
Follow-up	____
Second Follow-up	____

EPA INSPECTION SUMMARY

An inspection was conducted on February 5, 6, and 7, 1987 by Bruce Long, EPA Region 10, to determine compliance status with the Toxic Substances Control Act. The following observations were made during the inspection.

CENTRAL STORES

I. Annual reports.

   A. Reports do not specify the location of the storage or disposal facility.

   B. Clarify that the quantity under PCB In Containers represents the total weight of material contaminated with PCB. A reference should also be included as to the spill location.

   C. Reports contain removed-from-service dates and other notations in the supporting documentation. This terminology was discussed so that Bruce Long understood that these dates are not the designation for disposal dates which start the storage for disposal and disposal time periods.

   D. Documents are to be kept four or five years after the facilities are no longer used for disposal.

II. Several barrels were stored in the Storeroom 62 receiving area that contained filters from EM&C transformer oil filter trucks. These materials were being stored pending receipt of a waste profile sheet approval form from Chem Securities. Bruce Long suggested that since test data is not available and it is known that the filters contain PCB, a PCB label and date be put on the barrels.

III. Copies of nine Report of Failed Capacitor or Transformer Containing PCBs were taken by Bruce Long. The following problems were noted.

   A. Date placed in storage was missing.

   B. Time in temporary storage exceeded 30 days.

   C. Transformers containing over 500 ppm PCB were temporarily stored in areas not meeting PCB storage criteria.

IV. Bruce Long provided a list of 13 transformers located in food and feed areas and requested PCB concentrations. This information was not available from the computer or the Analytical Lab. Therefore, indications are that these transformers have not been tested.

SELLWOOD SUBSTATION

I. Some capacitors in storage did not appear to be labeled. They were banded together on a pallet. Bruce Long did not request that the banding be taken off. These items were described as being in-store stock.

II. Regulator R272 on a capacitor bank was observed to be leaking. However, it was labeled non-PCB and no sample was taken.

III. Storage for disposal area.

A. Nine transformers were marked with PCB content with over 500 ppm but did not have labels.

B. A barrel containing potential transformers had no date or label. Bruce Long was told that they were being checked to see if they contained liquid and possibly PCBs.

C. Two barrels of unknown material were being stored that had a 1/30/87 sample taken date. The contents of these barrels should be documented since the barrels originally could have contained flammable materials as indicated by the Shell Oil name.

EM&C

I. PCB transformer quarterly inspection reports for 1985, 1986, and 1987 were reviewed. The 1985 third quarter inspection reports for Sycan, Fort Rock, and Sand Springs were not available. These inspections were conducted on October 3 and 4, which fall into the fourth quarter. During 1985 four inspections were conducted at all sites except Sycan, which was not accessible because of snow.

STATION L

I. Bruce Long requested verification of how long the residual PCB material from the Sun Ohio oil processing of PCB-contaminated oil was stored on site. He was given copies of hazardous waste manifests.

II. Hauling of PCB-contaminated material to Chem Securities for disposal in trucks used for other purposes was reviewed. The trucks are not tested because the disposal material is completely enclosed in plastic and disposed of without coming into contact with the truck.

III. The January 28, 1986 oil spill cleanup in the tank farm was noted, including labels and barriers. Water near the drain which leads to the river was observed to have a very slight sheen. The water was not being drained at the time; however, absorbent pads were located on top of the drain to ensure that no sheen would be released into the river.

IV. The oil storage tank was labeled; however, a date when the first material was put into the tank was not on the label. This information was obtained from the log. Bruce Long was given copies of the tank log.

EQUIPMENT STORAGE YARD

I. Regulator No. 30234 had both PCB and PCB-contaminated labels.

II. Transformer No. 10160 had an oil stain indicating a leak.

III. Bruce Long requested the PCB content for the two previous pieces of equipment and circuit breaker No. 20227. These pieces of equipment all contained less than 50 ppm PCB.

IV. Several pieces of equipment were marked with an "X" and "junk". It was explained that this did not constitute designation for disposal since the equipment could be sold for reuse.

TRANSFORMER SHOP

I. The date of designation for disposal was defined as the date when both electrical and PCB tests were completed and the determination made that it will not be reused. Bruce Long noted a bullet hole in the top of transformer No. 19537, and he was told that the above definition still applied.

II. Two vary old transformers were noted in the yard which did not have PGE numbers. They had not been tested yet, but they were both oil filled (Allis Chalmers No. 2298942, Kuhlman No. 946754).

ENVIRONMENTAL SCIENCES

I. Letters of notification concerning PCB transformers in or near buildings were reviewed.

II. Oil spill report documentation was reviewed for the following sites:

A. McLary Road, 12/12/85.

B. Station L, 4/30/86.

C. Bell Street, 5/22/86.

D. Southeast 145th, 6/1/86.

E. Oregonian, 6/30/86.

F. Hiawatha, 11/24/86.

CLOSING COMMENTS

I. Greater than 500 ppm PCB material can only be stored in an area meeting storage for disposal requirements.

II. Dates designating disposal of equipment should be clearly identifiable.

III. Drums and transformers in storage for disposal area did not have PCB labels.

IV. Storage containers for oil to be reclaimed should be dated when the initial contents are put in.

V. EPA will clarify whether storage for disposal criteria should be applied to areas containing recyclable material.

6-2562f

2-19-87

EPA TSCA Compliance Inspection
Potential Violations

1. Barrels stored in Storeroom 62 containing filters used to clean PCB contaminated oil were unlabeled. Contents untested however material will be sent to Chem Securities. Barrels should have a PCB label.

2. Report of Failed Capacitor or Transformer Containing PCB:
   - 2 missing date placed into storage (4910, 5673)
   - 2 time in Temporary storage exceeded 30 days (6081, 6082)
   - 6 transformers containing over 500 ppm temporarily stored in areas not meeting PCB storage criteria (6081, 6082, 4741, 6094, 6098, 6088)
   - Copies of the above documents were taken by EPA
   - 6081 & 6082 should not receive violations in both categories

3. Quarterly PCB Transformer inspection reports
   - Reports for Sycan, Foot Rock & Sand Springs not available for 3rd quarter 1985

4. Selwood Storage for Disposal

- Nine PCB transformers not labeled
- Barrel of Potential Transformers unlabeled
- Two barrels of unknown material in storage area

5. Station L

- Storage tank had label but no date showing when material was initially put in
- 3 pieces of equipment were leaking oil, however they are under 50 ppm PCB

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WASHINGTON 98101

SEP 30 1987

RECEIVED
OCT 5 1987

ROBERT H. SHORT, Chairman
WILLIAM J. LINDBLAD, PRESIDENT

REPLY TO ATTN OF: SO-125

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Copies to
Management Cmte
K. Davis
F. Lamoureaux

Robert Short, Chief Executive Officer
Portland General Electric Company
121 S.W. Salmon
Portland, Oregon 97204

Re: Toxic Substances Control Act
Docket No. 1087-09-19-2615

Dear Mr. Short:

Enclosed you will find a Complaint and Notice of Opportunity for Hearing. A copy of the regulations and Rules of Practice applicable to this proceeding are also enclosed. You are hereby advised to read this document carefully and communicate your answer within the time limit specified.

The Complaint alleges that your company, Portland General Electric Company (PGE), violated the recordkeeping, use authorizations, marking, storage, and disposal provisions of the PCB Regulations issued pursuant to the Toxic Substances Control Act. Accordingly, it is of considerable importance that you attend to this matter forthwith.

As well as the violations cited in the complaint, the inspector noted additional circumstances that require your attention:

Recordkeeping

PGE's PCB recordkeeping system appears to be seriously deficient. Several practices observed during the inspection have the high likelihood of causing major errors in PGE's PCB tracking and compliance program.

1) EPA's inspector discovered that Failure Reports, the chief instrument for tracking individual pieces of equipment removed from service, are filed only by the date that the equipment is sent for permanent disposal. Without some system of cross-referencing, it is impossible to check an item's disposition unless the disposal date is known.

2) Several of the items and containers located in PGE's designated storage for disposal facility did not appear on the facility's log or on Failure Reports. Some of these were apparently slated for disposal, but others were stored for reuse, or unidentified. While a small business operation might be able to

keep track of material kept in a multipurpose storage area, the presence of such a mix in PGE's storage for disposal area almost guarantees that recordkeeping errors will occur. The failure to provide a dependable link between stored items and log entries can also lead to problems like the one cited in Violation 11--items that appear in the log but are nowhere to be found in the storage facility itself.

3) Apparently, PGE routinely stores items temporarily at other locations beside the designated storage facility. Such temporary storage is allowed for certain items under specified conditions, but PGE does not keep records on this temporary storage. The complaint notes temporary storage violations that occurred at Central Stores (Violations 7 and 9). Without some means of providing accountability for temporary storage, other violations are likely to occur.

4) The inspector was unable to obtain information on PCBs generated at the Faraday Hydroelectric Plant and the Oak Grove, Oregon City, and Sullivan Yards. While it is acceptable for these facilities to maintain records separately, the fact that many of PGE's PCB activities are centralized may lead to confusion on the part of the operators of individual facilities, and subsequent commission of violations.

5) The inspector noted that PGE was unable to identify with confidence the location and status of in-service equipment. (A transformer observed in use at Newberg just before the inspection was placed by PGE's inventory system in Oregon City in stock.) While the PCB regulations do not require that facilities submit lists of their inventories to EPA, the lack of such a complete, verified inventory makes it nearly impossible for a facility to comply with some aspects of the regulations including the Fire Rule (Violation 4).

6) The inspector reviewed quarterly inspection logs maintained at the Hawthorne Building for in-service PCB Transformers; while the log checklist provides that leaks are to be noted, the responses to leaks are documented in separate cleanup reports which are not kept at the Hawthorne Building. Documentation of response to leaks is a requirement of quarterly inspections. These separate cleanup reports must be maintained with and as a part of the quarterly inspections.

Marking

The inspector reported that equipment brought in for servicing is routinely tested for PCB content partly because identifications and labeling by field personnel have been found to be unreliable. PGE must take immediate steps to assure that Non-PCB labels are not being

applied to equipment that has not been verified as containing less than 50 ppm PCB. The improper application of a Non-PCB label is far worse that leaving a piece of equipment unmarked completely. An unmarked piece of equipment will at least be treated cautiously by servicing personnel or even the general public as being an unknown, but a false label can inspire unwarranted confidence. Knowing application of false labels constitutes a criminal offense. Please note also that: 1) the regulatory designation of non-PCB equipment (less than 50 ppm PCB) is not necessarily the same as the identification of equipment as containing no PCBs (less than 2 ppm PCB), and 2) most uses of PCB oil in the range of 2-50 ppm---including recycling or burning---are effectively regulated, prohibited, or restricted.

Transformer Yard Storage Area

EPA's inspector was told that transformers in storage at the shop are not initially inspected because they are considered to be in-use until they are either serviced or designated for disposal. This is an extremely risky omission for PGE. While PCB-contaminated equipment in service does not require quarterly inspections like PCB Transformers, PGE is still liable for disposal violations if such equipment leaks. It is our experience that areas of stored electrical equipment almost invariably include leaking items; in fact, the most commonly cited PCB disposal violations are those which occur in such areas. If a stored, leaking transformer is also discovered to contain over 500 ppm PCB, the facility may be liable for a quarterly inspection violation as well as a disposal violation.

L-Yard Storage Area

Representatives of PGE requested that EPA provide to them a written statement on what we consider to be the regulatory status or classification of the bulk storage area at the L-Yard. We understand that PGE uses the large storage tanks there to accumulate oils contaminated with PCBs for decontamination, and that PGE does not consider this a storage for disposal area but a recycling operation. This is not a correct designation. While the oil matrix will be reused, the PCBs contained in the oil are slated for the termination of their useful life through the decontamination process. The oil stored here may be recycled, but the PCBs are in storage for disposal. Thus, we consider this area to be a storage for disposal area, and subject to all the associated regulatory requirements. The PCB Regulations concerning storage for disposal [40 CFR 761.65(c)(7)] provide that containers, such as bulk storage tanks, used for the storage of PCBs may be larger that those identified in the regulations as meeting DOT specifications if certain conditions are met. These conditions, requiring equivalent design strength and the preparation of a Spill Prevention Control and Countermeasure (SPCC) plan, are designed to take the place of the roof, walls, and

containment criteria specified for a designated storage for disposal facility (EPA Headquarters policy interpretation). The regulations additionally require the maintenance of batch records for such larger containers.

You are allowed twenty (20) days to formally answer the complaint unless you request and receive a written extension of time. However, we would like to informally discuss the alleged violations and proposed penalties. Such discussions may result in settlement which would make the filing of a formal answer unnecessary.

David Dabroski, Attorney, is knowledgeable about this subject and can be reached at (206) 442-1476.

Sincerely,

By/Anita J. Frankel, Chief
Pesticides and Toxic Substances Branch

Enclosures

cc: John A. Foley, EPA Headquarters

BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 10, 1200 Sixth Avenue, SO-125
Seattle, Washington 98101

THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, Complainant, vs. Portland General Electric Company Respondent(s).	)	NO. 1087-09-19-2615 NOTICE OF LEGAL PROCEEDINGS; NOTICE OF EPA COMPLAINT; AND NOTICE OF OPPORTUNITY FOR HEARING, AND FOR SETTLEMENT MEETING

THE REGIONAL ADMINISTRATOR EPA REGION 10 TO THE FOLLOWING RESPONDENT:

Portland General Electric Company

121 S.W. Salmon

Portland, Oregon 97204

YOU ARE HEREBY GIVEN NOTICE AS FOLLOWS:

1. Administrative proceedings have been commenced against you by the U.S. Environmental Protection Agency ("EPA").

2. You are hereby NOTIFIED of, and served with, the ATTACHED TRUE COPY of a COMPLAINT filed in these proceedings. It explains EPA's claims for civil penalties proposed to be adjudged against you.

3. The signed original of the attached COMPLAINT is filed with the EPA Regional Hearing Clerk, SO-125, Park Place Bldg., 1200 Sixth Avenue, Seattle, King County, Washington, 98101, Phone No. (206) 442-1141.

4. The ATTACHED COMPLAINT is a claim by EPA for civil penalties to be assessed against you. Adjudicative proceedings to that end are controlled by the "Consolidated Rules of Practice" (copy attached to the Complaint) appearing in Title 40, Code of Federal Regulations, Part 22.

5. You have a RIGHT TO A HEARING BEFORE AN ADMINISTRATIVE LAW JUDGE:

A. To contest any material allegation of the attached penalty COMPLAINT which you genuinely deny; and/or

B. To contest the amount and appropriateness of the civil penalties proposed in the COMPLAINT.

However, TO OBTAIN A HEARING YOU MUST FILE A WRITTEN RESPONSE to the COMPLAINT called an "Answer."

6. YOU HAVE ONLY TWENTY (20) CALENDAR DAYS (if you choose to respond) from the day you receive this Notice within which to file a WRITTEN RESPONSE to the attached COMPLAINT. Such a written response or "Answer" must be filed by having it DELIVERED ON TIME to the EPA Hearing Clerk (address in paragraph 3). Copies of all papers filed by you must be delivered at the same time (by mail or otherwise) to the EPA attorney whose name appears below in paragraph 10.

7. ANY SUCH WRITTEN RESPONSE YOU FILE TO THE COMPLAINT MUST:

A. Request a hearing on the Complaint (or your right to request a hearing on the Complaint is deemed waived); and

B. Contain clear and direct admissions, denials, and/or explanations with respect to each of the allegations of the Complaint; and

C. Contain a definite statement of any facts which you contend constitute grounds for defense against the penalty liability stated in the Complaint; and

D. Contain a concise statement of all material facts relating to allegations in the Complaint which you intend to place in issue at a hearing.

8. IF YOU FILE A LATE WRITTEN RESPONSE, OR IF YOU OMIT ENTIRELY FILING ANY WRITTEN RESPONSE, YOU ARE SUBJECT TO THE ENTRY OF AN ORDER OF DEFAULT on the Complaint. After an order of default, penalties can be adjudged and imposed on you without any further notice to you.

9. AN INFORMAL SETTLEMENT MEETING can be held at your request. You may discuss there:

A. Whether or not the violations alleged truly occurred; and/or

B. The amount and appropriateness of any civil penalty considering: the size of your business, the gravity of any such violations, the effect of civil penalties on your ability to continue in business, and any other appropriate factors.

Such a meeting might resolve matters by a settlement which would make a hearing unnecessary.

10. In order to arrange an informal settlement meeting you must contact the following EPA attorney at (206) 442-1476, 1200 Sixth Avenue SO-125, Seattle, Washington 98101: David Dabroski, not later than twenty (20) calendar days from receipt hereof.

11. PLEASE TAKE NOTICE that an EXTENSION OF TIME to make and file your written response may be negotiated with the EPA attorney named above. If an agreement is reached to extend time, a written stipulation and an agreed order will be entered in accordance with 40 C.F.R. §22.16(c).

ISSUED AT SEATTLE this 30th day of September, 1987.

for/ANITA J. FRANKEL, Chief
Pesticides and Toxic Substances Branch

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
BEFORE THE REGIONAL ADMINISTRATOR
Region 10
Seattle, Washington

In the Matter of:	)	DOCKET NO. 1087-09-19-2615
	)	
Portland General Electric Company,	)	
	)	COMPLAINT
Respondent.	)	
	)	

I.

JURISDICTION

1. This is an administrative action instituted pursuant to Section 16(a) of the Toxic Substances Control Act (hereinafter "TSCA"), 15 U.S.C. §2615(a), for the assessment of a civil penalty. The complainant is Region 10, United States Environmental Protection Agency (hereinafter "EPA"). Complainant has reason to believe that the above-named respondent has violated Federal regulations addressing the use and/or disposal of polychlorinated biphenyls (PCBs) (40 C.F.R. Part 761 promulgated under Section 6 of TSCA), and thereby has violated Section 15 of TSCA, 15 U.S.C. §2614.

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II.

FINDINGS AND VIOLATIONS

2. On February 4-6, 1987, an EPA inspection was performed at facilities of Portland General Electric Company. The purpose of the inspection was to determine compliance with the TSCA, 15 U.S.C. §2601, et seq., and specifically the PCB regulations pursuant to 40 C.F.R. Part 761. The inspection disclosed the following violations:

3. Regulation - Records & Monitoring

40 C.F.R. 761.180(a) requires that, beginning July 2, 1978, facilities using or storing at one time at least 45 kilograms (99.4 pounds) of PCBs contained in PCB Container(s), or one or more PCB Transformers, or 50 or more PCB Large High or Low Voltage Capacitors, develop and maintain records on the disposition of the PCBs and PCB Items. The records shall form the basis of an annual document prepared by July 1, covering the previous calendar year. The annual document shall include:

1) a) The dates when PCBs and PCB Items are:

i) removed from service,

ii) placed into storage for disposal,

iii) placed into transport for disposal;

b) the quantities of PCBs and PCB Items removed from service including:

i) total weight in kilograms of PCBs contained in PCB Containers, with the identification of content in the containers,

Form OBD-183
12-8-76 DOJ

ii) total number of PCB Transformers and total weight in kilograms of PCBs contained in the transformers,

iii) total number of PCB Large High or Low Voltage Capacitors;

c) the location of the initial disposal or storage facility for PCBs and PCB Items removed from service;

2) Total quantities of PCBs and PCB Items remaining in service at the end of the calendar year, including:

a) total weight in kilograms of any PCBs and PCB Items in PCB Containers, with the identification of content in the container,

b) total number of PCB Transformers and total weight in kilograms of PCBs in the transformers,

c) total number of PCB Large High or Low Voltage Capacitors.

4. Violation One

An examination of the annual reports of 1982, 1983, and 1984 revealed inaccuracies in the numbers of PCB Transformers reported removed and remaining in service.

5. Violation Two

The 1985 annual report showed a discrepancy between the month (September) that material was placed into storage for disposal, and the month (October) that the material was removed from service.

6. Regulation - Use Authorizations (Quarterly Inspections)

40 C.F.R. 761.30(a)(1)(ix)(x)(xii) requires that owners of PCB Transformers in use or stored for reuse:

a) visually inspect each PCB Transformer at least once every three months;

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12-8-76 DOJ

b) record all leaks and initiate cleanup within 48 hours of a leak's being observed; and

c) maintain records of the inspections and servicing history.

The use of PCB Transformers, as outlined in 40 C.F.R. Part 761, is allowed only if the persons using that equipment comply with these steps.

7. Regulation - Use Authorizations (Annual Inspections)

40 C.F.R. 761.30(a)(1)(xiii) allows a reduced visual inspection frequency of once every twelve months only if containment equaling 100% of the liquid volume in the transformer is present, or if the transformer has been tested and found to contain less than 60,000 ppm PCB.

8. Violation Three

The quarterly inspection report records for PCB Transformers were not complete. Some substation reports were missing for certain quarters. Inspection reports for some PCB Transformers were missing altogether.

9. Regulation - Use Authorizations (Fire Rule)

40 C.F.R. 761.30(a)(1)(vi)(vii) requires that all PCB Transformers in use or stored for reuse be registered with local fire response authorities. PCB Transformers located in or near commercial buildings must be registered with the building owners.

10. Violation Four

PGE's annual report for 1985 noted 63 PCB Transformers in service. However, the inspector was only shown 10 letters of notification to fire districts, and these letters did not clearly correlate with all of the 63 in-service PCB Transformers.

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11. Regulation - Use Authorizations (Reclassification)

40 C.F.R. 761.30(a)(2)(v) provides that PCB Transformers may be reclassified as PCB-contaminated Transformers, and that PCB-contaminated Transformers may be reclassified as Non-PCB Transformers if:

1) the transformer is drained and then retrofilled with lower concentration dielectric fluid,

2) the transformer is placed in-service (or an approved simulation) for a minimum of three months, and

3) the transformer is confirmed by subsequent testing to meet the under-500 ppm or under-50 ppm classification requirement.

12. Violation Five

Up to the date of the EPA inspection, PGE routinely tested and retrofilled transformers that came into its transformer shop, but did not track and retest the retrofilled transformers after three months of use. PGE's procedure of immediate reclassification of electrical equipment upon servicing did not comply with the regulatory requirements. Equipment reclassified under this system was incorrectly marked and recorded.

13. Regulation - Marking

40 C.F.R. 761.40 requires that all PCB Containers, PCB Transformers, Large PCB Capacitors, and PCB storage for disposal areas be marked in accordance with 40 C.F.R. 761.45. In general, a 6 inch by 6 inch PCB label is required, although the label may be reduced in size proportionately to a minimum of 2 inches by 2 inches for equipment too small to accommodate the standard 6 inch by 6 inch label.

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14. Violation Six

The inspector noted the following unmarked items in PGE's storage for disposal area: 50-60 PCB capacitors, four drained PCB Transformers, six undrained PCB Transformers, three covered 55-gallons drums, and a potential transformer inside an open 55-gallon drum.

15. Violation Seven

PCB-contaminated material in temporary storage at the Central Stores area was contained in eight unmarked 55-gallon drums. The area where the drums were stored was also unmarked.

20 lbs/barrell

16. Regulation - Storage (Dating)

40 C.F.R. 761.65(c)(8) requires that PCB Articles and PCB Containers be dated on the articles or containers when they are placed in storage.

17. Violation Eight

Three covered 55-gallon drums and a potential transformer inside an open 55-gallon drum, located in the storage for disposal facility, were not dated with the date they were placed into storage.

18. Regulation - Storage

40 C.F.R. 761.65(b) requires that any facility used for the storage of PCBs and PCB Items designated for disposal have:

1) adequate walls and roof to prevent rainwater from reaching the stored PCBs and PCB Items;

2) adequate floor constructed of continuous smooth and impervious materials with a continuous curbing a minimum six inches high; and

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3) no drain valves, floor drains and other openings that would permit liquids to flow from curbed area.

40 C.F.R. 761.65(c) allows temporary storage for certain items in an area that does not comply with the requirements of 761.65(b) for up to thirty days from the date of their removal from service provided that:

1) a notation is attached indicating the date the item was removed from service,

2) stored items and articles are not leaking, or if leaking are properly containerized with absorbent, and

3) a Spill Prevention, Control, and Countermeasure plan has been prepared for any area used for the temporary storage of liquids containing less than 500 ppm PCBs. (Temporary storage is not allowed for PCB liquids at concentrations of 500 ppm or greater.)

19. Violation Nine

Drums in temporary storage at Central Stores were not dated with the date their contents were removed from service.

20. Regulation - Disposal (Items in Storage)

40 C.F.R. 761.65(c)(5) requires that all PCB Articles and Containers in storage be checked for leaks at least once every 30 days. Any leaking PCB Articles or Containers and their contents shall be transferred immediately to properly marked non-leaking containers. Any spilled or leaked materials shall be immediately cleaned up and the PCB contaminated materials shall be disposed of in accordance with 761.60(a)(4). Spills and other uncontrolled discharges of PCBs at concentrations of 50 ppm or greater constitute the disposal of PCBs. (40 C.F.R. 761.60(d)).

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21. Violation Ten

A leaking PCB Transformer in the storage for disposal facility was wrapped in plastic. The transformer was not cleaned up or properly containerized in accordance with the regulations.

22. Regulation - Disposal

40 C.F.R. 761.60(a) requires that liquids containing greater than 50 ppm PCB be disposed of in an incinerator which complies with 40 C.F.R. 761.70, unless those liquids fall within the regulatory exceptions listed in 40 C.F.R. 761.60(a)(2), (3), (4), or (5).

23. Violation Eleven

PGE Failure Reports for five drained PCB Transformers observed in the storage for disposal facility indicate that the PCB dielectric fluid from the transformers had been drained into two drums identified as #6114 and #6115. These drums were not in the storage for disposal facility and no notation was found that the drums had been shipped off-site for disposal in accordance with the regulations.

III.

PROPOSED CIVIL PENALTY

24. Section 16 of TSCA, 15 U.S.C. §2615, and the regulations promulgated thereunder, 40 C.F.R. §761, et seq., authorize a civil penalty of up to $25,000.00 per day for each violation of TSCA. Based on the facts given in Section II above, the nature, circumstances, extent and gravity of the above-cited violations, and degree of culpability, the following penalties are hereby proposed:

Form OBD-183

	Regulation	Requirement	Penalty Amount
1.	40 CFR 761.180(a)	Recordkeeping	$ 200
2.	40 CFR 761.180(a)	Recordkeeping	200
3.	40 CFR 761.30(a)(1)	Use Authorizations	20,000
4.	40 CFR 761.30(a)(1)	Use Authorizations	20,000
5.	40 CFR 761.30(a)(2)	Use Authorizations	20,000
6.	40 CFR 761.40	Marking	3,000
7.	40 CFR 761.40	Marking	10,000
8.	40 CFR 761.65(c)(8)	Storage	500
9.	40 CFR 761.65(c)	Storage	3,000
10.	40 CFR 761.65(c)(5)	Disposal	1,250
11.	40 CFR 761.60(a)	Disposal	5,000
		Total	$ 83,150

25. Payment of such penalty shall be by check made payable to the United States Treasurer, remitted to the following:

Environmental Protection Agency, Region 10
(Regional Hearing Clerk)
P.O. Box 360903M
Pittsburgh, Pennsylvania 15251

with a copy sent to:

Regional Hearing Clerk
Office of Regional Counsel
Environmental Protection Agency
1200 Sixth Avenue, SO-125
Seattle, Washington 98101

ISSUED AT SEATTLE this 30th day of September, 1987.

for ANITA J. FRANKEL, Chief
Pesticides and Toxic Substances Branch

Form OBD-183
12-8-76 DOJ

Portland General Electric Company
Legal Department
1300 Willamette Center
121 S.W. Salmon Street, Portland, Oregon 97204
(503) 220-3000

Senior Vice President and
General Counsel
James W. Durham

Associate General Counsel:
James C. L. Baxendale
Douglass M. Hamilton

Assistant General Counsel:
Mary Ellen Eckhardt
Roger K. Harris
Ronald W. Johnson
Julie A. Keil
Steven F. McCarrel
Pamela Grace Rapp
J. Mack Shively
S. Bradley Van Cleve
Lavinia Gordon Whitol

Warren Hastings
(1924-1986)

October 29, 1987

Joan Shirley
US Environmental
Protection Agency
Region 10
1200 6th Avenue
Seattle, Washington 98101

Re: Toxic Substances Control Act Complaint
Docket No. 1087-09-19-2615
Our File No.: 05GB-040

Dear Ms. Shirley:

This letter is written in response to the above cited Complaint and Notice of Opportunity for Hearing received by Portland General Electric Company (PGE). As we discussed by phone, PGE and EPA have stipulated that the time for filing PGE's Answer in the above case has been extended until November 24, 1987.

We believe that this letter will clarify certain facts and resolve a number of the violations alleged in EPA's Complaint issued as a result of EPA's February 4-6, 1987 inspection.

Violation No. 1.

The EPA Complaint alleges that the Annual Reports for 1982, 1983 and 1984 revealed inaccuracies in the number of PCB transformers removed and remaining in service.

PGE's Annual Reports for the years cited contained the actual number of transformers removed from service and remaining in service at the end of the calendar year as required by 40 CFR 761.180(a). The numbers may have appeared to the inspector to be "inaccurate" because the Annual Reports did not reflect the number of transformers added to PGE's system during the year in question. These transformers were added as a result of discovery of PCB transformers upon servicing. Documentation showing the numbers of PCB

transformers added to PGE's system during the subject years are available for EPA's review.

Violation No. 2.

The Complaint alleges that the 1985 Annual Report showed a discrepancy between the month (September) that the material was placed into storage for disposal, and the month (October) that the material was removed from service.

PGE's investigation of Violation 2 reveals that page 6 of the 1985 Amended Annual Report contained a typographical error. The date the five bushings were removed from service was correct (10-4-85 to 10-7-85). The date the bushings were placed in storage was incorrectly listed as 9-10-85. Supporting documents (Failed Capacitor Reports) show that the date the bushings were placed in storage was actually October 7, 1985. The date was simply incorrectly transferred from the Failed Capacitor Report to the Annual Report.

Violation No. 3.

EPA's Complaint alleges that the quarterly inspection report records for PCB transformers were not complete. The Violation states that "some substation reports were missing for certain quarters. Inspection reports for some PCB transformers were missing altogether."

PGE requests that additional information be provided regarding this Violation. The allegations as stated in the Complaint provide neither the date nor the location of the allegedly defective inspection reports. PGE believes that it has complied with the intent of the inspection rule and is prepared to provide supporting documentation when the dates and locations of the reports are furnished to us.

Violation No. 4.

This Violation alleges that PGE failed to register all of its PCB transformers in use or stored for reuse with local fire response authorities.

PGE can document that it sent notification letters in all cases where a local fire response authority existed. PCB transformers at three locations (Ft. Rock, Sycan, and Sand Springs) are in extremely remote rural areas where no local

fire response authority exists. For that reason, no notification letters were sent.

Violation No. 5.

Violation 5 alleges that "PGE's procedure of immediate reclassification of electrical equipment upon servicing did not comply with the regulatory requirements". 40 CFR 761.30(a)(2)(v) provides a procedure for reclassification of PCB transformers and PCB contaminated transformers.

PGE routinely tests and retrofills transformers without tracking and retesting the retrofilled transformers. However, PGE has not, as alleged in Violation 5, reclassified these transformers as PCB contaminated or non-PCB. These retrofilled transformers are treated and marked as if they had not been retrofilled because the procedure required by the reclassification regulation is extremely difficult to comply with. PGE places the mark "R" on retrofilled transformers, but continues to treat these transformers as they were originally tested before they were retrofilled. The language of 40 CFR 761.30(a)(2)(5) is discretionary and provides that PCB transformers "may" be reclassified, not that they must be reclassified. The violation also states that "equipment reclassified under the system was incorrectly marked and recorded". PGE disputes this allegation.

Violation No. 6 and Violation No. 8.

These two Violations allege that PGE failed to follow marking and dating requirements pursuant to the PCB regulations. Violation 6 alleges that certain items in PGE's storage for disposal area were not marked properly. Violation 8 alleges that certain of the items mentioned in Violation 6 were also not dated as required by the regulations.

Although PGE believes that certain items listed in Violation 6 were marked correctly, PGE admits that some equipment was improperly marked and dated. PGE has investigated its procedures for marking, labeling and dating PCB contaminated material at the time it is placed into storage for disposal. PGE is drafting new procedures to assure that employees charged with marking, labeling and dating do so according to regulation.

Violation No. 7 and Violation No. 9.

These two Violations also center on marking and dating violations. Violation 7 alleges that the PCB contaminated material in temporary storage was contained in eight unmarked fifty-five gallon drums and that the area where the drums were stored was unmarked.

Violation 9 alleges that these same drums were not dated with the date their contents were removed from service in accordance with 40 CFR 761.65(b). As in Violations 6 and 8, PGE admits that certain marking and dating requirements were not met as required by regulation. In response to these violations, PGE has investigated its procedures for marking and dating PCB contaminated material and is drafting new procedures to assure that employees comply with these regulations.

PGE requests additional information concerning how the amount of the fine was determined for Violations 7 and 9.

Violation No. 10.

This Violation alleges that a leaking PCB transformer in the storage-for-disposal facility was not cleaned up or properly containerized in accordance with 40 CFR 761.60(a)(4).

PGE placed the leaking PCB transformer immediately in a ten mil plastic bag because appropriate size containers were not available. This procedure has been successful in preventing PCB spills into the environment. The referenced item was in a fully protected storage-for-disposal area waiting to be drained and cleaned up for shipment prior to disposal. PGE believes that it met the intent of the regulation and did not pose any risk to the environment through this procedure.

Violation No. 11.

Violation 11 alleges that two drums identified as No. 6114 and 6115 containing PCB dielectric fluid from drained transformers were not in the storage-for-disposal facility and no notation was found showing that the drums had been shipped off-site for disposal in accordance with regulations.

PGE records indicate that the drums in questions, No. 6114 and 6115, were not at the storage-for-disposal facility at the time of the February inspection because these drums had been

shipped to Ensco on December 10, 1986 for disposal. PGE will make records available to EPA which document the fact that these drums were properly shipped off-site for disposal in accordance with the regulations.

This letter is written for settlement purposes only and nothing contained herein may be used as evidence in any legal proceeding. PGE does not, by this letter, waive any of its rights relating to the claim which is the subject of this proceeding.

I look forward to discussing these issues during our conference call on November 5 at 9:30 a.m. and at a meeting with EPA scheduled for November 13 at 10:00 a.m.

Very truly yours,

Lavinia G. Wihtol

Lavinia G. Wihtol

LGW/llm

bc: Floyd Bechtel
John Chapman
Ken Davis
Jim Durham
Rick Hess
Fred Lamoureaux
George Normine
Dennis Norton

ES-960-87M
GEN GOV REL 8B

MEMORANDUM

TO: File

FROM: Dennis Norton

DATE: November 16, 1987

SUBJECT: TSCA Violation Meeting With EPA

Attendees: EPA - Joan Shirley, Legal Counsel
Elaine Barrick, Case Reviewer
PGE - Lavinia Wihtol
George Normine
Dennis Norton

A meeting was held on November 13, 1987 with representatives of EPA at their offices in Seattle to review the TSCA violations alleged in EPA's September 30, 1987 letter. During 3-1/2 hours of discussion with EPA, PGE's procedures for handling PCB and PCB-contaminated equipment were reviewed. PGE's activities beyond the scope of TSCA regulations, which minimize the release of PCB into the environment, were emphasized. The following provides a review of each violation and its current status.

Violation 1 Penalty - $200

The numbers of PCB transformers in the annual reports for 1982, 1983, and 1984 appeared to be inaccurate because additional PCB transformers were identified and added each year. Comments will be included in the future annual reports which identify the number of additional PCB transformers identified so that the total from year to year can be reconciled.

Disposition: Penalty dismissed.

Violation 2 Penalty - $200

A typographical error appeared in the 1985 annual report which indicated that material was placed into storage for disposal before it was removed from service. The Reports of Failed Capacitor or Transformer Containing PCBs were shown which verified that a typographical error had been made in the report summary.

Disposition: Penalty dismissed.

Violation 3 Penalty - $20,000

Substation logs were provided to EPA showing that each of the substations containing PCB transformers had been inspected for the quarters previously indicated missing in PGE records. The nature of these inspections is such that the PCB transformers would be inspected for leaks each time the station is visited. PGE contended that this is not a use violation which would justify a $20,000 fine. The PCB transformers were inspected; however, the paperwork was not completed during some periods. We recommended that this is a reporting violation (Level 6), which should result in a significant reduction of this penalty.

Disposition: EPA will review penalty assessment.

Violation 4 Penalty - $20,000

Notification to fire districts concerning PCB transformers were made for 26 PCB transformers in 1985. Notification was not made for 37 transformers located at Ft. Rock, Sand Springs, and Sycan. Information was presented to EPA which indicated that there is no primary fire district response agency in the vicinity of these substations because of their remote locations. A summary of the notification and an example letter was provided to EPA. They additionally requested copies of all notification letters.

Disposition: EPA should eliminate penalty subsequent to receipt of letters of notification.

Violation 5 Penalty - $20,000

During the inspection EPA noted that transformers had non-PCB labels applied to them after being refurbished and painted. From this observation, they assumed that transformers were being reclassified. PGE provided an affidavit from Earl Wood stating that we have not reclassified transformers. The reason for this is that the reclassification requirements of time and temperature are very difficult to achieve. EPA is aware of this burdensome procedure. It was explained that if non-PCB labels were put on transformers after they were refurbished, it would only have been because they were less than 50 ppm PCB before being retrofilled.

Disposition: EPA requested additional information on PGE's transformer refurbishing procedures.

Violation 6 and 8 Penalty - $3,500

During the inspection several items at the Sellwood storage-for-disposal facility were not labeled and dated. EPA was shown checklists that are currently being used by Storeroom 62 personnel so all PCB and PCB-contaminated equipment to be disposed of will have appropriate labels and dates.

Disposition: Penalty - $3,500.

Violation 7 and 9 Penalty - $13,000

The eight unmarked 55-gal. drums at the Central storage area contained filters used in cleaning transformer oil. The assessment of this penalty was based on volume of the 55-gal. drums. We recommended that the assessment should be reviewed, since the filters themselves weigh approximately 1 lb and about 15 filters can be put in a drum. If assessed on a weight basis, the penalty amount should be reduced. EPA suggested that the areas where PCB-contaminated material are stored should be marked and labeled. EPA requested further information on the exact weight and number of filters that could be placed in a barrel.

Disposition: EPA to review penalty based on additional information provided by PGE.

Violation 10 Penalty - $1,250

A PCB transformer was contained in a 10-mil plastic bag at Sellwood storage-for-disposal facility. It was explained that PGE's procedure is to clean up the transformer leak and then place it in a plastic bag and in a pan to prevent any spillage of PCB into the environment. It was agreed that a plastic bag does not meet the requirements for a leaking PCB transformer container. EPA commented that after seeing the bag itself, it was worth the effort to bring it in and to explain the circumstance of its use.

Disposition: Penalty dismissed.

Violation 11 Penalty - $5,000

Reports of Failed Capacitor or Transformer Containing PCBs were shown to EPA which demonstrated that the PCB dielectric fluid from the transformers at Sellwood had been pumped into two drums. These drums had been shipped for disposal prior to the inspection even though the transformers were still in storage. The inspector did not ask for a record concerning these drums during the inspection. EPA requested letters showing certification for destruction for these barrels.

Disposition: Penalty should be dismissed pending EPA's receipt of the certification of destruction.

EPA said that they were very pleased with the supplementary material presented concerning the violations (see attached). They suggested that there are mitigating activities that could be agreed to in place of portions of the penalty. As examples they mentioned a PCB handling article was written for the Warehouse Journal and a talk at a radio station has been done in the past. Some of the things that PGE is currently doing to reduce the risk of PCB going into the environment were discussed. It would be appropriate to point these things out in the response to EPA concerning the pending violation assessments.

The following is a summary of the PCB violation penalty assessment:

Penalty	Penalty Dismissed	Unresolved
$3,500	$26,600	$53,000

Action Items

Violation 1 - Explain the number of additional PCB transformers found during the year in the annual report so that this number can be reconciled with the previous year.

Violation 3 - Revise inspection procedures to include a PCB inspection check-off on the record during each site visit.

Violation 4 - Send EPA copies of all PCB transformer location letters of notification to fire districts.

Violation 5 - Send EPA information concerning the procedures for retrofilling PCB-contaminated transformers.

Violation 7 - Send EPA information concerning the weight and quantity of filters that can be placed in a 55-gal. drum.

Violation 11 - Send EPA a copy of the certificate of destruction for the oil contained in drums identified as 6114 and 6115.

es 1276

c: Floyd Bechtel
John Chapman
Ken Davis
Jim Durham
Rick Hess
Walt Higgins
Bill June
Fred Lamoureaux
George Normine
Lavinia Wihtol
Earl Wood

ES-948-87T
GEN GOV REL 8D

TELECON

TO: Dennis Norton

FROM: Marv Crocker, Fremont National Forest

DATE: November 10, 1987

TIME: 2:30 p.m.

SUBJECT: Sycan Substation

The responsibility for responding to a fire in the Sycan Substation was discussed. Marv Crocker said that Forest Service personnel are not trained in fighting fires in substations. If the structure requires fire control the Forest Service would contact PGE.

DMN:slc

es 1266

Portland General Electric Company

December 28, 1987
ES-011-87L
GEN GOV REL 8

Joan C. Shirley
Assistant Regional Counsel
US Environmental Protection Agency
Region 10
1200 6th Ave
Seattle WA 98101

Reference: Toxic Substances Control Act Complaint

Docket #1087-0919-2615

Our File #405GB-040

Dear Ms. Shirley:

Enclosed is the information requested during our December 17, 1987 telephone conversation. We hope this information will resolve those issues which are not yet fully reconciled.

Violation 4

Exhibit 1 includes 4 notification letters demonstrating that the building owners in the vicinity of vaults containing PCB transformers have been appropriately notified.

Violation 5

A transformer shop flow chart exhibit 2 has been included to demonstrate how transformers were handled at the time of the inspection. The box in the top center of the flow chart indicates that when the transformers were received they were tested for PCB content. As indicated to the left of that box if a sample was greater than 500 PPM it was sent to storage for disposal. If the sample was between 50 and 500 ppm PCB the transformer was refurbished, refilled with less than 15 ppm PCB oil and a "R" label was put on the case. It was subsequently shipped to the regions for service as indicated in the center column. If the PCB content was less than 50 ppm the transformer was also refurbished with less than 15 ppm oil and a non-PCB label was installed.

121 S.W. Salmon Street, Portland, Oregon 97204

To illustrate PGE's tracking system to ensure that transformers are handled appropriately, according to the PCB content, we have enclosed 4 documents. Exhibit 3 are the repair tickets that are completed by the Journeyman wireman during the refurbishing process. Repair tickets for all transformers in the refurbishing process and completed during the period of inspection February 4 through February 6, 1987 are included. As shown on some of the repair tickets the comment "burnout" indicates this piece of equipment was not refurbished. To track these transformers through the transformer shop the reference is the company # which is at the upper left hand corner of the repair ticket.

Exhibit 4 includes copies of the transformer shop's manually kept oil sampling log. The second column of that document traces the company #, the fourth column indicates the PCB concentration and the seventh column indicates the date the equipment was sampled. The company number from the repair ticket can be traced to this document which will show the PCB concentration. Only those items marked with an X in the far left hand column were in the transformer shop at the time of the inspection.

Exhibit 5 shows the transformer master update. This is a computerized data base which includes all pertinent transformer information including PCB level and test date. The tracking mechanism is the transformer company number shown at the upper left hand column. The PCB concentration is shown in approximately the middle of the right hand column under the heading Oil (GAL) PCB in. A minus 50 ppm illustrates that the PCB content of the equipment was less than 50 ppm.

Exhibit 6 is a copy of the Oregon Analytical Laboratory PCB test reports which shows the amount of PCB in the transformers. Note that the company # is in the second column (digits before the slash). This includes PCB test data for the transformers in the transformer shop during the inspection during the February 4 through the 6th, 1987.

We trust that this information will fully demonstrate that Portland General Electric has an adequate system of tracking the equipment through the transformer shop and refurbishing process. In addition, it demonstrates that the transformer shop fully tracks all transformers by PCB content.

The attached information documents that the transformers in the transformer shop during the inspection February 4 through 6 contained less than 50 ppm when entering the shop and were designated as non-PCB.

Sincerely,

R. J. Hess, Manager
Environmental Sciences

RJH:DMN:slc

c: Lavinia Wihtol, W/Enclosures

es 1334

Portland General Electric Company
Central Division

EXHIBIT 1

November 22, 1985

Standard Insurance Company
P. O. Box 711
Portland, Oregon 97207

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

None of these transformers were manufactured as "pure" PCB transformers. They only contained mineral oil fluid that was contaminated with PCB to a value greater than 500 parts per million, and therefore by regulation must be classified as a PCB transformer. All of these transformers have recently been retrofilled with new mineral oil. Our experience indicates that these units now should be classified as only PCB contaminated (less than 500 ppm). However, to technically specify this, a ninety day waiting period and a subsequent oil analysis is required. We will notify you when this testing is completed.

This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 96
S. W. 5th Ave. between Taylor and Salmon Streets.

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Pacific Power & Light Company
920 S. W. 6th Avenue
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 96
S. W. 5th Ave. between Taylor and Salmon Streets.

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis
Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Albert R. Bullier, Sr.
707 S. W. Washington St.
Portland, Oregon 97205

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 50
S. W. Alder 40 feet east of Broadway

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Norris & Stevens
Attention: Fred Normanden
610 S. W. Broadway
Portland, Oregon 97205

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 50
S. W. Alder 40 feet east of Broadway

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

ASA Properties, Hawaii
H. Graham Salisbury
319 S. W. Washington St.
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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Location: Vault No. 50
S. W. Alder 40 feet east of Broadway

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Electric Building
Building Manager, Lou Ann Cathery
621 S. W. Alder
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 50
S. W. Alder 40 feet east of Broadway

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Ralph D. Schlesinger
610 S. W. Alder St., 12th Floor
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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Location: Vault No. 50
S. W. Alder 40 feet east of Broadway

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Melvin Mark Properties
Attention: John Carder
111 S. W. Columbia Bl.
Suite 1380
Portland, Oregon 97201

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 66
S. W. 5th Ave. 40 feet north of Alder St.

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Frederick & Nelson
Attention: Ted Hodges
521 S. W. 5th Avenue
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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Location: Vault No. 66
S. W. 5th Ave. 40 feet north of Alder St.

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

Far West Federal
Attention: Harper Hamilton, Sr. V.P.
400 S. W. 6th Avenue
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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This unit is located in a concrete vault in a street area at the following location:

Location: Vault No. 70
N. W. Davis between Broadway & Park

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

G. R. Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

Portland General Electric Company
Central Division

November 22, 1985

General Services Administration
1616 Federal Building
1220 S. W. 3rd Avenue
Portland, Oregon 97204

Dear Sir:

The Environmental Protection Agency (EPA) on July 17, 1985 adopted rules (40 CFR Part 761) requiring the owners of electrical transformers classified as "PCB" to register their location with the building owners within 30 meters. This letter will serve as your notification that Portland General Electric Company has PCB transformers located within this distance from your building. Listed below is the location and principle constituant of the dielectric fluid.

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Location: Vault No. 70
N. W. Davis between Broadway & Park

Dielectric Fluid: Mineral Oil

Number of Transformers: 1

Please call me at 226-8715 if you have any questions.

Sincerely,

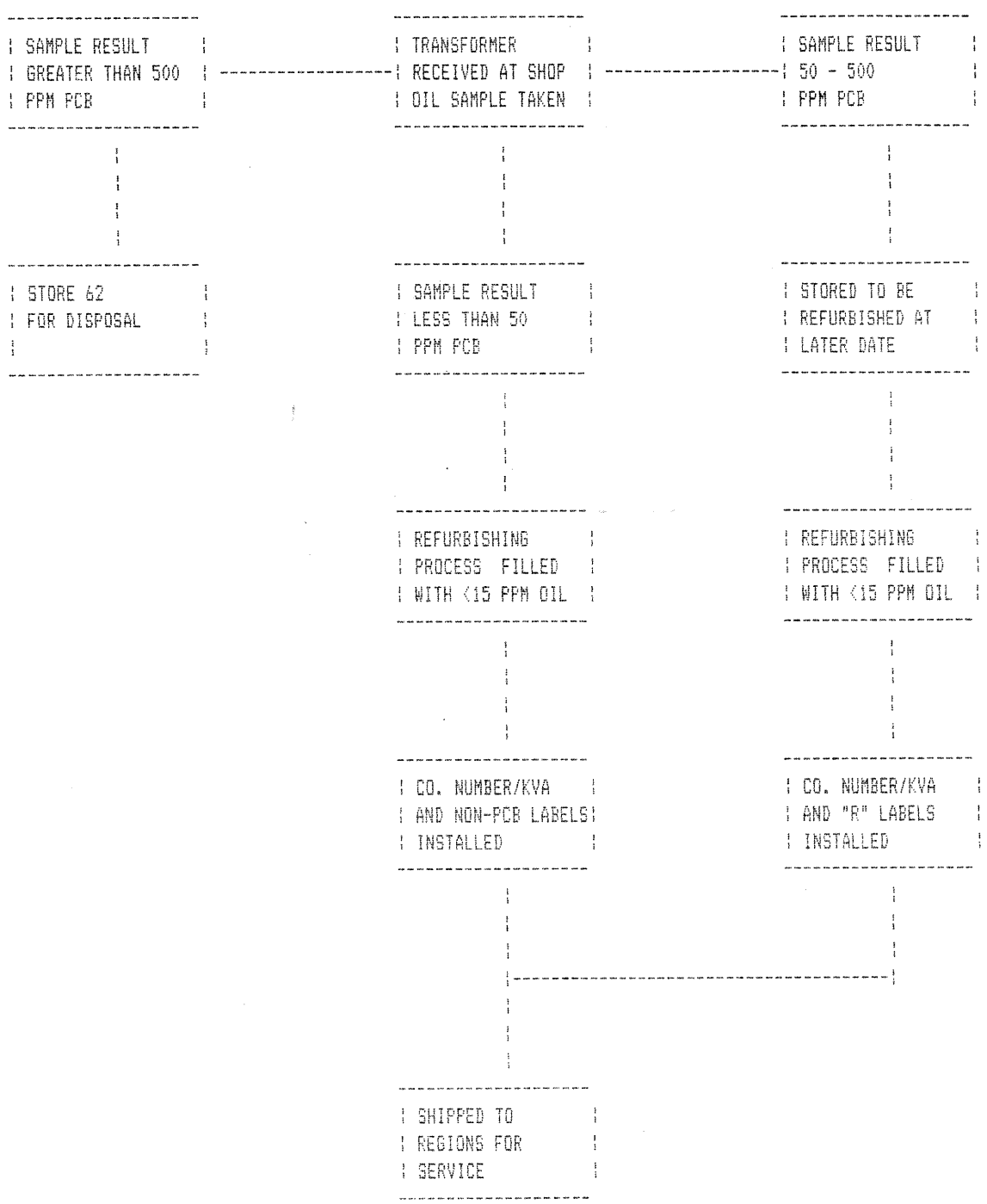
G R Willis

Glenn R. Willis
Chief Field Engineer

GRW/skp

3700 S.E. 17th Street, Portland, Oregon 97202

TRANSFORMER SHOP FLOW CHART



Co. 18987 kVA 10

Make WH Ser. 3386098

Came in as CF 1CB

Came from Salem

Voltage 7200 NT 120/240

Time to complete 2½ hr

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on NT

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
1	Pri Bushing

REPAIR TICKET

Co. 18988 kVA 10

Make GE Ser. F2534546 2K

Came in as 1CB Tol

Came from Salem

Voltage 7200 NT 120/240

Time to complete 1

Inspected and checked [illegible]

New oil Remove breaker

Completed as Bush

Pull core and coils

Strip and prime

Subox paint

Tap set on

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 22189 kVA 10

Make West Ser. 65AM10653

Came in as CF ICB

Came from Gresham

Voltage 7200 NT 120/240

Time to complete 30 mins

Inspected and checked B. May

New oil _____ Remove breaker _____

Completed as _____ Bush _____

Pull core and coils off Ratio

Strip and prime (Burn Out)

Subox paint _____

Tap set on _____

Date 2-4-87

PGE 0617 (Apr 86)

MOD

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	off Ratio

REPAIR TICKET

Co. 22670 kVA 10

Make GE Ser. K497764K72A

Came in as ICB CF

Came from WESTFIELD

Voltage 7200 120/240

Time to complete 2

Inspected and checked Clark

New oil _____ Remove breaker _____

Completed as CF Bush ICB

Pull core and coils ✓

Strip and prime _____

Subox paint _____

Tap set on 7200

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	NEW Tank
1	SET Sec Bush

Co. 7363 kVA 15

Make Moloney Ser. 1318778

Came in as CF 1CB

Came from STOCK

Voltage 7200/6480/120/240

Time to complete 2½ hrs.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 7200

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
1	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 8[illegible] kVA 15

Make [illegible] Ser. 1325811

Came in as [illegible] CF

Came from [illegible]

Voltage [illegible]

Time to complete 2

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint

Tap set on 7200

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
	Ground Clamp
1	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 8320 kVA 15

Make Kuhl Ser. C16243

Came in as ICB CP

Came from Ore. City

Voltage 7200 NT 120/240

Time to complete 2:30

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils ✓

Strip and prime

Subox paint ✓

Tap set on 7200

Date ~~1-30-87~~ 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
✓	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
✓	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 11015 kVA 15

Make West Ser. S-57F247

Came in as CF ICB

Came from Port.

Voltage 7200 NT 120/240

Time to complete '45

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 7200

Date [illegible]-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
2	Secondary Bushing Tank Gaskets
2	Secondary Bushing Term. Gaskets
✓	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
2	sec. bushing where
	broken the trans.
	[illegible] over-
	hauled on 1-15-87

Co. 12498 kVA 15

Make GE Ser. E241999 59K

Came in as CP ICB

Came from Western

Voltage 7200 NT 120/240

Time to complete 2:15

Inspected and checked B [illegible]

New oil _____ Remove breaker _____

Completed as _____ Bush _____

Pull core and coils _____

Strip and prime Burn out

Subox paint _____

Tap set on _____

Date 2-4-87

PGE 0617 (Apr 86)

2 PDM

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	Burn out

REPAIR TICKET

Co. 14073 kVA 15

Make Way Ser. 5R54167

Came in as CP ICB

Came from Sutron

Voltage [illegible] NT 120/240

Time to complete 1:30

Inspected and checked B. Way

New oil _____ Remove breaker _____

Completed as _____ Bush _____

Pull core and coils _____

Strip and prime Burn out

Subox paint _____

Tap set on _____

Date 2-5-87

PGE 0617 (Apr 86)

3 PDM

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	Burn out

REPAIR TICKET

Co. 22096 kVA 15

Make KUHLMAN Ser. 3-169643D1

Came in as CF ICB

Came from SALEM

Voltage 7200/120/240

Time to complete 2 Hrs.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as C.F. Bush ICB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 22741 kVA 15

Make McEd Ser. 71VJ220014

Came in as CF ICB

Came from Gresham

Voltage 7200NT 120/240

Time to complete 2 1/2 hr

Inspected and checked [signature]

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on NT

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 25379 kVA 15

Make WH Ser. 64SA1687

Came in as CONV 2CB

Came from Portland

Voltage 12000/10800 120/240

Time to complete 2 1/2 hr

Inspected and checked Lmd

New oil ✓ Remove breaker

Completed as CONV Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 11,100

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 25714 kVA 15

Make West Ser. 68AF5047

Came in as CONV 2CB

Came from St. Helens

Voltage 7200/6480 120/240

Time to complete 1:45

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CONV Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 7200

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 27465 kVA 15

Make GE Ser. L2300 80K74A

Came in as CK 1CB

Came from ST. HELENS

Voltage 7200/120/240

Time to complete 2 HRS.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CK Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 30055 kVA 15

Make HOWARD Ser. 6556-576

Came in as CK 1CB

Came from GRESHAM

Voltage 7200/120/240

Time to complete 2 HRS.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CK Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 35799 kVA 15

Make RTE Ser. 79218311

Came in as ICB OE

Came from PORTLAND

Voltage 2200 NT 120/240

Time to complete 1½

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as CT Bush 100

Pull core and coils

Strip and prime

Subox paint

Tap set on NT

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 2938 kVA 25

Make West Ser. 3939084

Came in as CONV 2PB

Came from Port

Voltage 2400 NT 120/240

Time to complete 2:30

Inspected and checked B Way

New oil ✓ Remove breaker

Completed as CONV Bush 2PB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 2400

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 3494 kVA 25

Make WEST. Ser. 3936632

Came in as 2PB Conv

Came from PORTLAND

Voltage 2400 NT 120/208

Time to complete 1½

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as Conv Bush 2PB

Pull core and coils

Strip and prime

Subox paint

Tap set on NT

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 4063 kVA 25

Make WEST. Ser. 4153424

Came in as CONV. 2PB

Came from PORTLAND

Voltage 2400/120/240

Time to complete 2 HRS.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CONV. Bush 2PB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 9503 kVA 25

Make Kuhl Ser. C36469

Came in as CP ICB

Came from Gresham

Voltage 7200 NT 120/240

Time to complete 2:15

Inspected and checked R. Illa

New oil ✓ Remove breaker ✓

Completed as CP Bush ICB

Pull core and coils ✓

Strip and prime

Subox paint ✓

Tap set on

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
✓	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
✓	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 9650 kVA 25

Make WFST Ser. S5500926

Came in as ICB CP

Came from WESTERN

Voltage 7200 NT 120/240

Time to complete 1

Inspected and checked Clark

New oil Remove breaker

Completed as Bush Cut

Pull core and coils

Strip and prime

Subox paint Gray

Tap set on

Date 2-6-87

PGE 0617 (Apr 86)

39 MW

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 10112 kVA [illegible]

Make [illegible] Ser. [illegible]

Came in as [illegible] CP

Came from [illegible]

Voltage [illegible] NT [illegible]

Time to complete

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as [illegible] Bush [illegible]

Pull core and coils

Strip and prime

Subox paint

Tap set on 7200

Date [illegible]

PGE 0617 (Apr 86) ✓

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. [illegible] kVA 25

Make Kuhlman Ser. C55188

Came in as CF ICB

Came from Ore. City

Voltage 7200 NT 120/240

Time to complete 2:20

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 7200

Date 2-6-87

PGE 0617 (Apr 86) ✓

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 11005 kVA 25

Make West Ser. S56F2323

Came in as CP 1CB

Came from Stock

Voltage 7200 NT 120/240

Time to complete 2:30

Inspected and checked B. May

New oil ✓ Remove breaker ✓

Completed as CP Bush 1 3

Pull core and coils ✓

Strip and prime

Subox paint ✓

Tap set on 7200

Date 2-[illegible]-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
✓	Handhole
	Fuse
✓	Templex Tube
2	Ground Clamp
✓	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 11785 kVA 25

Make Kuhlman Ser. CB5402

Came in as 2CB Cover

Came from Portland

Voltage 7200 NT 120/240

Time to complete 3

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint

Tap set on NT

Date 2 6 87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
1	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	Drill Ground Lug
	Paint Lid

Co. 17393 kVA 25

Make AC Ser. 3427253

Came in as TOIF ICB

Came from GRESHAM

Voltage 7200/no/240

Time to complete 2 Hrs.

Inspected and checked SANTOS

New oil ✓ Remove breaker ✓

Completed as CF Bush ICB

Pull core and coils ✓

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
1	Fuse
	Templex Tube
2	Ground Clamp
4	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	Replaced Cover

REPAIR TICKET

Co. 17588 kVA 25

Make Mol. Ser. 2027915

Came in as CF ICB

Came from Port.

Voltage 7200 NT 120/240

Time to complete 30 mins

Inspected and checked B. Hay

New oil Remove breaker

Completed as Bush

Pull core and coils

Strip and prime Burn out

Subox paint

Tap set on

Date 2-4-87

PGE 0617 (Apr 86)

RE WOUND

QUANTITY	PARTS
	Primary Bushing Tank Gaskets
	Primary Bushing Term. Gaskets
	Secondary Bushing Tank Gaskets
	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing
	Burn out

REPAIR TICKET

Co. 19177 kVA 25

Make AC Ser. 3617717

Came in as CF 1CB

Came from SALEM

Voltage 7200/120/240

Time to complete 2 Hrs.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
1	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. [illegible] kVA [illegible]

Make [illegible] Ser. 09377-1-1-1

Came in as 2CB [illegible]

Came from [illegible]

Voltage [illegible]

Time to complete 2

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as [illegible] Bush 2CB

Pull core and coils

Strip and prime

Subox paint

Tap set on

Date 2-11-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 30492 kVA 25

Make GE Ser. F689182 63K

Came in as CONV 2CB

Came from Western

Voltage 12000/10800 120/240

Time to complete 2 1/2 hr

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as CONV Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 11,100

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 30834 kVA 25

Make G-E Ser. 6820 17177

Came in as CONV 2CB

Came from Port.

Voltage 12000/10800 120/240

Time to complete 2:00

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CONV Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 11,100

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 36442 kVA 25

Make West. Ser. 75AF328

Came in as CF ICB

Came from St. Helens

Voltage 7200 NT 120/240

Time to complete 1:45

Inspected and checked B. May

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils

Strip and prime

Subox paint ✓

Tap-set on 7200

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
✓	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 46890 kVA 25

Make GE Ser. N430718YBUA

Came in as ICB CF

Came from Stock

Voltage 7200 NT 120/240

Time to complete 1½

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as CF Bush ICB

Pull core and coils

Strip and prime

Subox paint

Tap set on NT

Date 2-6-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 1904 kVA 37 1/2

Make WH Ser. 6320678

Came in as CONV 2CB

Came from Gresham

Voltage 12600/11400 240/480

Time to complete 2 1/2 hr

Inspected and checked

New oil ✓ Remove breaker

Completed as CONV Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 12600

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 1906 kVA 37 1/2

Make WEST. Ser. 6335536

Came in as CONV. 2CB

Came from GRESHAM

Voltage 12,600/11400/240/480

Time to complete 2 hrs.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CONV. Bush 2CB

Pull core and coils

Strip and prime ✓

Subox paint ✓

Tap set on 12,600

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 5548 kVA 37½

Make GE Ser. F13820062K

Came in as CR 1CB

Came from PORTLAND

Voltage 7200/120/240

Time to complete 2½ HRS.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CR Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on N.T.

Date 2-4-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
1	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 6909 kVA 37½

Make RTE Ser. 5201466

Came in as CONV. 2CB

Came from STOCK

Voltage 2400/7200/120/240

Time to complete 2 HRS.

Inspected and checked SANTOS

New oil ✓ Remove breaker

Completed as CONV. Bush 2CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on 2400

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
3	Primary Bushing Tank Gaskets
3	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 6338 kVA 50

Make GE Ser. G425729-65K

Came in as 2CB Conv.

Came from Stock

Voltage 2400/7200 240/480

Time to complete 1 3/4

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as Conv. Bush 2CB

Pull core and coils

Strip and prime

Subox paint

Tap set on 2400

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 8765 kVA 50

Make AC Ser. 4914334

Came in as CF 1CB

Came from Gresham

Voltage 7200 NT 120/240

Time to complete 2 1/2 hr

Inspected and checked [illegible]

New oil ✓ Remove breaker

Completed as CF Bush 1CB

Pull core and coils

Strip and prime

Subox paint ✓

Tap set on NT

Date 2-9-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
1	Primary Bushing Tank Gaskets
1	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
	Handhole
	Fuse
	Templex Tube
2	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

Co. 1357 kVA 75

Make FPE Ser. 114426

Came in as 2CB Conv.

Came from WESTERN

Voltage 12,600/11,100 120/240

Time to complete 2

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as Conv. Bush 2CB

Pull core and coils

Strip and prime

Subox paint

Tap set on 12,600

Date 2-5-87

PGE 0617 (Apr 86)

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
1	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

REPAIR TICKET

Co. 289 kVA 167

Make Reav Ser. 6-14029-1-6

Came in as 2CB Conv.

Came from Salem

Voltage 13,200/11,250 277

Time to complete 2½

Inspected and checked Clark

New oil ✓ Remove breaker

Completed as Conv. Bush 2CB

Pull core and coils

Strip and prime

Subox paint

Tap set on 12,540

Date 2-5-87

PGE 0617 (Apr 86)

2 RPM

QUANTITY	PARTS
2	Primary Bushing Tank Gaskets
2	Primary Bushing Term. Gaskets
3	Secondary Bushing Tank Gaskets
3	Secondary Bushing Term. Gaskets
1	Cover
1	Handhole
	Fuse
	Templex Tube
	Ground Clamp
	Weld C.P. Hole
	Weld Hangers
	Weld Cover Bushing Hole
	Weld Term. Pockets
	Punch Cover for Bushing

SAMPLE #	CO #	KVA	PCB CONC	GAL	MANF	SAMPLE DATE	SER #	TEST
12863	25883	25	20			12-15-86	702013559	Hold
12883	17082	15	<1			12-15-86	3781240	Hold
12878	20897	25	<1			12-15-86	5205659	Hold
12885	10289	10	91			12-15-86	B749623	Hold
12880	5570	10	43			12-15-86	8988669	Hold
X 12875	5176	15	<1			12-15-86	1335811	Hold
12876	5157	25	62			12-15-86	B795804	Hold
12886	696	75	119			12-15-86	9855164	Hold
12882	938	75	2			12-15-86	D865648558	Hold
12877	38305	15	<1			12-15-86	N703820Y8X	Hold
12874	8195	25	11			12-15-86	6477299	RETROFILL
12868	Reclosure	140 Amps	26	4	LM	12-15-86	15120	Hold
12853	3931	25	87	19	GE	12-15-86	8387373	Hold
12864	T183	1000	<1	240	GE	12-15-86	P171848	New
12881	Reclosure	140 Amps	31	4	LM	12-15-86	37609	Hold
12884	T-913	150	<1	105	GE	12-15-86	P171214	New
12879	30307	500	14	519	AC	12-15-86	32150002694	REGULATOR
12899	12162	50	21			12-16-86	K333174 Y72 PM	Hold
12904	14560	15	243			12-16-86	5S23029	Hold

SAMPLE #	COD	KVA	PCB CONC	GAL	MANF	SAMPLE DATE	SERN	TEST
12992	27827	10	88			12-19-86	9166917	Hold
12990	27831	10	8			12-19-86	7444524	Hold
12988	24135	15	150			12-19-86	7334847	Hold
12984	3364	37½	9			12-19-86	9654291	Hold
12982	24283	15	183			12-19-86	8298116	Hold
12991	8690	25	13	[illegible]	Lm	12-19-86	1440111	RETRO
12986	T-111	1500	<1	208	GE	12-19-86	P171868	NEW
12980	T-236	112	32		WEST	12-19-86	77E483335	OUTGOING
12981	T-567	112	37		WEST	12-19-86	81JE449033	Hold
12993	7249	15	15	9	GE	12-22-86	9770084	RETRO
13005	T-208	112	13	102	WEST	12-22-86	76C195026	OUTGOING
13004	37775	15	<1			12-22-86	8111 50123	Hold
13003	9491	5	<1			12-22-86	4474003	Hold
X 13002	11005	25	<1			12-22-86	S-56F2323	Hold
13009	6309	3	43			12-22-86	4473812	Hold
13001	16009	15	2			12-22-86	3604614	Hold
13006	7080	15	352			12-22-86	B739576	Hold
X 13008	46890	25	<1			12-22-86	N430718YBVA	Hold
X 13007	7363	15	38			12-22-86	1318778	Hold

12963	627	7½	17			12-18-86	718701	Hold	1
12962	28003	10	1			12-18-86	2880131	Hold	1
12969	1949	7½	2			12-18-86	1602800	Hold	1
12960	1632	7½	4			12-18-86	4063513	Hold	1
12973	4639	25	6			12-18-86	5094035	Hold	1
12972	25054	15	10			12-18-86	8495041	Hold	1
12961	T 551	225	<1	120	GE	12-18-86	P171729	New	1
12978	T 628	300	<1	160	GE	12-18-86	P171736	New	1
12965	30298	10	6	8	GE	12-18-86	752028440	Hold	1
12970	25089	15	30	11	LM	12-18-86	1899403	Hold	1
12968	24735	15	29	10	WBS	12-18-86	5R33845	Hold	1
12967	22220	15	<1	16	RTE	12-18-86	712005580	Hold	1
12958	26660	25	33	19	RTE	12-18-86	712001096	Hold	1
12979	20409	25	<1	18	WEST	12-18-86	65AG10801	Hold	1
12957	21336	25	<1	12	RTE	12-18-86	6217749	Hold	1
12985	40146	25	<1			12-19-86	77A272918	Hold	1
X 12989	11785	25	<1			12-19-86	C85402	Hold	1
12987	952	37½	70			12-19-86	9267677	Hold	1
12983	27832	10	6			12-19-86	9672532	Hold	1

SAMPLE #	CO #	KUN	PCB CONC	GAL	MANF	DATE	SER #	TEST
13229	8169	37½	1930			12-31-86	7666887	Hold
13227	15853	25	13			12-31-86	3598215	Hold
13224	5589	50	5			12-31-86	F93759964K	Hold
13226	24575	15	1			12-31-86	F25406862K	Hold
13182	T 630	300	<1	130	McGR.	12-31-86	862N611001	New
13183	9611	15	15	10	KUHL	12-31-86	C46146	RETRO
13228	T 553	225	<1	130	McGR.	12-31-86	862N600001	New
13237	10705	25	16	19	AC	1-2-87	2919651	RETRO
13234	10334	10	14	10	GE	1-2-87	B744183	RETRO
X 13240	11015	15	<1			1-2-87	557F247	Hold
13233	8000	15	19			1-2-87	6921525	Hold
13239	10455	5	4			1-2-87	2327568	Hold
13238	1750	100	<1			1-2-87	H54625168K	Hold
13232	1752	100	<1			1-2-87	H54625468K	Hold
13236	1751	100	<1			1-2-87	H54625268K	Hold
13230	7345	10	1			1-2-87	5397243	Hold
13231	7550	75	<1			1-2-87	79JJ058053	Hold
13241	11467	5	<1			1-2-87	6324530	Hold
13243	30522	10	<1			1-2-87	742005390	Hold

SAMPLE #	CO#	RUN	PCB CONC	GAL	MANF	DATE	SER #	TEST
13457	9193	25	288			1-16-87	6933346	Hold
13471	14074	25	31			1-16-87	E23309959K	Hold
13470	2728	37½	<1			1-16-87	C66701	Hold
13456	28086	10	90			1-16-87	F686894[illegible]3P	Hold
13473	14128	5	217			1-16-87	E98391463P	Hold
13459	3571	75	<1			1-16-87	712005948	Hold
13463	1061	25	47			1-16-87	2435184	Hold
13458	24108	15	134			1-16-87	6280669	Hold
X 13461	8320	15	<1			1-16-87	C16243	Hold
13460	34378	25	<1			1-16-87	L669703K74A	Hold
13465	9466	25	336			1-16-87	2801147	Hold
13462	T5527	75	<1	56	WEST	1-16-87	86JM819079	New
13475	7080	15	3	10	GIE	1-16-87	B739576	Retro
3474	Reclosure	70 Amp	26		LM	1-16-87	27107	Hold
3464	T-8526	75	<1	56	WEST	1-16-87	86JM819053	New
3476	T-914	150	<1	105	WEST	1-19-87	86JM812054	New
3485	Reclosure	70 Amp	24	4	LM	1-19-87	10956	Hold
3486	T-8525	75	<1	100	WEST	1-19-87	86JM818165	New
3479	T-631	300	<1	110	WEST	1-19-87	86JL805032	New

13501	T-91	1000	<1		G.L	1-20-87	M591318TRAR	OK
X 13481	17393	25	<1			1-20-87	3427253	Hold
13487	41693	25	<1			1-20-87	36671510031B	Hold
13490	19804	10	1			1-20-87	62 SL 988	Hold
13477	19696	10	24			1-20-87	F25556962K	Hold
13494	3136	15	<1			1-20-87	1955071	Hold
13478	10222	10	38			1-20-87	6342934	Hold
3491	14036	10	29			1-20-87	2995415	Hold
3482	16935	10	22			1-20-87	5N23702	Hold
3484	9763	5	26			1-20-87	2178541	Hold
3506	13399	5	29			1-20-87	B884850	Hold
3515	13156	5	27			1-20-87	B869753	Hold
3508	10310	5	28			1-20-87	5445447	Hold
3510	11550	5	32			1-20-87	B609816	Hold
3488	7826	5	19			1-20-87	843829	Hold
3493	8577	5	28			1-20-87	8486475	Hold
3489	11577	5	25			1-20-87	B609810	Hold
3495	7922	5	30			1-20-87	8304290	Hold
3483	13198	5	24			1-20-87	B970120	Hold

SAMPLE #	CO #	KVA	PCB CONC	GAL	MANT	DATE	SER #	TEST
13532	20072	15	43			1-21-87	692011768	Hold
13537	887	75	29			1-21-87	1546513	Hold
13533	T-91	1000	13			1-22-87	M591318TARA	OUTGOING
13528	V Reclosure	140 Amp	12			1-22-87	130096	Hold
13557	7681	75	<1			1-22-87	N023710YASA	OUTGOING
13559	7680	75	<1			1-22-87	N023709YASA	OUTGOING
13552	4813	100	<1			1-22-87	N610692YGW	OUTGOING
X 13551	4063	25	46			1-22-87	4153424	ROTARE
13566	4953	100	<1			1-22-87	861146600	New
13550	T 8539	75	<1			1-22-87	866010122	New
13555	19301	15	<1			1-22-87	68AJ8833	Hold
13556	33462	15	<1			1-22-87	77A202670	Hold
13549	7100	15	4			1-22-87	6337883	Hold
13558	25605	10	7			1-22-87	5057953	Hold
3560	24684	25	<1			1-22-87	5068130	Hold
3563	3722	100	<1			1-22-87	M001375KBLA	Hold
3564	6305	10	48			1-22-87	7906394	Hold
3547	3666	10	263			1-22-87	72213	Hold
3565	11204	15	265			1-22-87	D759454	Hold

SAMPLE #	CO#	RUN	PCB CONC	GAL	MANT	DATE	SER #	TEST
13660	8530	75	<1			1-26-87	861144016	New
13646	8531	75	<1			1-26-87	861144017	New
13652	6835	5	29			1-26-87	3927115	Hold
13664	8330	5	26			1-26-87	4473381	Hold
13655	8479	5	26			1-26-87	4474308	Hold
13654	10975	5	29			1-26-87	6169083	Hold
13649	14416	5				1-26-87	67D21129	Hold
X 13648	1904	37½	<1			1-26-87	6320678	Hold
13663	9564	5	28			1-26-87	4474106	Hold
X 13661	9503	25	<1			1-26-87	C36969	Hold
X 13647	22741	15	26			1-26-87	71VJ220014	Hold
13659	11014	5	28			1-26-87	B524872	Hold
13662	14425	5	43			1-26-87	E40851662P	Hold
13651	9884	5	31			1-26-87	2318914	Hold
13645	7028	5	84			1-26-87	7977924	Hold
13657	11018	5	28			1-26-87	B524878	Hold
X 13653	30055	15	<1			1-26-87	6556576	Hold
X 13650	8765	50	17			1-26-87	4914334	Hold
13658	11836	15	22			1-26-87	3166199	Hold

	SAMPLE #	CO #	KVA	PCB CONC	GAL	MANF	DATE	SER #	TEST
X	13688	30834	25	<1			1-28-87	682017177	Hold
	13687	5259	25	41			1-28-87	L9C 2035	Hold
X	13683	2938	25	41			1-28-87	3939084	Hold
	13669	5008	25	65			1-28-87	5354013	Hold
X	13689	35799	15	<1			1-28-87	792018311	Hold
X	13686	5548	37½	13			1-28-87	F138200 62K	Hold
X	13681	17588	25	28			1-28-87	2027915	Hold
X	13682	10112	25	<1			1-28-87	1561393	Hold
	13684	16561	10	15			1-28-87	5M18670	RETRO
X	13714	19177	25	11			1-28-87	3617717	Hold
	13715	26584	10	<1			1-28-87	J781057K71	Hold
X	13708	18987	10	<1			1-28-87	3386098	Hold
X	13713	22096	15	<1			1-28-87	316964321	Hold
	13712	25234	50	<1			1-28-87	105030782	Hold
X	13710	19558	10	2			1-28-87	F253454 62K	Hold
X	13711	14073	15	36			1-28-87	5R54164	Hold
X	13709	289	167	2			1-25-87	B1402916	Hold
	13716	287	167	2			1-25-87	B1402914	Hold
	13837	9466	25	2			1-29-87	2801147	RETRO

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SAMPLE #	CO#	KVA	PCB CONC	GAL	MANF	DATE	SER #	TEST	S
x 13644	1906	37½	6			1-26-87	6335536	Hold	1
x 13656	22189	10	<1			1-26-87	65HM10683	Hold	1
13643	19193	25	2			1-26-87	3617730	Hold	1
13667	8954	10	15			1-27-87	B40217	RETRO	1
13670	14796	15	15			1-27-87	F25356462K	RETRO	1
13675	27653	10	14			1-27-87	6963776	RETRO	1
x 13672	1357	75	40			1-27-87	114426	Hold	1
x 13677	30416	25	11			1-27-87	[illegible]09377114	Hold	13
x 13676	9650	25	39			1-27-87	S55D0926	Hold	13
x 13674	12498	15	2			1-27-87	E24199959K	Hold	1
13671	24537	25	35			1-27-87	69VL120009	Hold	1
13666	7458	10	43			1-27-87	8662362	Hold	1
13679	16432	50	<1			1-27-87	74VG060001	Hold	1
13665	16929	25	31			1-27-87	111918	Hold	1
x 13673	28670	10	<1			1-27-87	K497764K72A	Hold	1
13668	30442	25	30			1-27-87	60002413	Hold	1
x 13680	30492	25	31			1-27-87	F68918263K	Hold	1
13678	13196	50	20			1-27-87	G16697465K	Hold	13
x 13685	25379	15	2			1-28-87	64SA1687	Hold	1

SAMPLE #	CO #	KVA	PCB CONC	GAL	MANF	DATE	SER #	TEST	SAI
150									
13854	7603	5	40			1-30-87	4151399	Hold	138
X 13851	10126	25	1			1-30-87	C55188	Hold	13
13848	17944	25	<1			1-30-87	616721113	Hold	13
	15070	50				1-30-87	13VG066025	Hold	13
13853	15757	50	<1			1-30-87	732010953	Hold	13
X 13845	36442	25	25			1-30-87	75AF32[illegible]	Hold	13
13847	[illegible]	15	44			1-30-87	64SE1598	Hold	13
X 13850	25714	15	41			1-30-87	68AF5047	Hold	13
13846	24690	15	40			1-30-87	61SM1402	Hold	13
13852	29061	10	85			1-30-87	D240694	Hold	13
X 13849	27465	15	<1			1-30-87	1230080K74A	Hold	13
13838	30298	500	15	545	GE	1-30-87	D550916	OUT GOING REG.	13
X 138[illegible]	6338	50	12	42	GE	1-30-87	G42572965R	Hold	13
X 13841	6909	37½	<1	18	RTE	1-30-87	5201466	Hold	13
138[illegible]0	5257	10	15	10	GE	1-30-87	7485215	RETRO	13
[illegible]	30257	[illegible]	36	522	AC	1-30-87	52116 000093	REGULATION	1
13843	9193	25	<1	10	WEST	1-30-87	6933346	RETRO	1
13856	T-780	500	<1	120	GE	2-2-87	P171781	"R" TEMP NEW	1
13855	7111	10	16	10	MOL	2-2-87	1136528	RETRO	1

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Sample #	CO#	KVA	PCB Conc	Volume Gas	Manf.	Sample date	Ser #	Field Test	So
	15721	15		12	WAG	1-14-85	5U10058	OK	
	1797	167		56	RTF	1-14-85	751001562	OK	
3338	6569	37½	22	18	RTE	1-14-85	4203093	Hold	
3337	8359	10	36	13	KUHL	1-14-85	A88909	Hold	
	27499	25		17	GE	1-14-85	K463157K71A	OK	
3339	23414	10	47	8	PENN	1-14-85	[6]36398-1-31	Hold	
	9070	10	72	8	PENN	1-14-85	20968-33	Hold	
3336	Reclosure	140 Amp	29	5	LM	1-15-85	34654	Hold	
3347	T-490	225	<5	180	West	1-15-85	850A343218	New outgoing	
3348	T-161	1000	<5	350	RTE	1-15-85	846009522	New outgoing	
	25012	15		17	GE	1-15-85	9672797	OK	
3420	3969	37½	42	25	West	1-15-85	3266242	OK	
3397	3968	37½	<5	25	West	1-15-85	3266240	OK	
3398	3967	37½	7	25	West	1-15-85	3265860	OK	
x 3422	3494	25	37	17	West	1-15-85	3936632	Hold	
3396	14079	5	17	5	GE	1-15-85	3457397	OK	
	37950	15		14	RTE	1-15-85	831096562	OK	
	25731	50		33	RTE	1-15-85	841134138	OK	

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#P58K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 06909 MOUNT:
SIZE: 0037 5 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00005201466 PRI PHS : ID NO:
MFG CODE: 25 R. T. E. SHOP USE:
PRI VOLT: 17 2400 X 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87
TAP POSN: 1 NO TAP TAP SETG: 2400 OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
07 11 74	54363	01	INSTALLED
02 28 77	07309	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.70
2ND HAND: N WEIGHT(LB):
MAINT: 02 05 87 PURCH: 1965 00
REWIND: NEW: 1965 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSBK
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000 00
TRANSFORMER CD #: 06338 MOUNT:
SIZE: 0050 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0000G425729 PRI PHS : ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 17 2400 X 7200 USE CD : 00
SEC VOLT: 04 240/480 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
11 18 77	11528	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.65
2ND HAND: N WEIGHT(LB):
MAINT: 02 05 87 PURCH: 1965 00
REWIND: NEW: 1965 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47:55

COMMAND: P PAGE 1 OF 1 MAP #: C11-35D
TRANSFORMER CO #: 08765 MOUNT: 12117
SIZE: 0050 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 000049143 34 PRI PHS : C ID NO:
MFG CODE: 03 ALLIS CHALMERS SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: XTAPS: 0.0

H I S T O R Y #TAPS: 0 SECTION NO:

ACT DATE	JOB #	CD	DESC.
05 28 87	53562	01	INSTALLED
12 05 86	99910	04	SHIPPED TO SHOP
01 26 87	99959	04	SHIPPED TO SHOP
01 22 87	81477	02	REMOVED

PHASE: 1 %IMPEDANCE: 1.60
2ND HAND: N WEIGHT(LB):
MAINT: 02 04 87 PURCH: 1969 00
REWIND: NEW: 1969 00
REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#FS8K
PRINTED BY E62630 M47155

COMMAND: P PAGE 1 OF 1 MAP #: A11-350
TRANSFORMER CO #: 01357 MOUNT: 515
SIZE: 0075.0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00000114426 PRI PHS : AB ID NO:
MFG CODE: 36 FPE SHOP USE:
PRI VOLT: 06 12000 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN: 3 TAPS + & - TAP SETG: 12600 OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.		
02 26 87	25874	01	INSTALLED	PHASE: 1	SECTION NO:
01 23 87	52803	02	REMOVED	2ND HAND: N	%IMPEDANCE: 1.70
01 27 87	99910	04	SHIPPED TO SHOP	MAINT: 02 05 87	WEIGHT(LB):
10 28 77	11489	01	INSTALLED	REWIND:	PURCH: 1962 00
					NEW: 1962 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 00289 MOUNT:
SIZE: 0167 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00001402916 PRI PHS : ID NO:
MFG CODE: 11 PENNSYLVANIA SHOP USE:
PRI VOLT: 13 13200 USE CD : 00
SEC VOLT: 21 277 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 60
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 7 - TAPS TAP SETG: OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
1[illegible] 06 86	81326	02	REMOVED
01 28 87	99960	04	SHIPPED TO SHOP
0[illegible] 23 87	48551	02	REMOVED
05 24 65	72191	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.70
2ND HAND: N WEIGHT(LB)

MAINT: 02 05 87 PURCH: 1963 00
REWIND: NEW: 1963 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 147155

COMMAND: P PAGE 1 OF 1 MAP #: C21-18
TRANSFORMER CO #: 17393 MOUNT: 4689
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00003427253 PRI PHS : C ID NO:
MFG CODE: 03 ALLIS CHALMERS SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 20 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
02 18 87	53211	01	INSTALLED
07 28 86	99940	04	SHIPPED TO SHOP
01 19 87	99950	04	SHIPPED TO SHOP
12 23 86	81192	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.10
2ND HAND: N WEIGHT(LB):

MAINT: 02 05 87 PURCH: 1962 00
REWIND: NEW: 1962 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSEK
PRINTED BY E42620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 17588 MOUNT:
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00002027915 PRI PHS : ID NO:
MFG CODE: 06 MOLONEY SHOP USE: 53 BURNED-OUT TRANSFORMER
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 10
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
01 25 87	10027	02	REMOVED
01 28 87	99910	04	SHIPPED TO SHOP
12 30 74	32530	01	INSTALLED
12 10 86	99940	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.80
2ND HAND: N WEIGHT(LB):

MAINT: PURCH: 1963 00
REWIND: NEW: 1963 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSEK
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: C3W-23B
TRANSFORMER CO #: 19177 MOUNT: 2557
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00003617717 PRI PHS : A ID NO:
MFG CODE: 03 ALLIS CHALMERS SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 20 WILLAMETTE VALLEY 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT	DATE	JOB #	CD	DESC.
09	18 87	49444	01	INSTALLED
01	28 97	99920	04	SHIPPED TO SHOP
01	21 87	47337	03	REMOVED
01	24 69	63390	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.50
2ND HAND: N WEIGHT(LB):
MAINT: 02 03 87 PURCH: 1944 00
REWIND: NEW: 1944 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155
PRINTED BY E62620
COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 30416 MOUNT:
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :
SERIAL #: 00609377114 PRI PHS : ID NO:
MFG CODE: 11 PENNSYLVANIA SHOP USE:
PRI VOLT: 06 12000 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 10
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN: 7 - TAPS TAP SETC: OUT)
FUSE SIZE: %TAPS: 2.5
H I S T O R Y #TAPS: 4 SECTION NO:
ACT DATE JOB # CD DESC. | PHASE: 1 %IMPEDANCE: 2.40
07 28 86 99940 04 SHIPPED TO SHOP | 2ND HAND: N WEIGHT(LB):
01 23 87 52803 02 REMOVED |
01 27 87 99910 04 SHIPPED TO SHOP | MAIN : 02 04 87 PURCH: 1964 00
10 28 77 11489 01 INSTALLED | REWIND. NEW: 1964 00
REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155

PRINTED B: E62620

COMMAND: P PAGE 1 OF 1 MAP #: A11-07B
TRANSFORMER CO #: 3049. MOUNT: 233
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0F68918263K PRI PHS : B ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 03 12000 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN: 7 - TAPS TAP SETG: 11100 OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 15 87	10411	01	INSTALLED
11 14 86	81185	02	REMOVED
01 20 87	53019	02	REMOVED
01 27 87	99910	04	SHIPPED TO SHOP

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.90
2ND HAND: N WEIGHT(LB):

MAINT: 02 05 87 PURCH: 1964 00
REWIND: NEW: 1964 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
MAT155
PRINTED BY E62620
COMMAND: P PAGE 1 OF 1 MAP #: D11-02B
TRANSFORMER CO #: 30874 MOUNT: 277
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00682017177 PRI PHS : C ID NO:
MFG CODE: 25 R. T. E. SHOP USE:
PRI VOLT: 06 12000 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 7 - TAPS TAP SETG: OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
08 11 87	07559	01	INSTALLED
01 25 87	24537	02	REMOVED
01 28 87	99910	04	SHIPPED TO SHOP
12 15 68	05199	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.80
2ND HAND: N WEIGHT(LB):

MAINT: 02 04 87 PURCH: 1968 00
REWIND: NEW: 1968 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8*
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: D11-09C
TRANSFORMER CO #: 36442 MOUNT: 160
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 000075AF328 PRI PHS : A ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
02 26 87	26927	01	INSTALLED
08 13 65	58410	01	INSTALLED
01 30 87	07504	05	REINSTATEMENT
12 15 84	06765	07	RETIRED WHOLE TRFMR

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.50
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1975 00
REWIND: NEW: 1975 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E63:20 M47155

COMMAND: P PAGE 1 OF 1 MAP #: D11-04B
TRANSFORMER CO #: 46890 MOUNT: 362
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: N430718YBUA PRI PHS : C ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 12 22 86
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
02 23 87	53+21	01	INSTALLED
12 22 86	99950	04	SHIPPED TO SHOP
12 15 86	81059	02	REMOVED
12 01 83	06578	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1983 00
REWIND: NEW: 1983 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY 262620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 01904 MOUNT:
SIZE: 0037 5 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00006320678 PRI PHS : ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE:
PRI VOLT: 06 12000 USE CD : 00
SEC VOLT: 04 240/480 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 50
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87
TAP POSN: 3 TAPS + & - TAP SETG: OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 11 72	05139	01	INSTALLED
01 26 87	99950	04	SHIPPED TO SHOP
01 16 87	81470	02	REMOVED
06 15 54	04847	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.20
2ND HAND: N WEIGHT(LB):

MAINT: 02 04 87 PURCH: 1953 00
REWIND NEW: 1953 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K

PRINTED BY E62620 X47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00

TRANSFORMER CO #: 01906 MOUNT:

SIZE: 0037 5 MODE: X (A, C, D, P, R) JOB #:

PO #: DATE :

SERIAL #: 00006335536 PRI PHS : ID NO:

MFG CODE: 02 WESTINGHOUSE SHOP USE:

PRI VOLT: 06 12000 USE CD : 00

SEC VOLT: 04 240/480 OWNR CD : 1 PGE OWNED

BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 50

TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK

CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.

INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87

TAP POSN: 3 TAPS + & TAP SETG: OUT)

FUSE SIZE: %TAPS: 2.5

H I S T O R Y #TAPS: 4 SECTION NO:

ACT DATE	JOB #	CD	DESC.	PHASE: 1	%IMPEDANCE: 2.20
01 26 87	99950	04	SHIPPED TO SHOP	2ND HAND: N	WEIGHT(LB):
01 16 87	81470	02	REMOVED		
06 15 54	04847	01	INSTALLED	MAINT: 02 04 87	PURCH: 1953 00
04 24 86	72919	02	REMOVED	REWIND:	NEW: 1953 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSOK
PRINTED BY E62[illegible] M47155

COMMAND: P PAGE 1 OF 1 MAP #: D12-17D
TRANSFORMER CO #: 05540 MOUNT: 389
SIZE: 0037.5 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :
SERIAL #: 0000F138206 PRI PHS : ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT	DATE	JOB #	CD	DESC.
02	18 87	07583	01	INSTALLED
04	24 86	72919	02	REMOVED
01	25 87	10158	02	REMOVED
01	28 87	99910	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.80
2ND HAND: N WEIGHT(LB):

MAINT: 02 04 87 PURCH: 1962 00
REWIND: NEW: 1962 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155
PRINTED BY 162620
COMMAND: P PAGE 1 OF 1 MAP #: C11-048
TRANSFORMER CO #: 30055 MOUNT: 5774
SIZE: 0015.0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE:

SERIAL #: 00006556576 PRI PHS : C ID NO:
MFG CODE: 39 HOWARD OLD 99 SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
04 15 87	07871	01	INSTALLED
05 11 72	05139	01	INSTALLED
01 26 87	79950	04	SHIPPED TO SHOP
01 22 87	81552	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.00
2ND HAND: N WEIGHT(LB):
MAINT: 02 04 87 PURCH: 1976 00
REWIND: NEW: 1976 00

REMARKS:

UPDATE TRANSFORMER MASTER UPDATE 12-17-87 T#PS0K
M47155
PRINTED BY E62620
COMMAND: P PAGE 1 OF 1 MAP #: D21-11C
TRANSFORMER CO #: 35799 MOUNT: 2228
SIZE: 0015 0 MODE: X (A, C, D, F, R) JOB #:
PO #: DATE :

SERIAL #: 00792018311 PRI PHS : C ID NO:
MFG CODE: 25 R. T. E. SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
03 18 87	27326	01	INSTALLED
01 22 87	10131	02	REMOVED
01 28 87	99960	04	SHIPPED TO SHOP
10 10 80	74763	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.70
2ND HAND: N WEIGHT(LB):
MAINT: 02 04 87 PURCH: 1980 00
REWIND: NEW: 1980 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155

PRINTED BY [illegible]

COMPANY: [illegible] PAGE 1 OF 1 MAP #: B11-01D

TRANSFORMER CD #: 02938 MOUNT: 417

SIZE: 0025.0 MODE: X (A, C, D, F, R) JOB #:

PO #: DATE :

SERIAL #: 00003939084 PRI PHS : A ID NO:

MFG CODE: 02 WESTINGHOUSE SHOP USE:

PRI VOLT: 02 2400 USE CD : 00

SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED

BUSHINGS: 03 SIDE WALL DIV/YARD: 10 CENTRAL 00

TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE

CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.

INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87

TAP POSN: 1 NO TAP TAP SETG: OUT)

FUSE SIZE: %TAPS: 0.0

H I S T O R Y #TAPS: 0 SECTION NO:

ACT DATE	JOB #	CD	DESC.	PHASE: 1	%IMPEDANCE: 2.50
03 09 87	10301	01	INSTALLED	2ND HAND: N	WEIGHT(LB):
01 25 87	27857	02	REMOVED		
01 28 87	99910	04	SHIPPED TO SHOP	MAINT: 02 04 87	PURCH: 1947 00
06 16 71	24858	01	INSTALLED	REWIND:	NEW: 1947 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS6K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: A11-06E
TRANSFORMER CO #: 03494 MOUNT: 80
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #
PO #: DATE :

SERIAL #: 00003936632 PRI PHS : A ID NO
MFG CODE: 02 WESTINGHOUSE SHOP USE: 00
PRI VOLT: 02 2400 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 03 SIDE WALL DIV/YARD: 00 TRANSFORMER SHOP 10
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -48 12 07 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
12 07 87	99910	04	SHIPPED TO SHOP
04 28 87	10459	01	INSTALLED
01 30 87	10111	02	REMOVED
01 17 58	06134	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.80
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1947 00
REWIND: NEW: 1947 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSOK
PRINTED BY E42620 MA71EE

COMMAND: P PAGE 1 OF 1 MAP #: B11-12D
TRANSFORMER CD #: 04063 MOUNT: 394
SIZE: 0025 9 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00004153424 PRI PHS : A ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE:
PRI VOLT: 02 2400 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 03 SIDE WALL DIV/YARD: 10 CENTRAL 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN:
INSUL CD: 1 OIL OIL(GAL): PCB IN) 46 0 22 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0
#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.80
2ND HAND: N WEIGHT(LB):

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
06 01 87	10531	01	INSTALLED
05 04 87	99910	04	SHIPPED TO SHOP
11 10 86	24828	02	REMOVED
12 12 86	99910	04	SHIPPED TO SHOP

MAINT 03 05 87 PURCH: 1234 00
REWIND: NEW: 1943 00
REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155

PRINTED BY 362620

COMMAND: P PAGE 1 OF 1 MAP #: C61-35B
TRANSFORMER CO #: 09303 MOUNT: 421
SIZE: 0025.0 MODE X (A, C, D, P, R) JOB #:
CO #: DATE :

SERIAL #: 00000C36969 PRI PHS : A ID NO:
MFG CODE: 07 KUHLMAN SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 20 WILLAMETTE VALLEY 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
03 10 87	48234	01	INSTALLED
01 26 87	99950	04	SHIPPED TO SHOP
01 22 87	81477	02	REMOVED
04 20 55	89270	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 02 05 87 PURCH: 1955 00
REWIND: NEW: 1955 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62630 #47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 09650 MOUNT:
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 000S55D0926 PRI PHS : ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE: 53 BURNED-OUT TRANSFORMER
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 40
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
01 22 87	53127	02	REMOVED
01 27 87	99940	04	SHIPPED TO SHOP
01 19 68	62225	01	INSTALLED
01 07 72	26302	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.20
2ND HAND: N WEIGHT(LB):

MAINT: PURCH: 1955 00
REWIND: NEW: 1955 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS6K
PRINTED BY E62620 M47:35

COMMAND: P PAGE 1 OF 1 MAP #: D33-05
TRANSFORMER CO #: 10112 MOUNT: 2281
SIZE: 0025 0 MODE X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00001561393 PRI PHS : A ID NO:
MFG CODE: 04 LINE MATERIAL SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 60 OREGON CITY 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 13 87	10691	01	INSTALLED
11 17 86	27854	02	REMOVED
01 26 87	10147	02	REMOVED
01 28 87	99910	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 02 05 87 PURCH: 1935 00
REWIND: NEW: 1935 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47155

COMMAND: A PAGE 1 OF 1 MAP #: C11-353
TRANSFORMER CO #: 10126 MOUNT 6792
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE

SERIAL #: 00000C55188 PRI PHS : C ID NO:
MFG CODE: 07 KUHLMAN SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 06
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
07 15 87	53875	01	INSTALLED
09 04 86	99910	04	SHIPPED TO SHOP
01 25 87	27894	02	REMOVED
01 30 87	99910	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1955 00
REWIND: NEW: 1955 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: C11-04B
TRANSFORMER CO #: 11005 MOUNT: 4464
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 000S56F2323 PRI PHS : B ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 12 22 86
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
04 06 87	07871	01	INSTALLED
12 22 86	99950	04	SHIPPED TO SHOP
12 15 86	81323	02	REMOVED
08 22 56	81104	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.20
2ND HAND: N WEIGHT(LB):
MAINT: 02 06 87 PURCH: 1956 00
REWIND: NEW: 1956 00

REMARKS:

UPDTE TRANSFORMER MASTER - UPDATE 12-17-87 T#P38K
PRINTED BY E62620 MAT 35

COMMAND: P PAGE 1 OF 1 MAP #: 011-080
TRANSFORMER CO #: 11185 MOUNT: 155
SIZE: 0025 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00000C85402 PRI PHS : A ID NO:
MFG CODE: 07 KUHLMAN SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 12 19 86
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT	DATE	JOB #	CD	DESC.
02	19 87	53235	01	INSTALLED
12	17 86	27976	02	REMOVED
12	19 86	99910	04	SHIPPED TO SHOP
03	18 57	05784	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 03 06 87 PURCH: 1957 00
REWIND: NEW: 1957 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS6K
PRINTED BY E62/20 M47:55

COMMAND: P PAGE 1 OF 1 MAP #: D14-32B
TRANSFORMER CO #: 18787 MOUNT: 1240
SIZE: 0010 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0000338-098 PRI PHS : B ID NO:
MFG CODE: 03 ALLIS CHALMERS SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 50 GRESHAM 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
04 22 87	81818	01	INSTALLED
01 12 87	48018	02	REMOVED
01 28 87	99920	04	SHIPPED TO SHOP
06 12 69	00000	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.80
2ND HAND: N WEIGHT(LB):

MAINT: 02 04 87 PURCH: 1944 00
REWIND: NEW: 1944 00

REMARKS:

UPDTE , TRANSFORMER MASTER UPDATE 12-17-87 T#PS8X
PRINTED BY K62620 M47153

COMMAND: P PAGE 1 OF 1 MAP #: 000 00
TRANSFORMER CO #: 19583 MOUNT:
SIZE: 0010 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0000F253454 PRI PHS : ID NO:
MFG CODE: 01 G. E. SHOP USE: 53 BURNED-OUT TRANSFORMER
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 20
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 10 THERMAL OVLD INDC-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
01 28 87	99920	04	SHIPPED TO SHOP
01 24 87	48552	02	REMOVED
12 20 62	49125	01	INSTALLED
12 23 86	99920	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.60
2ND HAND: N WEIGHT(LB):

MAINT: PURCH: 1962 00
REWIND: NEW: 1962 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155

PRINTED BY E62120

COMMAND: P PAGE 1 OF 1 MAP #: 000-00

TRANSFORMER CO #: 22189 MOUNT:

SIZE: 0010.0 MODE: X (A, C, I, P, R) JOB #:

PO #: DATE :

SERIAL #: 0065AM10653 PRI PHS : ID NO:

MFG CODE: 02 WESTINGHOUSE SHOP USE: 53 BURNED-OUT TRANSFORMER

PRI VOLT: 03 7200 USE CD : 00

SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED

BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 50

TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS

CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.

INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87

TAP POSN: 1 NO TAP TAP SETG: OUT)

FUSE SIZE: %TAPS: 0.0

H I S T O R Y #TAPS: 0 SECTION NO:

ACT DATE	JOB #	CD	DESC.	PHASE: 1	%IMPEDANCE: 1.50
01 26 87	99950	04	SHIPPED TO SHOP	2ND HAND: N	WEIGHT(LB):
01 21 87	80462	07	REMOVED		
04 27 66	81172	01	INSTALLED	MAINT:	PURCH: 1966 00
				REWIND:	NEW: 1966 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47152

COMMAND: P PAGE 1 OF 1 MAP #: D15-320
TRANSFORMER CO #: 28670 MOUNT: 158
SIZE: 0010 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0K497764K72 PRI PHS : C ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 50 GRESHAM 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN: 7 - TAPS TAP SETG: 7200 OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 10 87	81894	01	INSTALLED
01 27 87	99940	04	SHIPPED TO SHOP
10 31 86	69279	02	REMOVED
07 19 73	52892	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.60
2ND HAND: N WEIGHT(LB):
MAINT: 02 04 87 PURCH: 1972 00
REWIND: NEW: 1972 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSOK
PRINTED BY E62620 MAT15E

COMMAND P PAGE 1 OF 1 MAP #: 811-27
TRANSFORMER CO #: 07363 MOUNT: 750
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00001318778 PRI PHS : C ID NO:
MFG CODE: 06 MOLONEY SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 12 22 86
TAP POSN: 7 - TAPS TAP SETG: 7200 OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 13 87	53391	01	INSTALLED
12 22 86	99950	04	SHIPPED TO SHOP
12 15 86	81012	02	REMOVED
06 12 64	08033	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1953 00
REWIND: NEW: 1953 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS3K
PRINTED BY E62620 M47:55

COMMAND: P PAGE 1 OF 1 MAP #: C11-048
TRANSFORMER CO #: 08174 MOUNT: 4463
SIZE: 6015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00001335811 PRI PHS : C ID NO:
MFG CODE: 04 LINE MATERIAL SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 12 15 86
TAP POSN: 7 - TAPS TAP SETG: 7200 OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
04 15 87	07871	01	INSTALLED
12 15 86	99950	04	SHIPPED TO SHOP
12 10 86	81315	02	REMOVED
06 21 54	88149	01	INSTALLED

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.30
2ND HAND: N WEIGHT(LB):

MAINT: 02 05 87 PURCH: 1954 00
REWIND: NEW: 1954 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 025-06C
TRANSFORMER CO #: 00320 MOUNT: 804
SIZE: 00-5 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00000C16243 PRI PHS : C ID NO:
MFG CODE: 07 KUHLMAN SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 50 GRESHAM 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 16 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
03 11 87	81129	01	INSTALLED
10 23 86	66488	02	REMOVED
01 16 87	99910	04	SHIPPED TO SHOP
01 08 87	27931	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.60
2ND HAND: N WEIGHT(LB):
MAINT: 02 06 07 PURCH: 1954 00
REWIND: NEW: 1954 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: D21-108
TRANSFORMER CO #: 11015 MOUNT: 578
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0000S57F247 PRI PHS : B ID NO:
MFG CODE: 02 WESTINGHOUSE SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 02 87
TAP POSN: 1 NO TAP TAP SETG OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
02 25 87	27270	01	INSTALLED
11 18 86	07071	06	NEWLY ACQUIRED TRFMR
02 06 87	99910	04	SHIPPED TO SHOP
12 29 86	48048	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.20
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1957 00
REWIND: NEW: 1957 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PSOK
PRINTED BY C62620 M47155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 12498 MOUNT:
SIZE: 0015.0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0000E241999 PRI PHS : ID NO:
MFG CODE: 01 G. E. SHOP USE: 53 BURNED-OUT TRANSFORMER
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 40
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 02 BREAKER CP SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 27 87
TAP POSN 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
01 20 87	66915	02	REMOVED
01 27 87	99940	04	SHIPPED TO SHOP
12 28 59	52344	01	INSTALLED
12 10 86	99920	04	SHIPPED TO SHOP

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.40
2ND HAND: N WEIGHT(LB):

MAINT: PURCH: 1959 00
REWIND: NEW: 1959 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M4 155

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 14073 MOUNT:
SIZE: 0015 0 MODE: X (A, C, D, F, R) JOB #:
PO #: DATE
SERIAL #: 00005R54164 PRI PHS : ID NO:
MFG CODE: 05 WAGNER SHOP USE: 53 BURNED-OUT TRANSFORMER
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 00 TRANSFORMER SHOP 40
TYPE CD: 1 OVERHEAD STATUS : 3 INACTIVE - IN PROCESS
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
01 28 87	99940	04	SHIPPED TO SHOP
01 19 87	48442	02	REMOVED
12 15 61	66701	01	INSTALLED

$TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 2.00
2ND HAND: N WEIGHT(LB):
MAINT: PURCH: 1941 00
REWIND: NEW: 1941 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155
PRINTED BY E62620

COMMAND: P PAGE 1 OF 1 MAP #: D45-06
TRANSFORMER CO #: 22096 MOUNT: 215
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 00003169643 PRI PHS : A ID NO:
MFG CODE: 07 KUHLMAN SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 50 GRESHAM 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 1 NO TAP TAP SETG: OUT:
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
03 02 87	81445	01	INSTALLED
09 23 86	81107	02	REMOVED
01 28 87	99920	04	SHIPPED TO SHOP
01 20 87	48416	02	REMOVED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.30
2ND HAND: N WEIGHT(LB):

MAINT 02 05 87 PURCH: 1971 00
REWIND: NEW: 1971 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155
PRINTED BY EA3620
COMMAND: P PAGE 1 OF 1 MAP #: D13-10A
TRANSFORMER CO #: 2274: MOUNT: 3478
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 071VJ220014 PRI PHS : C ID NO:
MFG CODE: 33 MCGRAW-EDISON SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 56 GRESHAM 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 26 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: XTAPS: 0.0
#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.60
2ND HAND: N WEIGHT(LB):

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
03 03 87	81785	01	INSTALLED
01 26 87	99950	04	SHIPPED TO SHOP
01 19 87	81312	02	REMOVED
05 17 84	87585	01	INSTALLED

MAINT: 02 04 87 PURCH: 1972 00
REWIND: NEW: 1972 00
REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155
PRINTED BY E62620

COMMAND: P PAGE 1 OF 1 MAP #: 000-00
TRANSFORMER CO #: 25379 MOUNT:
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :
SERIAL #: 00064SA1687 PRI PHS : ID NO:
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 06 12000 USE CD : 00
SEC VOLT: 02 120 OWNR CD : 1 PGE OWNED
BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 40
TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK
CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 28 87
TAP POSN: 7 - TAPS TAP SETG: 11100 OUT)
FUSE SIZE: %TAPS: 2.5

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
05 06 87	53597	02	REMOVED
05 12 87	99940	04	SHIPPED TO SHOP
05 01 87	53540	01	INSTALLED
01 13 87	24537	02	REMOVED

REMARKS: MULT. 4-27-87

#TAPS: 4 SECTION NO:
PHASE: 1 %IMPEDANCE: 1.80
2ND HAND: N WEIGHT(LB):
MAINT: 05 14 87 PURCH: 1964 00
REWIND: NEW: 1964 00

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
M47155

PRINTED BY E62620

COMMAND: P PAGE 1 OF 1 MAP #: 000-00

TRANSFORMER CO #: 25714 MOUNT:

SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:

PO #: DATE :

SERIAL #: 00068AF5047 PRI PHS : ID NO:

MFG CODE: 02 WESTINGHOUSE SHOP USE:

PRI VOLT: 03 7200 USE CD : 00

SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED

BUSHINGS: 02 TWO COVER DIV/YARD: 00 TRANSFORMER SHOP 10

TYPE CD: 1 OVERHEAD STATUS : 2 INACTIVE - IN STOCK

CLASS CD: 01 CONVENTIONAL SEC BUS : POSN.

INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87

TAP POSN: 7 - TAPS TAP SETG: OUT)

FUSE SIZE: %TAPS: 2.5

H I S T O R Y #TAPS: 4 SECTION NO:

ACT DATE	JOB #	CD	DESC.	PHASE: 1	%IMPEDANCE: 1.60
03 04 87	99910	04	SHIPPED TO SHOP	2ND HAND: N	WEIGHT(LB):
01 30 87	10000	02	REMOVED		
01 30 87	99910	04	SHIPPED TO SHOP	MAINT: 02 06 87	PURCH: 1968 00
10 25 73	05476	01	INSTALLED	REWIND:	NEW: 1968 00

REMARKS:

UPDTE TRANSFORMER MASTER UPDATE 12-17-87 T#PS8K
PRINTED BY E62620 M47:53

COMMAND: P PAGE 1 OF 1 MAP #: B11-10D
TRANSFORMER CO #: 27465 MOUNT: 522
SIZE: 0015 0 MODE: X (A, C, D, P, R) JOB #:
PO #: DATE :

SERIAL #: 0L230080K74 PRI PHS : ID NO
MFG CODE: 01 G. E. SHOP USE:
PRI VOLT: 03 7200 USE CD : 00
SEC VOLT: 01 120/240 OWNR CD : 1 PGE OWNED
BUSHINGS: 01 SINGLE COVER DIV/YARD: 40 WESTERN 00
TYPE CD: 1 OVERHEAD STATUS : 1 ACTIVE - IN SERVICE
CLASS CD: 11 CONVENTIONAL-FUSED SEC BUS : POSN.
INSUL CD: 1 OIL OIL(GAL): PCB IN) -50 01 30 87
TAP POSN: 1 NO TAP TAP SETG: OUT)
FUSE SIZE: %TAPS: 0.0

H I S T O R Y

ACT DATE	JOB #	CD	DESC.
02 20 87	21549	01	INSTALLED
01 30 87	99910	04	SHIPPED TO SHOP
11 03 86	52795	02	REMOVED
03 06 74	05486	01	INSTALLED

#TAPS: 0 SECTION NO:
PHASE: 1 %IMPEDANCE 1.60
2ND HAND: N WEIGHT(LB):

MAINT: 02 06 87 PURCH: 1974 00
REWIND: NEW: 1974 00

REMARKS:

EXHIBIT 6

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-07
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-01-15

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13235	35358/15KVA	1260/54/42	35.	NON-PCB
13236	1751/100KVA	----	ND	NON-PCB
13237	10705/25KVA	1260/1254	16.	NON-PCB
13238	1750/100KVA	----	ND	NON-PCB
13239	10455/5KVA	1260	4.	NON-PCB
13240	11015/15KVA	----	ND	NON-PCB
13241	11467/5KVA	----	ND	NON-PCB
13242	32920/15KVA	----	ND	NON-PCB
13243	30522/10KVA	----	ND	NON-PCB
13244	18731/15KVA	1260/1254	11.	NON-PCB
13245	19144/25KVA	1260/1254	5.	NON-PCB
13246	5597/50KVA	----	ND	NON-PCB
13247	38309/25KVA	----	ND	NON-PCB
13248	6235/10KVA	1260/1254	29.	NON-PCB

Logged

A

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-20
REVIEWED BY: JAY BETTINESKI
CHEMISTRY SUPERVISOR
REPORT DATE: 87-01-22

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13456	28086/10KVA	1260	90.	PCB-CONTAM
13457	9193/25KVA	1260	288.	PCB-CONTAM
13458	24108/15KVA	1260	***	
13459	3571/75KVA	----	ND	NON-PCB
13460	34379/25KVA	1260	***	
13461	8320/15KVA	----	ND	NON-PCB
13462	T-8527/75KVA	----	ND	NON-PCB
13463	1061/25KVA	1260	***	
13464	T-8526/75KVA	----	ND	NON-PCB
13465	9466/25KVA	1260	336.	PCB-CONTAM
13466	9661/50KVA	----	ND	NON-PCB
13467	5791/37.5KVA	1260	16.	NON-PCB
13468	2312/50KVA	1260/1254	25.	NON-PCB
13469	5991/25KVA	1260	4.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-21
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-01-29

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13477	19696/10KVA	1260/1254	24.	NON-PCB
13478	10222/10KVA	1260/1254	38.	NON-PCB
13479	T631/300KVA	----	ND	NON-PCB
13480	7846/5KVA	1260/1254	28.	NON-PCB
13481	17593/25KVA	----	ND	NON-PCB
13482	16936/10KVA	1260/1254	22.	NON-PCB
13483	13198/5KVA	1260/1254	24.	NON-PCB
13484	9763/5KVA	1260/1254	26.	NON-PCB
13485	10956/70AMP	1260/1254	14.	NON-PCB
13486	T8525/75KVA	----	ND	NON-PCB
13487	41693/25KVA	----	ND	NON-PCB
13488	7826/5KVA	1260/1254	19.	NON-PCB
13489	11577/5KVA	1260/1254	25.	NON-PCB
13490	19804/10KVA	1260	1.	NON-PCB

OREGON [illegible]
14655 S. W. [illegible] SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-26
REVIEWED BY: JAY BETTINESKI
_____, CHEMISTRY SUPERVISOR
REPORT DATE: 87-01-29

OAL SAMPLE NO. 87-2093-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	ANALYZER TYPE	PCB UG/G	EPA CLASSIFICATION
13547	3666/10KVA	1260/1254	203.	PCB-CONTAM
13548	719/50KVA	1260/1242	26.	NON-PCB
13549	7100/15KVA	1254	4.	NON-PCB
13550	18539/75KVA	----	ND	NON-PCB
13551	4063/25KVA	1260/1242	46.	NON-PCB
13552	4013/[illegible]	----	ND	NON-PCB
13553	25607/10KVA	1254	7.	NON-PCB
13554	14487/50KVA	----	ND	NON-PCB
13555	19301/15KVA	1254	<1.	NON-PCB
13556	33462/15KVA	----	ND	NON-PCB
13557	7681/75KVA	----	ND	NON-PCB
13558	25605/10KVA	1254	7.	NON-PCB
13559	7680/75KVA	----	ND	NON-PCB
13560	24684/25KVA	----	ND	NON-PCB

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BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-28
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-06

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13637	8532/75KVA	----	ND	NON-PCB
13638	4954/100KVA	----	ND	NON-PCB
13639	4955/100KVA	----	ND	NON-PCB
13640	8529/75KVA	----	ND	NON-PCB
13641	8537/75KVA	----	ND	NON-PCB
1-26 13642	8528/75KVA	----	ND	NON-PCB
13643	19193 19195/25KVA	1260	2.	NON-PCB
13644	1906/37.5KVA	1260	6.	NON-PCB
13645	7028/5KVA	1260/1254	84.	PCB-CONTAM
13646	8531/75KVA	----	ND	NON-PCB
13647	22741/15KVA	1260/54/42	26.	NON-PCB
13648	1904/37.5KVA	1260	<1.	NON-PCB
13649	14416/5KVA	1260	***	
13650	8765/50KVA	1260/1254	17.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-28
REVIEWED BY: JAY BETTINESKI
CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-06

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13651	9884/5KVA	1260/1254	31.	NON-PCB
13652	6835/5KVA	1260/1254	29.	NON-PCB
13653	30055/15KVA	----	ND	NON-PCB
13654	10975/5KVA	1260/1254	29.	NON-PCB
13655	8479/5KVA	1260/1254	26.	NON-PCB
13656	22189/10KVA	----	ND	NON-PCB
13657	11018/5KVA	1260/1254	28.	NON-PCB
13658	11836/15KVA	1260/1254	22.	NON-PCB
13659	11014/5KVA	1260/1254	28.	NON-PCB
13660	8530/75KVA	----	ND	NON-PCB
13661	9503/25KVA	----	ND	NON-PCB
13662	14425/5KVA	1260/1254	43.	NON-PCB
13663	9564/5KVA	1260/1254	28.	NON-PCB
13664	8330/5KVA	1260/1254	26.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

DATE RECEIVED: 87-01-29
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-06

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13665	16929/25KVA	1260/1254	31.	NON-PCB
13666	7458/10KVA	1260/1254	43.	NON-PCB
13667	8954/10KVA	1260/1254	15.	NON-PCB
13668	30442/25KVA	1260/1254	30.	NON-PCB
13669	5008/25KVA	1260/1254	65.	PCB-CONTAM
13670	14796/15KVA	1260/1254	15.	NON-PCB
13671	24537/25KVA	1260/1242	35.	NON-PCB
13672	1357/75KVA	1260/1254	40.	NON-PCB
13673	28670/10KVA	----	ND	NON-PCB
13674	12498/15KVA	1260	2.	NON-PCB
13675	27653/10KVA	1260/1254	14.	NON-PCB
13676	9650/25KVA	1260/1242	39.	NON-PCB
13677	30416/25KVA	1254/1260	11.	NON-PCB
13678	13196/50KVA	1260/1254	20.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-01-30
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-06

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13708	18987/10KVA	1260	<1.	NON-PCB
13709	289/167KVA	1260	2.	NON-PCB
13710	19588/10KVA	1260/1254	2.	NON-PCB
13711	14073/15KVA	1260	36.	NON-PCB
13712	25234/50KVA	----	ND	NON-PCB
13713	22096/15KVA	----	ND	NON-PCB
13714	19177/25KVA	1254/1260	11.	NON-PCB
13715	26584/10KVA	----	ND	NON-PCB
13716	287/167KVA	1260	2.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-02-02
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-10

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13839	9466/25KVA	1260	2.	NON-PCB
13840	5257/10KVA	1260	***	
13841	6909/37.5KVA	1260	<1.	NON-PCB
13842	6338/50KVA	1260	12.	NON-PCB
13843	9193/25KVA	1260	<1.	NON-PCB

OREGON ANALYTICAL LABORATORY
14655 S. W. OLD SCHOLLS FERRY RD
BEAVERTON, OREGON 97007
TELEPHONE: (503) 644-5300

PCB TEST REPORT

TRANSFORMER SHOP

DATE RECEIVED: 87-02-03
REVIEWED BY: JAY BETTINESKI
_____ CHEMISTRY SUPERVISOR
REPORT DATE: 87-02-10

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
13845	36442/25KVA	1260/1254	25.	NON-PCB
13846	24690/15KVA	1260/1254	40.	NON-PCB
13847	24577/15KVA	1260/54/42	44.	NON-PCB
13848	17944/25KVA	1260	<1.	NON-PCB
13849	27465/15KVA	----	ND	NON-PCB
13850	25714/15KVA	1260/54/42	41.	NON-PCB
13851	10126/25KVA	1260	1.	NON-PCB
13852	29061/10KVA	1242/1260	85.	PCB-CONTAM
13853	15757/50KVA	----	ND	NON-PCB
13854	7603/5KVA	1260/1254	40.	NON-PCB
13855	7111/10KVA	1260/1254	16.	NON-PCB
13856	T780/500KVA	----	ND	NON-PCB

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
12874	8195/25KVA	1260/1254	11.	NON-PCB
12875	8176/15KVA	----	ND	NON-PCB
12876	8157/25KVA	1260/1254	62.	PCB-CONTAM
12877	38305/15KVA	----	ND	NON-PCB
12878	20897/25KVA	----	ND	NON-PCB
12879	30307/500KVA	1260/54/42	14.	NON-PCB
12880	5570/10KVA	1260/1242	43.	NON-PCB
12881	37609/140AMP	1260/54/42	31.	NON-PCB
12882	938/75KVA	1260	2.	NON-PCB
12883	17082/15KVA	1260	<1.	NON-PCB
12884	T-913/150KVA	----	ND	NON-PCB
12885	10289/10KVA	1260/1242	91.	PCB-CONTAM
12886	698/75KVA	1260/1254	49.	NON-PCB
12887	T-780/500KVA	----	ND	NON-PCB

X

Logged

ND = NONE DETECTED (<0.5 UG/G)

R.KITCHING, M.SMITH
CSC CSC ST62

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
12999	39408/15KVA	----	ND	NON-PCB
13000	27337/25KVA	----	ND	NON-PCB
13001	16009/15KVA	1260	2.	NON-PCB
13002	11005/25KVA	----	ND	NON-PCB
13003	9491/5KVA	----	ND	NON-PCB
13004	37775/15KVA	----	ND	NON-PCB
13005	T-208/112KVA	1260/1254	13.	NON-PCB
13006	7080/15KVA	1260/54/21	352.	PCB-CONTAM
13007	7363/15KVA	1260/54/42	38.	NON-PCB
13008	46890/25KVA	----	ND	NON-PCB
13009	6309/3KVA	1260/1254	41.	NON-PCB
13010	BOTTLE 3	1242/1260	590,000.	NON-PCB
13011	BOTTLE 4	----	ND	NON-PCB
13012	10289/10KVA	1260	3.	NON-PCB

LOGGED

ND = NONE DETECTED ((0.5 UG/G)

R.KITCHING, M.SMITH
CSC CSC ST62

OAL SAMPLE NO. 47-2003-	TRANSFORMER NO. OR SAMPLE IDENTIFICATION	AROCLOR TYPE	PCB UG/G	EPA CLASSIFICATION
12982	24253/15KVA	1260/1254	187.	PCB-CONTAM
12983	27832/10KVA	1260	6.	NON-PCB
12984	8364/37.5KVA	1260	9.	NON-PCB
12985	40146/25KVA	----	ND	NON-PCB
12986	T-111/1500KV	----	ND	NON-PCB
12987	952/37.5KVA	1260	70.	PCB-CONTAM
12988	24135/15KVA	1260	150.	PCB-CONTAM
12989	11785/25KVA	----	ND	NON-PCB
12990	27831/10KVA	1260	8.	NON-PCB
12991	8690/25KVA	1260	13.	NON-PCB
12992	27827/10KVA	1260	88.	PCB-CONTAM
12993	7249/15KVA	1260	15.	NON-PCB
12994	TANK 4	1260/1254	11.	NON-PCB

LOGGED

ND = NONE DETECTED (<0.5 UG/G)

R.KITCHING, CSC

M.SMITH CSC ST62

NO.:D85034X.R01

TRANSFORMER SHOP

PORTLAND GENERAL ELECTRIC CO.
ANALYTICAL SERVICES
SAMPLE DATA SHEET

E GROUP NO. 47-2003 DESCRIPTION INSUL OIL PCB DATE LOGGED IN 850117
F SAMPLES 08 NO. OF TESTS 01

B .	TEST RESULTS DESCRIPTION		SAMPLES AND TEST RESULTS					
			3418	3419	3420	3421	3422	3423
			1805/25	6260/25	3969/37.5	T-734/500	3494/25	24823/70
			850118	850118	850118	850118	850118	850118
7	PCB	PPM	48.	<5.	42.	<5.	37.	32.

ES-064-88L
GEN GOV REL 8

TELEPHONE MEMO

TO: File

FROM: Dennis Norton

DATE: February 3, 1988

SUBJECT: TSCA Violation Telephone Conversation/EPA

Participants:

EPA	PGE
Joan Shirley	Lavinia Wihtol
Elaine Barrick	George Normine
	Earl Wood
	Dennis Norton

A conference call was set up on February 3, 1988 with representatives of EPA to review the additional information submitted as a result of questions asked during the December 17 1987 conference call. Each of the eleven alleged violations was reviewed based on previous information supplied. In accordance with previous discussions violations 1, 2, 10 and 11 were dismissed. Violations 6 and 8 will result in an assessed penalty of $3,500 and violations 7 and 9 had the penalty amount reduced to $2,000.

The main topics of todays discussion were the following violations:

Violation 3 Penalty $20,000

EPA acknowledged receipt of information including substation logs which indicated that the substations containing PCB transformers had been visited on a quarterly basis. After considerable discussion on how PGE met the intent of the PCB transformer inspection requirements EPA indicated that they had given us as much benefit as they could in this regard. However, they require greater thoroughness in the record that the inspection was done for each transformer for leaks and that no leaks were observed.

Disposition Penalty reduced 50% to $10,000

Violation 4 Penalty $20,000

The information submitted on December 28, 1987 substantiated that notification was made to property owners adjacent to PCB transformers.

Disposition Penalty dismissed

Violation 5 Penalty $20,000

Information submitted to EPA on December 28, 1987 demonstrated the process the transformer shop goes through in testing for PCB and labeling retrofilled transformers. The information showed that during the PCB inspection all transformers in the shop were less than 50 ppm and therefore application of a non-PCB label was warranted.

Disposition Penalty dismissed

EPA representatives also indicated that PGE had been very cooperative in providing information concerning PCB handling processes, therefore the penalty was reduced by an additional 15%. The following is the final summary of the PCB violation penalty assessment.

Penalties	Penalty Dismissed
$13,175	69,875

DMN:slc

c: Floyd Bechtel
John Chapman
Rick Hess
Walt Higgins
Bill June
Fred Lamoureaux
George Normine
Karen Rierson
Lavinia Wihtol
Earl Wood

es 1409

ES-010-87M
GEN GOV REL 8

MEMORANDUM

TO: File

FROM: Dennis Norton

DATE: December 28, 1987

SUBJECT: TSCA Violation Telephone Conversation with EPA

Participants: EPA-Joan Shirley - Legal Counsel
Elaine Barrick - Case Reviewer
PGE - Lavinia Wihtol
George Normine
Earl Wood
Dennis Norton.

A conference call was held on December 17, 1987 with representatives of EPA to review the information presented in our November 15, 1987 meeting and the subsequent submittal of information to EPA on December 3, 1987. Each of the alleged violations was reviewed and their current status is as follows:

Violations 1 and Violations 10 — Penalty $1,450

Initially during the reveiw of these violations, EPA stated that they would assess the penalty of $1,450. EPA was reminded that during our November 13, meeting these two violations were dismissed because of explanations provided at that time. After a review of all violations a break was taken during which EPA further reviewed their notes concerning our November 13 meeting and subsequently agreed to dismiss these violations.

Disposition: Penalty dismissed

Violation 2 — Penalty $200

Disposition: Penalty dismissed

Violation 3 — Penalty $20,000

Substation logs were provided to EPA during a November 13th meeting which demonstrated that the quarterly inspection requirements had been fulfilled. EPA acknowledged that the inspections has been performed and that the information is there but, the information is buried in a log and needs to be

available for easy inspection by EPA. PGE countered that all requirements of 40 CFR 761.30cxii were fulfilled and that the quarterly inspection report is mearly a report PGE has developed to make it easier for EPA to review. We acknowledged that some information was missing from this report. It was suggested that this is a minor recordkeeping violation and that the fine should be reduced accordingly. EPA will review their position concerning the level of fine for this violation.

Disposition: Penalty assessment to be reviewed by EPA

Violation 4 Penalty $20,000

EPA acknowledged receipt of the PCB transformer notification to Fire Departments and asked if the reclassification of the transformer in the vault at 5th and Taylor had been completed. They were told that the temperature and PCB tests had been completed, however, this information has not been submitted to the Fire Departments. They also asked if notification letters were sent to the adjacent property owners within 30 meters of PCB transformers. We indicated that letters had been sent and they requested a letter stating this. This violation will be dismissed.

Disposition: Penalty to be dismissed after receipt of additional notification letters.

Violation 5 Penalty $20,000

EPA acknowledged that they understood the information submitted in our December 3, 1987 letter which stated that the only transformers which received non-PCB labels were ones that contained less than 50 ppm PCB before being retrofilled. They reviewed the transformer shop use of non-PCB labels with the inspector. However, he was still of the opinion that PGE was putting non-PCB labels on all transformers that were retrofilled regardless of PCB content. They stated that the inspector was very clear that everything being retrofilled had a non-PCB label put on. PGE stated that this was not the case and that the inspector misunderstood PGE's operation during his inspection. EPA countered that there inspector is extremely reliable and competent and that they would have to go along with the inspectors observation.

EPA also indicated that the inspector noted that PGE did not have a method for accurately tracking the PCB content of the transformers going through the transformer shop. They were told that this was an incorrect observation by the inspector. PGE has a reliable mechanism for tracking transformers. In an effort to reconcile this issue PGE will submit information to EPA concerning the mechanism used to track transformers. We will also send information concerning the PCB content of the transformers in the shop during the inspection. In addition, we stated it was very possible that all transformers in the shop were under 50 ppm since on an annual basis approximately 250 out of 4,800 transformers are PCB contaminated.

Disposition: Additonal information will be sent to EPA.

Violation 6 and 8 — Penalty $3,500

Disposition: Penalty $3,500

Violations 7 and 9 — Penalty $13,000

Information was submitted to EPA which identified the amount of material in the 8 unmarked 55 gallon drums in the Central Storage Area. Based on this information the penalty will be reduced from $13,000 to $2,000.

Disposition: Penalty $2,000

Violation 11 — Penalty $5,000

The certification of destruction was submitted to the EPA in accordance with their request.

Disposition: Penalty Dismissed

The Following is a summary of the PCB Violation Penalty assessment:

Penalties	Penalty Dismissed	Unresolved
$5,500	$37,650	$40,000

Action Items

Violation 4 - Send EPA a letter indicating that notification to property owners in the vicinity of PCB transformers were notified prior to the 1985 notification date.

Violation 5

Send EPA information concerning the transformers that were in the shop during the inspection to demonstrate that these were less than 50 ppm PCB; and to illustrate that PGE has a tracking system capable of following these transformers through the refurbishing process.

cc: Floyd Bechtel
John Chapman
Ken Davis
Rick Hess
Walt Higgins
Bill June
Fred Lamoureaux
George Normine
Karen Rierson
Lavinia Wihtol
Earl Wood

DMN:slc

ES 1333

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WASHINGTON 98101

MAR 28 1988

John Wakefield will handle [illegible] by due date 4-5-88

REPLY TO ATTN OF: SO-125

Mary Ellen Eckhardt
Assistant General Counsel
Legal Department
Portland General Corporation
121 S.W. Salmon Street
Portland, Oregon 97204

Re: Portland General Electric, Docket No. 1087-09-19-2615

Dear Ms. Eckhardt:

Enclosed is a conformed copy of the fully-executed Consent Agreement and Final Order for settlement of the above-referenced matter.

Please note that, while penalty payments are mailed directly to the Pittsburgh, Pennsylvania address in paragraph 13, a copy of the check and transmittal letter must be mailed to the Regional Hearing Clerk here in Seattle at the address in paragraph 14.

The penalty payment of $13,175 is due thirty (30) days from the date (March 25, 1988) that the Order was signed by the Regional Administrator.

Timely payment of that civil penalty will now bring this matter to a close.

Sincerely,

Joan C. Shirley

Joan C. Shirley
Assistant Regional Counsel

Enclosure

cc: Hearing Clerk

Charges:
Fred Lamoureux $ 8500
John Chapman $ 4675
Dennis Stratton
4-4-88

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
BEFORE THE REGIONAL ADMINISTRATOR
Region 10
Seattle, Washington

IN THE MATTER OF:	)	
	)	Docket No. 1087-09-19-2615
PORTLAND GENERAL ELECTRIC,	)	
	)	AGREED ORDER FOR PAYMENT
Respondent.	)	OF CIVIL PENALTIES
	)	

PRELIMINARY STATEMENT

1. This administrative proceeding for the assessment of civil penalties was instituted pursuant to Section 16(a) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2615(a).

2. Informal settlement conferences were held on November 5, November 13, and December 17, 1987, and on February 3, 1988. As a result of those conferences, and other written and oral communications, it was agreed to resolve this matter by executing this Agreed Order.

AGREEMENT

3. Respondent admits the jurisdictional allegations of the Complaint.

4. Respondent neither admits nor denies the Findings of Fact stipulated in the Agreed Order.

Form OBD-183
12-8-76 DOJ

5. Respondent neither concedes nor contests the Conclusions of Law contained in this Agreed Order.

6. Respondent explicitly waives the right to request an adjudicatory hearing on any issue contained in this agreement.

7. Respondent consents to the issuance of the Final Order hereinafter recited.

FINDINGS OF FACT

8. On February 4-6, 1987, an EPA inspection was performed at the facilities of Portland General Electric Company in Portland, Oregon. Information from that inspection, and information exchanged at the settlement conferences and in oral and written communications indicates the following:

a. Violation One is dismissed because Respondent has provided verification that annual reports for 1982, 1983, and 1984 were accurate as to number of PCB Transformers reported removed and number remaining in service.

b. Violation Two is dismissed because Respondent has provided verification that the apparent discrepancy in the 1985 annual report was a transcription error.

c. Violation Three is reduced by a half because Respondent supplied documentation that demonstrated that the required quarterly inspection reports were only partially deficient.

d. Violation Four is dismissed because Respondent provided documentation verifying compliance with all the required notices.

e. Violation Five is dismissed because Respondent provided documentation to show that it retrofilled but did not reclassify its transformers.

f. Violation Six stands as alleged in the complaint.

g. Violation Seven was recalculated based on additional information supplied regarding the more accurate volume of PCB material contained in each drum.

h. Violation Eight stands as alleged in the complaint.

i. Violation Nine was recalculated based on additional information supplied regarding the more accurate volume of PCB material contained in each drum.

j. Violation Ten is dismissed because Respondent supplied satisfactory information on the sufficient nature of the containment.

k. Violation Eleven is dismissed because Respondent has provided documentation that the barrels were properly disposed of in accordance with the applicable regulations.

CONCLUSIONS OF LAW

9. Based on the foregoing, and pursuant to the authority of TSCA Section 16(a)(2), 15 U.S.C. § 2615, EPA hereby determines that Respondent has violated TSCA Section 15, 15 U.S.C. § 2614, and the regulations promulgated thereunder, and thereby has incurred civil liability to EPA pursuant to TSCA Section 16, 15 U.S.C. § 2615(a).

10. By signature on this Agreed Order, Respondent waives any right to an appeal of this proceeding.

Form OBD-183
12-8-76 DOJ

ORDER

IT IS HEREBY ORDERED and ADJUDGED as follows:

11. In consideration of Respondent's cooperative attitude and consistent with EPA's penalty policy, EPA agrees to mitigate the penalty imposed.

12. Respondent shall pay to EPA the amount of THIRTEEN THOUSAND ONE HUNDRED SEVENTY-FIVE DOLLARS ($13,175.00) as a civil penalty which is hereby assessed and imposed against it. Payment shall be made within thirty (30) days of the date of this Order.

13. Payment of this penalty shall be made by cashier's or certified check or money order payable to the "Treasurer of the United States," and mailed to:

U.S. Environmental Protection Agency
(Regional Hearing Clerk, Region 10)
P.O. Box 360903M
Pittsburgh, Pennsylvania 15251

14. A copy of the check and of the transmittal letter shall be delivered or mailed to the Regional Hearing Clerk at the following address:

Regional Hearing Clerk, Region 10
Office of Regional Counsel
U.S. Environmental Protection Agency
1200 Sixth Avenue, SO-125
Seattle, Washington 98101

DATED this 25th day of March, 1988.

ROBIE G. RUSSELL
Regional Administrator

Form OBD-183
12-8-76 DOJ

Stipulated, Agreed, and
Approved for Entry,
Waiving Notice:

PORTLAND GENERAL ELECTRIC

Dated: 3/17/88

By: _____
WALTER M. HIGGINS
Vice President, Distribution

U.S. ENVIRONMENTAL PROTECTION AGENCY

Dated: March 21, 1988

By: Joan C. Shirley
JOAN C. SHIRLEY
Attorney for Complainant

Form OBD-183
12-8-76 DOJ