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NAS BRUNSWICK
5090.3a

FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 49 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
6/18/2010
NAS BRUNSWICK

**ENVIRONMENTAL DEPARTMENT
NAVAL AIR STATION
437 HUEY DRIVE
BRUNSWICK, ME 04011**

June 18, 2010

Mr. Edward Vigneault
Maine Department of Environmental Protection
Division of Oil and Hazardous Waste Facilities Registration
17 State House Station
Augusta, ME 04333-0017

Subj: Final RCRA Partial Closure Report for Building 49

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 49 at Naval Air Station Brunswick is provided as Enclosure (1).

If you have any questions, please contact Mr. Mike Fagan at 921-1717 or via e-mail at michael.fagan1@navy.mil.

Sincerely,



FOR LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 49

Copy to:
NAVFAC Mid-Atlantic (B. Abraham)
NAS Brunswick (M. Fagan/D. Smith)
EPA Region I (M. Daly)
MRRRA (V. Boundy)
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BRAC PMO NE (P. Burgio)

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 49 – REGULATOR SUBSTATION BUILDING
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
JUNE 2010

1. INTRODUCTION

The purpose of this report is to present the findings and conclusions of the investigation conducted to determine if the Maine Department of Environmental Protection (MEDEP) RCRA or hazardous waste closure requirements have been completed for Building 49 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 49 (Regulator Substation Building) is located in the southern portion of NAS Brunswick (Figure 1) on the west side of Orion Street south of Dyer's Gate (south gate). Building 49 is bordered to the west by the airfield approach area (Figure 2).

Constructed in 1981, the building consists of a 315 square-foot, single-story, concrete-block building on a concrete slab foundation. The unmanned, single-room building was used as a regulator substation housing electrical equipment for the runway lighting system. A small fenced area containing three transformers mounted on a concrete pad is located at the northeastern corner of Building 49. This building is not equipped with a heating system.

Photographs taken during the site visit are provided in an attachment.

3. PROPERTY HISTORY AND RECORDS RESEARCH

The Tetra Tech NUS, Inc. (Tetra Tech) project team interviewed NAS Brunswick Environmental Department personnel and performed records research at both NAS Brunswick and the MEDEP office in Augusta, Maine to collect available information concerning Building 49, including past use and operations at that location.

According to NAS Brunswick Environmental Department personnel, since its construction in 1981, the sole use of Building 49 has been as an electrical regulator substation. There is no record of hazardous waste generation at Building 49.

Records reviewed include: historical aerial photographs; the NAS Brunswick Other Environmental Liabilities (OEL) Database; area-specific reports; facility plans and drawings; and hazardous operation records. Aerial photographs dated 1958, 1978, 1981, 1984, 1989, 1993 and 1997 (all produced by James W. Sewall) were reviewed along with Public Works Department site base maps dated 1943, 1946, 1952, 1956, 1975, 1983, 1989, and 2006 to provide historical information.

Building 49 is shown at the present location in aerial photographs beginning in 1981. Prior to 1981, no buildings are shown; the area is a cleared grass-covered area southeast of the runways.

The NASB Transformer Database lists three non-polychlorinated-biphenyl (PCB)-containing electrical transformers, two regulators, and four switches for Building 49. Information provided in the database for these transformers is listed below. The serial numbers for the Westinghouse-manufactured units indicate that they were manufactured prior to 1979 in the Westinghouse plant in Sharon, Pennsylvania. This plant was known to manufacture transformers with PCB-containing oil; therefore, the transformers at Building 49 could potentially contain PCB-contaminated oil. A date of manufacture for the switches and regulators could not be determined. As of July 1, 1979,

the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB electrical equipment (transformers and capacitors).

Transformer	Manufacturer	Serial No.	Date of Manufacture	Notes
75-kVa non-PCB pad-mounted	Westinghouse	78A441611 ^(1,2)	1978	Located at northeast corner of B49
75-kVa non-PCB pad-mounted	Westinghouse	78A441610 ^(1,2)	1978	Located at northeast corner of B49
75-kVa non-PCB pad-mounted	Westinghouse	78A383893 ^(1,2)	1978	Located at northeast corner of B49

(1) Westinghouse serial numbers are organized as year (two digits), plant code (blank or one letter), month code (one letter), sequential number (ESS, 1998).

(2) Westinghouse, Sharon, Pennsylvania plant manufactured PCB-containing transformers (EES, 1998)

Switch	Manufacturer	Serial No.	Date of Manufacture	Notes
15-kVa non-PCB-containing	G&W Electric	8-80A	Unknown	Oil contains less than 1 ppm PCB ⁽¹⁾
15-kVa non-PCB containing	G&W Electric	8-80B	Unknown	Tested less than 1 ppm PCB
15-KVa non-PCB containing	G&W Electric	8-80C	Unknown	Oil contains less than 1 ppm PCB ⁽¹⁾
Non-PCB wall-mounted	General Electric	S425510	Unknown	Oil contains less than 50 ppm PCB ⁽¹⁾

(1) NAS Brunswick Environmental Department. NASB Removed Transformer Database
ppm – parts per million

Recloser Switch/ Regulator	Manufacturer	Serial No.	Date of Manufacture	Notes
20-kVa non-PCB-containing	Crousehinds	522	Unknown	Removed; Oil contains less than 1 ppm PCB ⁽¹⁾
20-kVa non-PCB containing	Crousehinds	534	Unknown	Removed; Oil contains less than 1 ppm PCB ⁽¹⁾

(1) NAS Brunswick Environmental Department. NASB Removed Transformer Database
ppm – parts per million

According to NAS Brunswick records, no underground storage tanks (USTs) or aboveground storage tanks (ASTs) are associated with Building 49.

According to NAS Brunswick personnel, oil leaked from one the switches located in the northwest interior wall of Building 49 during the April 2010 removal of the switches. The leaked oil was immediately contained within the building and the removed for proper disposal. A sample of the leaked switch oil was tested and determined to be non-PCB-containing. A copy of the switch oil sample analysis report is provided as an attachment to this report.

4. SITE VISIT AND INVESTIGATION

A Building 49 site visit was conducted on February 9, 2010 by Tetra Tech personnel, Mr. Brandon Smith, P.E. and Mr. James Forrelli, P.E. The purpose of the visit was to verify information gathered during the records search and to collect additional information as necessary to prepare this RCRA Partial Closure Report. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. Building 49 was visually inspected for signs of hazardous waste generation or storage activity. Site visit observations, recorded on the attached Building Inspection Form ⁽¹⁾ are summarized below:

- At the time of inspection, Building 49 was in use and in fair condition. Electrical equipment was present in the building.

- No evidence of current or past hazardous waste generation was observed.
- No evidence of hazardous waste residues was observed.
- Staining was observed on the floor in the northwest corner of the building, below the switches. No structural modifications that could conceal signs of a past release were observed.
- No hazardous waste storage or accumulation areas were observed.
- Three pad-mounted transformers were observed in a fenced enclosure at the northeast corner of the building's exterior. No evidence of a past leak from these transformers was observed.

Due to the unknown manufacture date of the regulators and switches at Building 49, there could be potential areas of PCB surface contamination within Building 49, if there had been an historical leak. To evaluate the potential presence of PCB contamination, wipe samples were collected from six locations inside Building 49. On March 11, 2010, Tetra Tech collected two samples [NASB-B49-WP01 and NASB-B49-WP02] from the northwest floor, below the switches. Four samples [NASB-B49-WP03 through NASB-B49-WP06] were collected from the floor around the regulators. Sample locations are presented on Figure 3.

Because the three exterior transformers could potentially contain PCB-contaminated oil, as discussed above, PCB-contaminated soil could be present in the transformer area if there had been an historical transformer leak. To evaluate the soil in this area, surface soil samples were collected on May 6, 2010, from four locations surrounding the transformer pad. A hand auger was used to collect the samples: four were collected from 0 to 6 inches below ground surface (bgs) [NASB-B49-SB01-0006 through NASB-B49-SB04-0006] and four were collected from 6 to 24 inches bgs (NASB-B49-SB01-0624 through NASB-B49-SB04-0624). Sample locations are included on Figure 3.

All wipe and soil samples were submitted for PCB analysis by Tetra Tech's subcontracted analytical laboratory (Analytics Environmental Laboratory, Portsmouth, New Hampshire). Limited validation efforts were conducted for the analytical data, and consisted of field duplicate evaluation, blank contamination evaluation, and completeness evaluation. PCB were not detected in any of the floor wipe sample or the soil samples collected at Building 49 as shown in the analytical results presented in Table 1 and Table 2, respectively. Since the floor wipe samples from the electrical equipment area were negative for PCBs, bulk sampling of the porous concrete flooring is not indicated. The EPA Regional Screening Levels (RSLs) for Residential Soil are included in Table 1 for informational purposes (EPA, 2009).

5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, and NAS Brunswick Environmental Department personnel interviews, with the exception of universal waste, no hazardous waste generation, hazardous waste accumulation, or hazardous waste storage was conducted at Building 49.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No USTs or ASTs were observed in the immediate vicinity of Building 49. There is no installed heat in this building.

7. LIMITATIONS

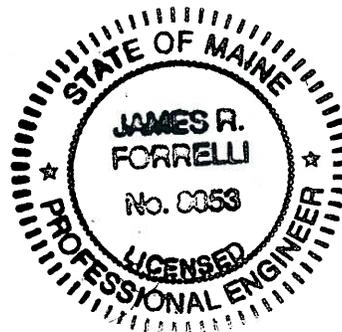
This investigation of the hazardous waste closure requirement applies to the Building 49 footprint (as shown on Figure 2). It does not apply to the land surrounding or the groundwater underlying Building 49.

8. CERTIFICATION

Based on the findings of this investigation, there have been no activities resulting in the generation, accumulation, or storage of hazardous waste at Building 49, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 49 was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.



James Forrelli, P.E.
Senior Project Engineer
Tetra Tech NUS, Inc.



⁽¹⁾ The Building Inspection Form provides preliminary information collected during the building inspection, including information from visual observations, Navy personnel interviews, and from documents reviewed during file reviews. It does not reflect any additional information provided at a later date that further clarifies or corrects preliminary information collected during the building inspection and file reviews.

REFERENCES

BNAS Reuse Master Plan Property Condition Assessment. Mid-Coast Regional Redevelopment Authority, Brunswick, ME. 2006.

EES (Elizabethton Electric System), 1998. QuickSheet Data Table, PCB Information. Prepared by Elizabethton Electric System, June. <http://www.eesonline.org/programs/pcbdata.html>.

James W. Sewall Company, 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. October 9.

James W. Sewall Company, 1978. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. November 22.

James W. Sewall Company, 1981. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME.

James W. Sewall Company, 1984. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. April 23.

James W. Sewall Company, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. April 2.

James W. Sewall Company, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME.

James W. Sewall Company, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME.

NAS Brunswick Environmental Department. Master/Historical Underground Storage Tank Inventory. NAS Brunswick, Maine. 02/05/96.

NAS Brunswick Environmental Department. NASB Removed Transformer Database.

Public Works Department (PWD), 1943. "US Naval Air Station, Brunswick, Maine, Building Site Plan Showing Locations of Underground Water Distribution Lines and Hydrants," NAS Brunswick, Maine. September 4.

PWD, 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30.

PWD, 1952. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1952," NAS Brunswick, Maine. June 30.

PWD, 1956. General Station Map, Enclosure 2. NAS Brunswick, Maine.

PWD, 1975. General Development, Existing and Planned, Operations Area, US Naval Air Station, Brunswick, Maine.

PWD, 1983. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. May 5.

PWD, 1989. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. Revised April 2.

PWD, 2006. Brunswick Naval Air Station, NAS Brunswick, Maine.

U.S. Environmental Protection Agency, 1991. Wipe Sampling and Double Wash/Rinse Cleanup as Recommended by the Environmental Protection Agency PCB Spill Cleanup Policy, June 23, 1987, Revised and Clarified on April 18.

**TABLE 1
WIPE SAMPLE PCB RESULTS
RCRA PARTIAL CLOSURE REPORT
BUILDING 49 – REGULATOR SUBSTATION BUILDING
NAVAL AIR STATION BRUNSWICK, MAINE**

SAMPLE ID	EPA PCB Spill Cleanup Policy ⁽¹⁾	NASB-B49- WP01	NASB-B49- WP02	NASB-B49- WP03	NASB-B49- WP04	NASB-B49- WP05	NASB-B49- WP06
LOCATION		floor below wall-mounted switches northwest corner	floor below wall-mounted switches northwest corner	floor east of north non-PCB regulator	floor between north and south non-PCB regulators	floor east of south non-PCB regulator	floor south of south non-PCB regulator
MATRIX		surface wipe	surface wipe	surface wipe	surface wipe	surface wipe	surface wipe
SAMPLE DATE		3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010
PCB ($\mu\text{g}/100 \text{ cm}^2$)							
Aroclor-1016		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1221		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1232		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1242		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1248		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1254		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor-1260		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Total PCB	10	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

Notes:

(1) Source: U.S. Environmental Protection Agency, Wipe Sampling and Double Wash/Rinse Cleanup as Recommended by The Environmental Protection Agency PCB Spill Cleanup Policy, June 23, 1987, Revised and Clarified on April 18, 1991

Laboratory results reported as micrograms per wipe.

Wipe sample surface area: 100 cm² (10 cm by 10 cm)

$\mu\text{g}/100 \text{ cm}^2$ micrograms per 100 square centimeters

U not detected (with associated detection limit)

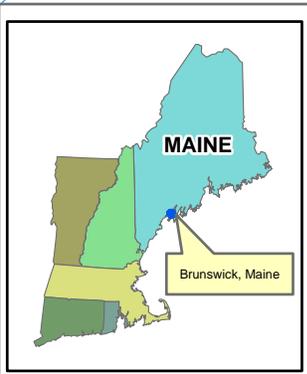
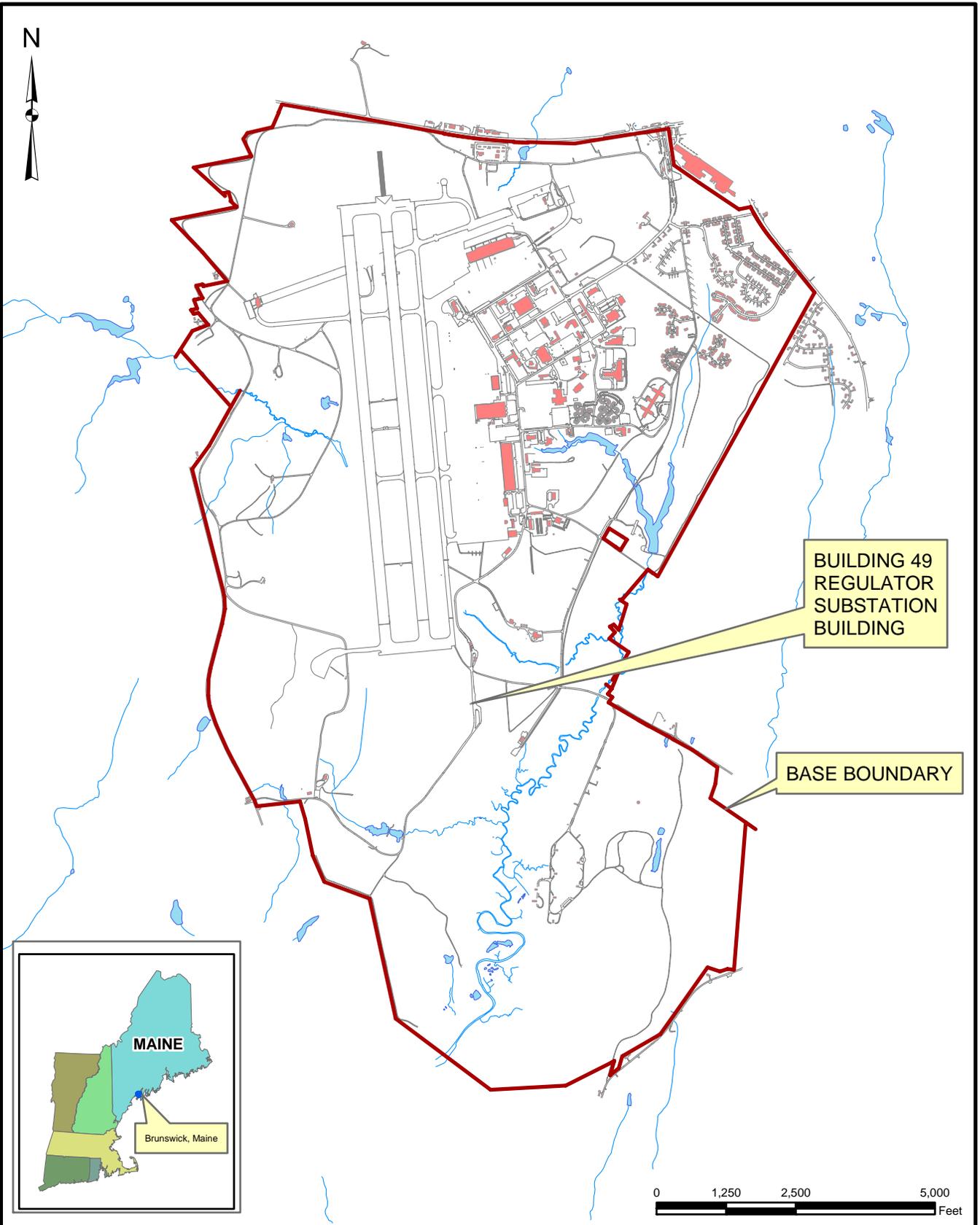
PCB polychlorinated biphenyl

**TABLE 2
SOIL SAMPLE PCB RESULTS
RCRA PARTIAL CLOSURE REPORT
BUILDING 49 – REGULATOR SUBSTATION BUILDING
NAVAL AIR STATION BRUNSWICK, MAINE**

SAMPLE ID	EPA RSLs ⁽¹⁾ (µg/kg)	NASB-B49- SB01-0006	NASB-B49- SB01-0624	NASB-B49- SB02-0006	NASB-B49- SB02-0624	NASB-B49- SB03-0006	NASB-B49- SB03-0624	NASB-B49- SB04-0006	NASB-B49- SB04-0624
LOCATION		transformer pad							
MATRIX		soil							
DEPTH		0-6 inch bgs	6-24inch bgs	0-6 inch bgs	6-24 inch bgs	0-6 inch bgs	6-24 inch bgs	0-6 inch bgs	6-24 inch bgs
SAMPLE DATE		05/06/10	05/06/10	05/06/10	05/06/10	05/06/10	05/06/10	05/06/10	05/06/10
PCB (µg/kg)									
Aroclor-1016	3,900	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1221	140	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1232	140	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1242	220	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1248	220	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1254	220	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Aroclor-1260	220	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U
Total PCB ⁽²⁾	1,000	16.5 U	16.5 U	18 U	20 U	20 U	20 U	20 U	16.5 U

Notes:

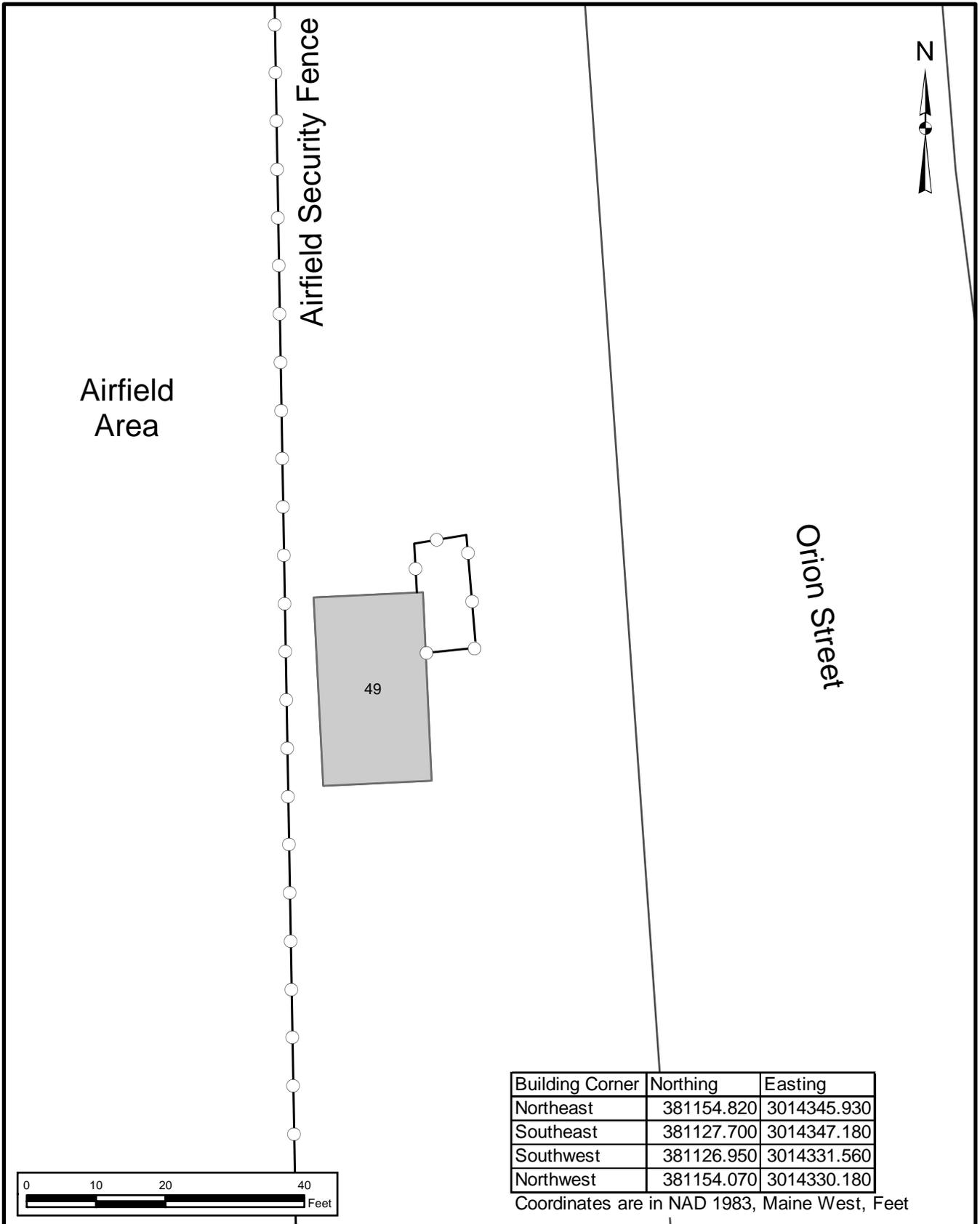
- (1) EPA Regional Screening Levels [RSLs] for residential soil provided for informational purposes
(2) MEDEP action limit for PCB spill (1 mg/kg).
bgs below ground surface
µg/kg micrograms per kilogram
U not detected (with associated detection limit)
PCB polychlorinated biphenyl



Tetra Tech NUS, Inc.

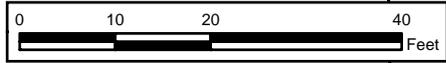
SITE LOCATION MAP
BUILDING 49 - REGULATOR SUBSTATION BUILDING
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\N\ASB_BLDG_49_LOCUS.MXD	
REV 0	DATE 06/09/10
FIGURE NUMBER 1	



Building Corner	Northing	Easting
Northeast	381154.820	3014345.930
Southeast	381127.700	3014347.180
Southwest	381126.950	3014331.560
Northwest	381154.070	3014330.180

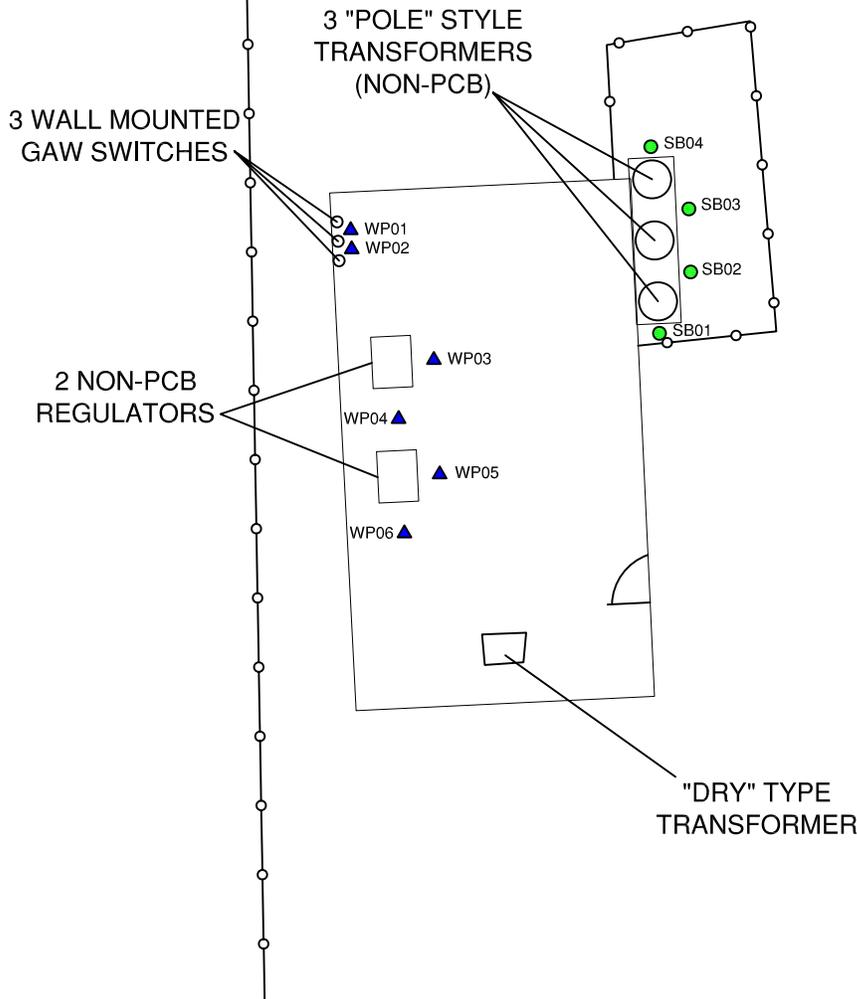
Coordinates are in NAD 1983, Maine West, Feet



 Tetra Tech NUS, Inc.	SITE LOCATION MAP BUILDING 49 - REGULATOR SUBSTATION BUILDING RCRA PARTIAL CLOSURE REPORT NAVAL AIR STATION BRUNSWICK, MAINE	SCALE AS NOTED
		FILE VCP.DR\NASB_BLDG_49_SITE_MAP.MXD
		REV DATE 0 06/49/10
		FIGURE NUMBER FIGURE NO. 2



ORION STREET



LEGEND

- WP01 ▲ WIP02 ▲ WIP03 ▲ WIP04 ▲ WIP05 ▲ WIP06 ▲ WIP07 ▲ WIP08 ▲ WIP09 ▲ WIP10 ▲ WIP11 ▲ WIP12 ▲ WIP13 ▲ WIP14 ▲ WIP15 ▲ WIP16 ▲ WIP17 ▲ WIP18 ▲ WIP19 ▲ WIP20 ▲ WIP21 ▲ WIP22 ▲ WIP23 ▲ WIP24 ▲ WIP25 ▲ WIP26 ▲ WIP27 ▲ WIP28 ▲ WIP29 ▲ WIP30 ▲ WIP31 ▲ WIP32 ▲ WIP33 ▲ WIP34 ▲ WIP35 ▲ WIP36 ▲ WIP37 ▲ WIP38 ▲ WIP39 ▲ WIP40 ▲ WIP41 ▲ WIP42 ▲ WIP43 ▲ WIP44 ▲ WIP45 ▲ WIP46 ▲ WIP47 ▲ WIP48 ▲ WIP49 ▲ WIP50 ▲ WIP51 ▲ WIP52 ▲ WIP53 ▲ WIP54 ▲ WIP55 ▲ WIP56 ▲ WIP57 ▲ WIP58 ▲ WIP59 ▲ WIP60 ▲ WIP61 ▲ WIP62 ▲ WIP63 ▲ WIP64 ▲ WIP65 ▲ WIP66 ▲ WIP67 ▲ WIP68 ▲ WIP69 ▲ WIP70 ▲ WIP71 ▲ WIP72 ▲ WIP73 ▲ WIP74 ▲ WIP75 ▲ WIP76 ▲ WIP77 ▲ WIP78 ▲ WIP79 ▲ WIP80 ▲ WIP81 ▲ WIP82 ▲ WIP83 ▲ WIP84 ▲ WIP85 ▲ WIP86 ▲ WIP87 ▲ WIP88 ▲ WIP89 ▲ WIP90 ▲ WIP91 ▲ WIP92 ▲ WIP93 ▲ WIP94 ▲ WIP95 ▲ WIP96 ▲ WIP97 ▲ WIP98 ▲ WIP99 ▲ WIP100 ▲
- SB01 ● SB02 ● SB03 ● SB04 ● SB05 ● SB06 ● SB07 ● SB08 ● SB09 ● SB10 ● SB11 ● SB12 ● SB13 ● SB14 ● SB15 ● SB16 ● SB17 ● SB18 ● SB19 ● SB20 ● SB21 ● SB22 ● SB23 ● SB24 ● SB25 ● SB26 ● SB27 ● SB28 ● SB29 ● SB30 ● SB31 ● SB32 ● SB33 ● SB34 ● SB35 ● SB36 ● SB37 ● SB38 ● SB39 ● SB40 ● SB41 ● SB42 ● SB43 ● SB44 ● SB45 ● SB46 ● SB47 ● SB48 ● SB49 ● SB50 ● SB51 ● SB52 ● SB53 ● SB54 ● SB55 ● SB56 ● SB57 ● SB58 ● SB59 ● SB60 ● SB61 ● SB62 ● SB63 ● SB64 ● SB65 ● SB66 ● SB67 ● SB68 ● SB69 ● SB70 ● SB71 ● SB72 ● SB73 ● SB74 ● SB75 ● SB76 ● SB77 ● SB78 ● SB79 ● SB80 ● SB81 ● SB82 ● SB83 ● SB84 ● SB85 ● SB86 ● SB87 ● SB88 ● SB89 ● SB90 ● SB91 ● SB92 ● SB93 ● SB94 ● SB95 ● SB96 ● SB97 ● SB98 ● SB99 ● SB100 ●
- FENCELINE



SAMPLE LOCATION MAP
BUILDING 49 - REGULATOR SUBSTATION BUILDING
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE \\.\NASB_BLDG_49_FP.DWG.DWG	
REV 0	DATE 06/11/10
FIGURE NUMBER FIGURE NO. 3	

LEAKED SWITCH OIL ANALYSIS REPORT

ANALYSIS REPORT

Attention: BRUCE SMITH
BRUNSWICK NAVAL AIR STATION
ENVIRONMENTAL
437 HUEY DRIVE
BRUNSWICK ME 04011

Project Number: Non Contracted work
P.O. Number: AM02351
Date Received: 04/15/2010 04:00 PM
Date Reported: 04/27/2010
Analyst: MJC

Sample Matrix: SOLID
Sample Type: Grab
Method: EPA 8082

NEL Sample #	Client ID	Date Collected	AROCLOR	Result	Qualifier	Unit	PQL	Preparation Date/Time	Analysis Date/Time
AM02351	Switch Oil South Vault	04/14/2010 00:00							
			AROCLOR 1016	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1221	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1232	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1242	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1248	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1254	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			AROCLOR 1260	<0.20		mg/Kg	0.20	04/23/2010 12:00	04/23/2010 18:33
			DCB (Surrogate)	89		%	25	04/23/2010 12:00	04/23/2010 18:33
			TCMX (Surrogate)	101		%	18	04/23/2010 12:00	04/23/2010 18:33

* Reporting limits are adjusted for sample weight. Results are expressed on an as received basis.

Comments:

This report shall not be reproduced, except in full, without written permission from Northeast Laboratory Services.

Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By James F. Galasyn Review Date: 04/27/2010
James F. Galasyn, Ph.D., Chemistry Lab Manager

Analytical results and reports are generated by NEL at the request of and for the exclusive use of the person or entity (client) named on this report. Results, reports or copies of same will not be released by NEL to any third party without the prior express written consent from the client named in this report. This report applies only to those samples taken at the time, place and location referenced by the client. This report makes no express or implied warranty or guarantee as to the sampling methodology used by the individual performing the sampling. The client is solely responsible for the use and interpretation of these results and NEL makes no express or implied warranties as to such use or interpretation. NEL is not able to make and does not make a determination as to the environmental soundness, safety or health of a property from only the samples sent to their laboratory for analysis. Unless otherwise specified by the Client, NEL reserves the right to dispose of all samples after the testing of such samples is sufficiently completed or after a thirty-day period, whichever period is greater. NEL liability extends only to the cost of the testing.

**BUILDING INSPECTION FORM
RCRA PARTIAL CLOSURE PROGRAM
NAS BRUNSWICK
BRUNSWICK, MAINE
CTO WE22**

Inspection Date: 2/9/2010

Personnel: James Forrelli, P.E. / Brandon Smith, P.E.

Weather: Clear, 20s

GENERAL BUILDING INFORMATION / USES

Building Name: Regulator Substation Building
 Function: Runway lighting electric distribution
 Size: 315 SF
 Year of Construction: 1981

Building 49 is located in the southern portion at NAS Brunswick, west of Merriconeag Road, north and east of the airfield, and south of Dyers Gate. It was constructed in 1981 and consists of a single store concrete block building on a concrete slab foundation. The building consists of a single room with electrical distribution equipment.

Building 49 was used as a transformer/electrical distribution building since 1981.

No hazardous waste was generated during the operations in Building 49, according to NASB personnel.

Building 49 is currently heated via natural gas.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 49.

At the time of the site visit, the building appeared in fair condition. Electrical equipment was present in the building.

No evidence of current or past hazardous waste generation activities was observed.

No evidence of hazardous waste residues was observed.

Staining was observed on the floor in the northwest corner of the building beneath the GAW switches. No additions, which may conceal signs of a past release, were observed.

No hazardous waste storage areas or hazardous waste accumulation areas were observed.

HAZARDOUS WASTE STORED / GENERATED

No hazardous waste was stored or generated at Building 49, according to NASB personnel.

POTENTIAL PCB-CONTAINING TRANSFORMERS

The following transformers associated with Building 49 were listed in the transformer database:

See attached summary table.

APPLICABLE REPORTS / DOCUMENTS

Available historical plans and aerial photos were reviewed for past property uses:

1943 plan - Area not on plan.
1946 plan - Area not on plan.
1952 plan - Area not on plan.
1956 plan - Merriconeag Road present, no buildings shown.
1958 aerial - No buildings present, area is cleared grass area.

1978 aerial - No buildings present, area is cleared grass area.
1981 aerial - Building 49 in current location.
1983 plan - Merriconeag Road present, no buildings shown.

1984 aerial - Building 49 in current location.

1989 aerial - Building 49 in current location.
1989 plan - Building 49 in current location.
1993 aerial - Building 49 in current location
1997 aerial - Building 49 in current location.
2006 plan - Building 49 in current location.

No USTs or ASTs were present at Building 49, according to NASB records.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 49, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

MISCELLANEOUS NOTES

Tetra Tech personnel were accompanied on the inspection by D. Bruce Smith, NAS Brunswick Hazardous Waste Manager.

Due to presence of historical PCB-containing (>1 ppm PCB) transformers, sampling is recommended.

(SEE ATTACHED PHOTOGRAPHS)

INSPECTOR SIGNATURE:



Brandon Smith, P.E.

**Summary of Transformers
Building 49 - Regulator Substation Building
RCRA Partial Closure Program
NAS Brunswick, Maine**

ID	Site	Volume (Gallon)	Status	SerialNo	KVA	Location	Manufacturer	Type	IDNo	Class	PPM	Volt
151	NB	85	R	522	20	SOUTH REGULATOR VAULT	CROUSEHINDS	RE	49	NONPCB	<1**	2400
157	NB	60	I	78A441611	75	PAD/B-49 RUNWAY EMERG FEED	WESTINGHOUSE	TR	49	NONPCB	<50**	4160 244/80
153	NB	2	I	8-80A	15	SOUTH REGULATOR VAULT	G & W ELECTRIC	SW	49	NONPCB	<1**	100 AMP
152	NB	85	R	534	20	SOUTH REGULATOR VAULT	CROUSEHINDS	RE	49.1	NONPCB	<1**	2400
158	NB	60	I	78A441610	75	PAD/RUNWAY EMERG FEED	WESTINGHOUSE	TR	49.1	NONPCB	<50**	4160 244/80
154	NB	2	I	8-80B	15	SOUTH REGULATOR VAULT	G & W ELECTRIC	SW	49.1	NONPCB	<1**	100 AMP
159	NB	60	I	78A382893	75	PAD/RUNWAY EMERG FEED	WESTINGHOUSE	TR	49.2	NONPCB	<50**	4160 244/80
155	NB	2	I	8-80C	15	SOUTH REGULATOR VAULT	G & W ELECTRIC	SW	49.2	NONPCB	<1**	100 AMP
156	NB	1.5	I	S425510	NA	WALL/INSIDE BLDG. 49	GENERAL ELECT	SW	49.3	NONPCB	<50**	15000

Key

TR = Transformer; SW = Switch; RE = Recloser Switch/Regulator

I = Installed/In Service; R = Removed

** = NASB Tests/Research/Records

PPM = parts per million

PHOTOGRAPHS



No. 1 Building 49 – NAS Brunswick
Regulator Substation Building east elevation

February 9, 2010



No. 2 Building 49 – NAS Brunswick
Regulator Substation Building northwest interior, switches and regulator

February 9, 2010

PHOTOGRAPHS



No. 3 Building 49 – NAS Brunswick
Regulator Substation Building southwest interior, regulator and dry transformer

February 9, 2010



No. 4 Building 49 – NAS Brunswick
Regulator Substation Building northeast exterior, three pad-mounted transformers

February 9, 2010