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CNC CHARLESTON  
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DRMO OFFICE NAVAL BASE CHARLESTON BUILDING AND AREA SURVEYS RELEASE  
FROM RADIOLOGICAL CONTROLS BUILDINGS CORRESPONDENCES CNC  
CHARLESTON SC  
1/6/1997  
CNC CHARLESTON

NPP + G. RAM SURVEY RELEASE FROM RADIOLOGICAL CONTROLS INFO

PART VI  
RADIOLOGICAL REPORTS  
BINDER 5 OF 28



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
REGION 4  
ATLANTA FEDERAL CENTER  
100 ALABAMA STREET, S.W.  
ATLANTA, GEORGIA 30303-3104

4WD-FFB

January 6, 1997

**FAX**

Daryle L. Fontenot  
Department of the Navy  
Southern Division  
Naval Facilities Engineering Command  
Code 18B1  
P.O. Box 190010  
North Charleston, SC 29419-9010

**SUBJ: Release from Radiological Controls Buildings and Areas in the Vicinity of the Defense Reutilization and Marketing Office (DRMO) Facilities at Naval Base Charleston**

Dear Mr. Fontenot:

The Environmental Protection Agency (EPA) has evaluated the data from the surveys of buildings and areas in the vicinity of the Defense Reutilization and Marketing Office (DRMO) facilities at Naval Base Charleston, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in September 1996. EPA has been assured that both Naval Base Charleston and SCDHEC used the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849). As noted in our December 17, 1996, letter, EPA's evaluation indicates no radiological problem in the DRMO areas surveyed/sampled. Therefore, EPA concurs with the release of these buildings and areas from radiological controls.

To the best of our knowledge, all buildings and areas at Naval Base Charleston needing a radiological survey have been surveyed. This is a truly monumental effort which EPA considers to have been well done. We appreciate the team effort which has been demonstrated throughout all radiological surveys.

With this completion of the radiological survey at the DRMO areas and the release from radiological control of these areas, Naval Base Charleston should proceed with the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) in these areas.

2

If you have any questions, please call me at (404) 562-8549.

Sincerely,



Doyle T. Brittain  
Senior Remedial Project Manager

cc: Earl R. Dearhart, Env. Det. Chasn.  
Virgil Autry, SCDHEC  
Johnny Tapia, SCDHEC  
Paul Bergstrand, SCDHEC  
Jon Richards, EPA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4  
ATLANTA FEDERAL CENTER  
100 ALABAMA STREET, S.W.  
ATLANTA, GEORGIA 30303-3104

4WD-FFB

December 17, 1996

FAX

Daryle L. Fontenot  
Department of the Navy  
Southern Division  
Naval Facilities Engineering Command  
Code 18B1  
P.O. Box 190010  
North Charleston, SC 29419-9010

SUBJ: Review of Survey/Sampling Reports for the Defense  
Reutilization and Marketing Office (DRMO) facilities at  
Naval Base Charleston

Dear Mr. Fontenot:

The Environmental Protection Agency (EPA) has evaluated the data from the South Carolina Department of Health and Environmental Control's (SCDHEC's) radiological "over-check" surveys and sampling/analytical results for the Defense Reutilization and Marketing Office (DRMO) facilities at Naval Base Charleston. Jon Richards observed and assisted in some of the surveying and sampling conducted by the Navy and SCDHEC at Naval Base Charleston. The September 1996 surveying by the Navy used the USRAD gamma detection system, which had been used successfully at Mare Island, California. One radium source was found at the DRMO, as observed by SCDHEC. No other elevated radioactive material was found above natural background levels. EPA's evaluation of the data provided in the SCDHEC report does not indicate a radiological problem in the DRMO areas surveyed/sampled.

The SCDHEC has been conducting confirmatory surveys and sampling at the site. EPA has been assured that both Naval Base Charleston and SCDHEC are proceeding using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

- If you have any questions, please call me at (404) 562-8549.

Sincerely,

A handwritten signature in cursive script that reads "Doyle T. Brittain".

Doyle T. Brittain  
Senior Remedial Project Manager

cc: Earl R. Dearhart, Env. Det. Chasn.  
Virgil Autry, SCDHEC  
Johnny Tapia, SCDHEC  
Paul Bergstrand, SCDHEC  
Jon Richards, EPA



DEPARTMENT OF THE NAVY  
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN  
PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON  
1899 NORTH HOBSON AVENUE, BUILDING 30  
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

895  
CB

IN REPLY REFER TO:

Ser: 188

09 OCT 1996

MEMORANDUM

From: Director, Environmental Detachment Charleston (SPORTENVDETCNASN)  
To: Officer-In-Charge, Caretaker Site Office, Charleston (CSO)

Subj: GENERAL RADIOACTIVE MATERIAL SURVEY PLAN OF THE DEFENSE  
REUTILIZATION AND MARKETING OFFICE (DRMO)

Ref: (a) General Radioactive Material (G-RAM) Survey Plan: Radiological Surveys  
Conducted To Support Closure Of Defense Reutilization and Marketing  
Office Facilities, dated July 16, 1996, Revision 1

1. The buildings listed in reference (a), which require a Class D radiological survey, have been surveyed and have been free released from radiological concerns. The buildings / facilities surveyed were: 536, 1601B, 1603, 1604, 1605, 1606, 1607, 1608A, 1627, 1629, 1640, and 1649.
2. It should be noted that the open scrapyards, which are identified in reference (a) as buildings / facilities 1612, 1613, and scrapyards are still under investigation and those areas are not available for unrestricted use. A separate final report will be issued upon the completion of the scrapyards areas.
3. Point of contact for this subject is Danny Hughes at 743-2821 ext. 22.

E.R. DEARHART

Copy to:  
SOUTHNAVFACENGCOM (Code 18B)  
File



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

March 14, 1996

4WD-FFB

HAND DELIVERY

CAPT William F. Nold  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Release from Radiological Controls Buildings and Areas at  
Naval Base Charleston

Dear Captain Nold:

The Environmental Protection Agency (EPA) has evaluated the radiological data from the surveys of buildings and areas at Naval Base Charleston, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in August and November 1995, and January and February 1996. We have been assured that Naval Base Charleston and the South Carolina Department of Health and Environmental Control have used the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

Our evaluation indicates no radiological problem in the areas surveyed. Therefore, EPA concurs with the release of these buildings and areas from radiological controls. To the best of our knowledge, all buildings and areas needing a radiological survey have been surveyed, except for the Defense Reutilization and Marketing Office (DRMO) which will be surveyed after operations there have been completed. While EPA has been involved in reviewing and approving incremental progress reports, it is our understanding that a final report will be issued which will document the results of all of these surveys.

Completion of the radiological investigation and cleanup effort accomplishes several notable milestones.

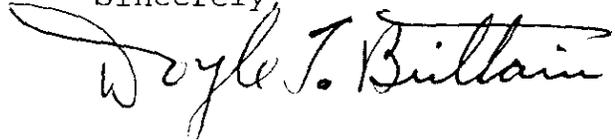
1. Under the Base Realignment and Closure Act (BRAC), Naval Base Charleston is required to conduct an environmental investigation for all types of environmental contaminants and to clean up contaminated parcels for transfer. It is important to note that the radiological investigation and cleanup is the first environmental investigation and cleanup to be completed.

2. The radiological investigation was very extensive and thorough. Yet, no radiological contamination of concern was found. This speaks very highly of the quality of work that the Navy has done in managing radioactive materials throughout the history of Naval Base Charleston.
3. Throughout this environmental investigation, Naval Base Charleston worked very closely and openly with the South Carolina Department of Health and Environmental Control (SCDHEC) and U.S. Environmental Protection Agency (EPA). Completion of this monumental effort in such a short timeframe shows the efficiency, effectiveness, and expediency which can be accomplished when governmental agencies work together as members of the same team with a common goal.
4. At no time did EPA ever feel that the Navy was "trying to hide something." Rather, the Navy always "wanted to do the right thing," and to do it well. This provides assurance to the future workers at Naval Base Charleston, and the community, and EPA that no radiological problem is being left at Naval Base Charleston.
5. Faced with the closure of Naval Base Charleston (something which is still almost unbelievable even to outsiders) and the loss of their jobs, it is important to note that the radiological workers took pride in their work to the very end never "slacking off" in the quality or quantity of their work. Their performance remained exemplary which says a lot about the professionalism of the people and the program.

Indeed, it has been a privilege to work with the personnel in the radiological program at Naval Base Charleston.

If you have any questions, please call me at (404) 347-3555, VMX 2061, or Jon Richards at (404) 347-3555, VMX 6904.

Sincerely,



Doyle T. Brittain  
Senior Remedial Project Manager

cc: Virgil Autry, SCDHEC  
Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
Bobby Dearhart, CNSY  
Daryle Fontenot, SODIVNAVFACECOM  
Jon Richards, EPA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

March 14, 1996

4WD-FFB

HAND DELIVERY

Earl Dearhart  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Review of March 8, 1996, Survey/Sampling Report for  
Buildings (List Enclosed) at the Charleston Naval Shipyard

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the radiological data from the surveys of the above areas, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in August and November, 1995, and January and February 1996. Our evaluation indicates no radiological problem in the subject areas. Therefore, EPA concurs with the clearance of these properties for transfer. We have been assured that Naval Base Charleston and the South Carolina Department of Health and Environmental Control are using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (404) 347-3555, VMX 2061, or Jon Richards at (404) 347-3555, VMX 6904.

Sincerely,

A handwritten signature in cursive script that reads "Doyle T. Brittain".

Doyle T. Brittain  
Senior Remedial Project Manager

cc: Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
Bobby Dearhart, CNSY  
Daryle Fontenot, COMNAVBASE  
Jon Richards, EPA

Enclosure

LIST OF BUILDINGS, PIERS, AND AREAS FOR WHICH  
RADIOLOGICAL OVER-CHECK SURVEYS HAVE BEEN PERFORMED

BUILDING

13  
13A  
13 Second Floor  
177 Electronics Shop and Storage Cage  
44 Plating Facility  
58 Internal Monitoring Trailers  
69  
380-207  
58  
190  
177 Contaminated Work Room  
246 Mixed Waste Storage Bay  
62  
1174  
1171  
190  
J-22  
1175  
32  
26-13  
35  
X-10  
1501  
224  
1267 Old Location  
198  
NS-46  
NSC-67  
1197  
79A North Bay East/West  
79  
79A High/Low Bays  
79A Transitions Areas  
222 Basement  
222 First Floor  
222 Second Floor  
222 Third Floor

PIER

C  
J  
N  
M

AREA

222 Miscellaneous

79/79A Trenches

79A Fenced

Rad Transfer Routes

NFE/IAF

Keel Blocks

YNF-1205 Barge

Environmental Radiological Survey Areas



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

4WD-FFB

March 14, 1996

HAND DELIVERY

Earl Dearhart  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Review of March 5, 1996, Survey/Sampling Report for Buildings 9, 35, 59/59A, 101, 1024, 1173, 1760, and Controlled Storage Enclosures #1 and #2, Change House/Frisk Enclosure, S6G Refueling Facility Foundations, Rail Line RAM Storage Areas, and the Cofferdam Laydown Area at the Charleston Naval Shipyard

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the radiological data from the surveys of the above areas, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in August and November, 1995, and January and February 1996. Our evaluation indicates no radiological problem in the subject areas. Therefore, EPA concurs with the clearance of these properties for transfer. We have been assured that Naval Base Charleston and the South Carolina Department of Health and Environmental Control are using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

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Doyle T. Brittain  
Senior Remedial Project Manager

cc: Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
Bobby Dearhart, CNSY  
Daryle Fontenot, COMNAVBASE  
Jon Richards, EPA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

March 14, 1996

4WD-FFB

HAND DELIVERY

Earl Dearhart  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Review of March 8, 1996, Survey/Sampling Report for  
Group I NNPP Facilities and Class D G-RAM Facilities at  
the Charleston Naval Shipyard (List Enclosed)

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the radiological data from the surveys of the above areas, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in August and November, 1995, and January and February 1996. Our evaluation indicates no radiological problem in the subject areas. Therefore, EPA concurs with the clearance of these properties for transfer. We have been assured that Naval Base Charleston and the South Carolina Department of Health and Environmental Control are using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (404) 347-3555, VMX 2061, or Jon Richards at (404) 347-3555, VMX 6904.

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Doyle T. Brittain  
Senior Remedial Project Manager

cc: Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
Bobby Dearhart, CNSY  
Daryle Fontenot, COMNAVBASE  
Jon Richards, EPA

Enclosure

**NNPP - Group I  
Buildings/Facilities**

Facility	Description	CNS Survey Complete	Facility	Description	CNS Survey Complete
* 2	Shipfitter Shop	Yes	221	Pipe Shop Clean.	Yes
* 2A	Sail Loft	Yes	223	Paint Shop	Yes
4	Admin. Bldg.	Yes	226	Plating Plant	Yes
5	Woodworking Shop	Yes	* 228	Insulation Facility	Yes
* 6	Forge Shop	Yes	230	Canteen # 2	Yes
7	Admin. Bldg.	Yes	* 231	Canteen # 3	Yes
8	Admin. Bldg.	Yes	236	Pipefitter Shop	Yes
* 10	Nuc. Engr. Bldg.	Yes	237	Engr. Storage	Yes
* 21	Storage	Yes	* 238	Repair Equip. Bldg.	Yes
25	Transp. Nuc. Tng.	Yes	* 240	Car Wash Facility	Yes
* 26	Field Office	Yes	* 242	Auto Maint. Shop	Yes
30	Public Works	Yes	* 247	Support Building	Yes
31	Storage	Yes	* 248	Supply Building	Yes
43	Central Tool Shop	Yes	250	Support Building	Yes
46	Comp.&Pump House	Yes	252	RadCon Tng. Facility	Yes
56	Elect. & Mech. Shops	Yes	* 254	Comp. Insp. Facility	Yes
* 57	Rigger Shop	Yes	* 256	Staging/Storage Fac.	Yes
59	Sheet Metal & Boiler	Yes	302B	Pumpwell	Yes
63	Yard Cafeteria -1	Yes	342	Stor. SubStation	Yes
74	Storehouse	Yes	381	Stor. Admin.	Yes
77	Ship Supt. Office	Yes	391	Storage	Yes
97	Air Comp. Stor. House	Yes	451	Storage SubStation	Yes
99	Pumphouse	Yes	451D	Storage Switching Sta.	Yes
* 122	Transportation Bldg.	Yes	456	Storage SubStation	Yes
137	Charging Station	Yes	457	Production Offices	Yes
147	Storage	Yes	904	Storage Building	Yes
* 168	Storage	Yes	* 1035	Paint Shop	Yes
* 187	Module Maint.	Yes	1119	Product. Support Off.	Yes
* 188	Support Equip. Mod Mnt.	Yes	1141	Security Office	Yes
* 189	Elect. and Mech. Equip	Yes	* 1175	Shop Stores	Yes
194	Paint Shop Storage	Yes	* 1178	Storage	Yes
* 197	DD 5 Pumpwell	Yes	1229C	Lunch Shelter	Yes
195	Rigger Shop & Offices	Yes	1245	Woodwork Shop	Yes
* 199	Training Bldg.	Yes	1248	Storage	Yes
212	Abrasive Blast Fac.	Yes	1269	Storage	Yes
* 216	Elect. Shop Whse.	Yes	1277	Storehouse	Yes
1278	Battery Processing Slab	Yes	1295	Steam Stor. Tk.	Yes
1298	Storage	Yes	1297	Storage Bins	Yes
1299	Shop Stores	Yes	1314	Material Storage	Yes
1374	Bldg. 177 Cool. Tower	Yes	1316	Tool Storage	Yes
1378	Stor. Slab Pure Wtr. Tk.	Yes	1394	Pure Water Facility	Yes
1435	Portable Field Office	Yes	1433	Port. Field Office	Yes
1436	Portable Field Office	Yes	1453	Clean. and Preserv. Plant	Yes
1454	Equipment Storage	Yes	1712	Storage	Yes
1738	Restroom	Yes	1717	Waterfront Support Off.	Yes

\* SURVEYS PERFORMED IN THESE BUILDINGS  
NO RESULTS SUBSTANTIALLY ABOVE BACKGROUND

**NNPP - Group I  
Buildings/Facilities**

Facility	Description	CNS Survey Complete	Facility	Description	CNS Survey Complete
1737	Restroom	Yes	1783	Sewage Pump Station	Yes
* 1824	Supply Stor. Haz. Waste	Yes	1827	Time Clock Station	Yes
* 1836	Storage	Yes	1828	Time Clock Station	Yes
1838	General Storage	Yes	1855	Canteen # 4	Yes
SGI	Traning	Yes	* 3900J	Storage	Yes
YRBM-9	Ships Force Barge	Yes	YRBM-13	Ships Force Barge	Yes
1802	Piermaster Bldg	Yes	1801	Piermaster Bldg	Yes
YRBM-34	Ships Force Barge	Yes	YRBM-35	Ships Force Storage	Yes
YRBM-46	Ships Force Storage	Yes	YRBM-40	Ships Force Storage	Yes
YFN-795	Repair Barge	Yes	Dive Boats	Dive Boats	Yes
YRR-6	Yard Repair Barge	Yes	YRR-8	Yard Repair Barge	Yes
Various	Portable Buildings	Yes	* Various	Sheds	Yes
55	Cleaning Facility	Yes	1013B	Building	Yes
1169	Building	Yes	1156	Building	Yes
YFNB-39	Stm. Gen. Clean. Barge	Yes	YWN-71	Stm. Gen. Sup. Barge	Yes
YFNX-20	Stm. Gen. Insp. Barge	Yes	68	Bldg. Battery Shop	Yes
1434	Portable Field Office	Yes	808	Storage Building	Yes
223	Paint Shop	Yes	SGI	Training Facility	Yes
Port. Bldg.	In process	Yes			

\* SURVEYS PERFORMED IN THESE BUILDINGS  
NO RESULTS SUBSTANTIALLY ABOVE BACKGROUND

**G-RAM Class D  
Buildings**

Facility	Description	CNS Survey Complete	Facility	Description	CNS Survey Complete
81	FIRE STATION	Yes	1601B	GENERAL WAREHOUSE-BULK	Yes
132	PIER UTILITIES STORAGE	Yes	1602C	GENERAL WAREHOUSE-BULK	Yes
133	POLARIS SPARE PARTS HOUSE	Yes	M-1137	ADMINISTRATIVE OFFICE	Yes
64	L&E WAREHOUSE	Yes	NH-21	ENGINEERING LABORATORY	Yes
141	POLICE AND FIRE STORAGE	Yes	NH-46	COMMANDER NB HEADQUARTERS	Yes
198	FISC SHIPPING AND STORAGE	Yes	NH-47	COMMANDER NB HEADQUARTERS	Yes
* 200	PORT SERVICES	Yes	NH-48	COMMANDER NB HEADQUARTERS	Yes
* 202	INSTRUCTION BLDG	Yes	NH-49	COMMANDER NB HEADQUARTERS	Yes
* 224	SERVMART	Yes	NH-52	COMMANDER NB HEADQUARTERS	Yes
245	FIRE DEPT. SUPPORT & STORAGE	Yes	NH-53	ADMINISTRATIVE OFFICE	Yes
186	POLICE & FIRESTATION #1	Yes	NH-54	NAVAL SECURITY ADMINISTRATIVE OFFICE	Yes
* 191	ENVIRONMENTAL STORAGE	Yes	1193	ADMINISTRATIVE OFFICE	Yes
321	PIER A STORAGE AREA	Yes	1501	GENERAL WAREHOUSE-NISE	Yes
643	MINE DEPT. BLDG	Yes	1502	GENERAL WAREHOUSE-BULK	Yes
* 647	ACADEMIC INSTRUCTION BLDG.	Yes	1503	GENERAL WAREHOUSE-BULK	Yes
648	SPECIAL SERVICES CENTER	Yes	1504	GENERAL WAREHOUSE-BULK	Yes
661	COMMUNICATION CENTER	Yes	1507	GENERAL WAREHOUSE-BULK	Yes
673	NCTSI DET SIX	Yes	1603	GENERAL WAREHOUSE	Yes

\* SURVEYS PERFORMED IN THESE BUILDINGS  
NO RESULTS SUBSTANTIALLY ABOVE BACKGROUND

G-RAM Class D  
Buildings

Facility	Description	CNS Survey Complete	Facility	Description	CNS Survey Complete
1127	PRESERVATION SHOP & BULK	Yes	1604	HAZARDOUS & FLAMMABLE STORAGE	Yes
1138	PARTS STORAGE FACILITY	Yes	1614	OPEN STORAGE-BULK	Yes
1143	MWR GEAR HOUSE	Yes	1627	DISPOSAL SALES FACILITY	Yes
1177	FIRE STATION #3	Yes	* 1632	PIER A TRANSIT SHED	Yes
x-54	IDF TRAINING BLDG.	Yes	1607	WAREHOUSE-SPECIAL USE	Yes
NH-55	LEGAL SERVICES OFFICES	Yes	1639	CONTROLLED HUMIDITY WAREHOUSE	Yes
NH-68	GENERAL WAREHOUSE	Yes	1640	CONFORMING STORAGE	Yes
NSC-45	WAREHOUSE	Yes	1649	GENERAL STORAGE SHED	Yes
NS-161	STORAGE OF SHIP'S MOTORS & MACHINERY	Yes	RS-2509	RADAR STATION STORAGE	Yes
NS-19	CLASSROOMS & STORAGE	Yes	RS-2524	RS SUPPLY & COMPONENT TEST	Yes
*NS-26	SHOP & OFFICE SPACES	Yes	RS-2556	MINE REFURBISHMENT & STORAGE	Yes
*NS-46	NAVAL STATION STAFF OFFICES	Yes	* X-10	WAREHOUSE	Yes
NS-53	GROUND MAINTENANCE	Yes	1505	GENERAL WAREHOUSE-BULK	Yes
*NSC-66	WAREHOUSE	Yes	* 4000	SESEF	Yes
1172	WAREHOUSE	Yes	1605	FLAMMABLE STOREHOUSE-BULK	Yes
NSC-67	WAREHOUSE	Yes	NH-51	ADMIN. BLDG	Yes
135	WAREHOUSE	Yes	173	COAL SAMP. FAC.	Yes
NS-16	ADMIN. OFFICES	Yes	NS-20	ADMIN. & TRAINING	Yes

\* SURVEYS PERFORMED IN THESE BUILDINGS  
NO RESULTS SUBSTANTIALLY ABOVE BACKGROUND



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

March 7, 1996

4WD-FFB

FAX

Earl Dearhart  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Historical Radiological Assessment for the Charleston  
Naval Base (1/96), Volumes I & II

The U.S. Environmental Protection Agency, Region IV (EPA), has evaluated the Historical Radiological Assessment (HRA) for Naval Nuclear Propulsion Program (Volume I) and General Radioactive Material (Volume II) for the Charleston Naval Base. The HRA for the Naval Base was consistent with the HRA for the Shipyard. EPA has no major concerns with either volume. However, enclosed are a few questions/comments which we feel would make the reports more complete.

If you have any questions, please call me at (404) 347-3555, VMX 2061, or Jon Richards at (404) 347-3555, VMX 6904.

Sincerely,

A handwritten signature in cursive script that reads "Doyle W. Brittain".

Doyle W. Brittain  
Senior Remedial Project Manager

Enclosure

cc: Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
LT John Crapo, CNSY  
Daryle Fontenot, COMNAVBASE  
Jon Richards, EPA

EPA QUESTIONS/COMMENTS ON THE  
HISTORICAL RADIOLOGICAL ASSESSMENT FOR  
NAVAL BASE CHARLESTON

VOLUME I:

1. Page 1-2, Section 1.4, last sentence: It is stated that ongoing surveys will verify that NNPP material is at levels satisfactory for unrestricted use. The report should address response actions in the event the surveys identify any material above the release limit.
2. Page 2-3, Section 2.3.2: This section refers to "all available records related to release, monitoring, and waste disposal were reviewed...". We understand there were quarterly routine or random monitoring or survey records involving gamma and some soil sampling for the naval base areas. These records should be reviewed, if you haven't already, to ascertain (1) whether any areas of elevated radioactivity were discovered, and if so, how they were handled; and, (2) if any additional monitoring is necessary to provide assurance that the lands which will be turned over for public use are free of elevated levels of radioactivity. We anticipate that these records will provide evidence that the base is "clean", however the records should be reviewed and discussed in the HRA.
3. Page 4-1, Section 4.1.1: Will NAVFAC be the lead in final surveys and sampling of the DRMO facility and any others on the base not completed before April 1, 1996?
4. Page 5-18, Paragraph 1, and Table 5-6: The first paragraph says there are no areas where RAM is above background, but Table 5-6 indicates that several piers and buildings remain to be assessed.
5. Page 5-18, Table 5-6: Has this table of facilities changed since this report was written? Will there be any cursory G-RAM surveys in buildings where no historical records indicate previous G-RAM activities?
6. Page 6-6, Table 6-1: The last results are for fourth quarter 1994. It is anticipated that the results for all of 1995 are also available.
7. Page 6-14, Section 6.3, Paragraph 1: It is unclear that film badges were posted outside controlled areas at the Naval Base as they were at CNSY.
8. Page 6-15, 1st word: From Figure 6-1, it appears TLDs were posted near the heads of piers in addition to some points at the perimeter.

VOLUME II:

1. Page 4-3, Section 4.2: The HRA states in the first paragraph of this page that additional potential sources of historical radiological significance at the Naval Base include "luminescent paint activated with radium," and other gauges, dials, markers that contain radioactive material. It also states that control over the use of these materials was limited, especially in the early years. Later in Section 4.4.3, it states that historical documentation regarding early uses of G-RAM is sparse. Given this history, what justification can the Navy provide that shows that at least a cursory survey is not needed at each building?
2. Page 5-8, Table 5-3: We assume, as of early 1996, that the facilities in this table have now been surveyed. The text refers to "will be surveyed". Please confirm this. Also, please list the 62 facilities mentioned which will receive a "cursory survey". What percentage of the Naval Base facilities or buildings do these cursory surveys cover? As questioned earlier, what justification can be given to assure that barracks or other areas not part of the cursory surveys have no G-RAM?
3. Page 9-1, Section 9.0: This section states that an intensive search of buildings and facilities is in process to validate the conclusion prior to release of the base for unrestricted use that there is no residual G-RAM in the environment which would be considered for remediation. Please clarify in the last paragraph which, and what percentages of, buildings facilities will be surveyed.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

4WD-FFB

February 24, 1996

HAND DELIVERY

Earl Dearhart  
Commander, Charleston Naval Shipyard  
Charleston, SC 29408-6100

SUBJ: Review of February 23, 1996, Survey/Sampling Report for  
Buildings 10, 187, 1296, 1632, 1639, and NSC-66 at the  
Charleston Naval Shipyard

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the radiological data from the surveys of the above areas, including the oversight data provided by the South Carolina Department of Health and Environmental Control (SCDHEC). Our evaluation includes EPA on-site oversight conducted in August and November, 1995, and January and February 1996. Our evaluation indicates no radiological problem in the subject areas. Therefore, EPA concurs with the clearance of these properties for transfer. We have been assured that Naval Base Charleston and the South Carolina Department of Health and Environmental Control are using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (404) 347-3555, VMX 2061, or Jon Richards at (404) 347-3555, VMX 6904.

Sincerely,

A handwritten signature in cursive script that reads "Doyle T. Brittain".

Doyle T. Brittain  
Senior Remedial Project Manager

cc: Henry Porter, SCDHEC  
Ann Ragan, SCDHEC  
Tommy Gerken, CNSY  
Bobby Dearhart, CNSY  
Daryle Fontenot, COMNAVBASE  
Jon Richards, EPA



## NAVAL REACTORS

February 16, 1996

Dear Governor Beasley:

The Navy is on schedule to complete closure of Charleston Naval Shipyard and Naval Base Charleston on April 1, 1996. Part of the closure process includes surveys for radioactivity, to support release of facilities for unrestricted use. As Director of the Naval Nuclear Propulsion Program, I wanted to assure you of the Navy's commitment to confirm the absence of radioactivity and to cooperate with you after closure should there be any issue about radiological release.

We have been working with State officials and the USEPA to get agreement that each facility, pier, and drydock is acceptable for unrestricted release. With the agreement of your agencies and EPA Region IV, we have completed surveys of many areas and released them for civilian use; this action is supporting early turnover of facilities to the local community in advance of base closure.

No significant radiological issues have been identified during the closure process. This is the result of the radiological controls used by the Navy throughout 30 years of nuclear propulsion work.

The Naval Facilities Engineering Command (NAVFAC) will remain at Charleston after base

closure to complete necessary environmental restoration work. They will be the contact point for any questions your agencies may have following base closure. The Naval Sea Systems Command will remain involved with any issues related to Navy radioactivity.

I appreciate the cooperation provided during the base closure process by the staff of the DHEC Bureau of Solid and Hazardous Waste Management.

Please feel free to call me if you have questions regarding radiological matters at Charleston. I can be reached at (703)-603-7321.

Sincerely,



B. DeMars  
Admiral, U.S. Navy

The Honorable David M. Beasley  
Governor of South Carolina  
Post Office Box 11369  
Columbia, South Carolina 29211

Copy to:  
Commander, Naval Facilities Engineering Command  
Regional Administrator, USEPA Region IV  
Commander, Charleston Naval Shipyard  
Commander, Naval Base Charleston



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

4WD-FFB

October 26, 1995

HAND DELIVERY

Bobby Dearhart  
Commander Naval Base  
Base Closure Office, Code N4 (BEC)  
1690 Turnbull Avenue  
Charleston, SC 29408-1955

SUBJ: Background Radiation Data for Naval Base Charleston

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the background radiation data from the May 4, 1995, Naval Base Charleston report, and the September 19, 1995, South Carolina Department of Health and Environmental Control (SCDHEC) letter. The EPA agrees with the recommended closure "action levels" of 7.3 pCi/g for Ra-226, and 8.2 pCi/g for Th-232, which are 5 pCi/g above their respective backgrounds for the Charleston area. The split samples between SCDHEC and Naval Base Charleston confirm these results and recommendations.

In an October 21, 1995, verbal communication between Tommy Gerken, Director of Radiological Control for Naval Base Charleston, and Jon Richards, Nuclear Engineer for the EPA Office of Radiation, it was agreed that the radiation background for wood will be assumed to be zero, with 5 pCi/g being the "action level" for Ra or Th.

The SCDHEC is conducting confirmatory surveys and sampling at the site. EPA has been assured that both Naval Base Charleston and SCDHEC are proceeding using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (803) 743-9985, or (404) 347-3555, VMX 2061.

Sincerely,

A handwritten signature in cursive script that reads "Doyle T. Brittain".

Doyle T. Brittain  
Senior Remedial Project Manager

cc: Virgil Autry, SCDHEC  
Jeannie Olano, SCDHEC  
Joe Bowers, SCDHEC  
Jon Richards, EPA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

4WD-FFB

October 26, 1995

HAND DELIVERY

Bobby Dearhart  
Commander Naval Base  
Base Closure Office, Code N4 (BEC)  
1690 Turnbull Avenue  
Charleston, SC 29408-1955

SUBJ: Review of Survey Sampling Reports for Pier G at Naval Base  
Charleston

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the data from the South Carolina Department of Health and Environmental Control's (SCDHEC's) radiological "over-check" surveys and sampling/analytical results for Pier G at Naval Base Charleston. August 14-15, 1995, Jon Richards with EPA's Office of Radiation observed some of the surveying and sampling conducted by SCDHEC and Naval Base Charleston personnel. EPA's evaluation of the data provided in the SCDHEC report does not indicate a radiological problem in the Pier G areas surveyed/sampled.

The SCDHEC is conducting confirmatory surveys and sampling at the site. EPA has been assured that both Naval Base Charleston and SCDHEC are proceeding using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (803) 743-9985, or (404) 347-3555, VMX 2061.

Sincerely,

A handwritten signature in black ink that reads "Doyle T. Brittain".

Doyle T. Brittain  
Senior Remedial Project Manager

cc: Virgil Autry, SCDHEC  
Jeannie Olano, SCDHEC  
Joe Bowers, SCDHEC  
Jon Richards, EPA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

4WD-FFB

October 26, 1995

HAND DELIVERY

Bobby Dearhart  
Commander Naval Base  
Base Closure Office, Code N4 (BEC)  
1690 Turnbull Avenue  
Charleston, SC 29408-1955

SUBJ: Review of Survey Sampling Reports for Group 1 Buildings:  
21, 26, 122, 168, 187, 188, 189, 197, 199, 216, 231, 238,  
240, 242, 248, 254, 256, 1035, 1125, 1178, 1824, 1836, and  
3900-J, and Class D Buildings 646, 646-A, 647, and FBM-61

Dear Mr. Dearhart:

The Environmental Protection Agency (EPA) has evaluated the data from the South Carolina Department of Health and Environmental Control's (SCDHEC's) radiological "over-check" surveys and sampling/analytical results for the subject buildings at Naval Base Charleston. August 14-15, 1995, Jon Richards with EPA's Office of Radiation observed some of the surveying and sampling conducted by SCDHEC and Naval Base Charleston personnel. EPA's evaluation of the data provided in the SCDHEC report does not indicate a radiological problem in the subject areas surveyed/sampled.

The SCDHEC is conducting confirmatory surveys and sampling at the sites. EPA has been assured that both Naval Base Charleston and SCDHEC are proceeding using the Nuclear Regulatory Commission's Draft "Manual for Conducting Radiological Surveys in Support of License Termination" (NUREG/CR-5849).

If you have any questions, please call me at (803) 743-9985, or (404) 347-3555, VMX 2061.

Sincerely,

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Doyle T. Brittain  
Senior Remedial Project Manager

cc: Virgil Autry, SCDHEC  
Jeannie Olano, SCDHEC  
Joe Bowers, SCDHEC  
Jon Richards, EPA