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NAVAL NUCLEAR PROPULSION PROGRAM (NNPP) RADIOLOGICAL FINAL REPORT FOR DECOMMISSIONING VOLUME II SECTION F SUBSECTION 4 THRU SUBSECTION 8 CNC CHARLESTON SC

4/1/1996

RADIOLOGICAL ENGINEERING DIVISION

NAVAL NUCLEAR PROPULSION PROGRAM (NNPP) RADIOLOGICAL FINAL REPORT FOR THE DECOMMISSIONING OF CHARLESTON NAVAL SHIPYARD

(VOLUME II)

SECTION F

SUBSECTION 4
THRU
SUBSECTION 8

Prepared by
Radiological Engineering Division
Charleston Naval Shipyard
Charleston, South Carolina

April 1, 1996

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RADIOLOGICAL FINAL REPORT

FOR THE DECOMMISSIONING OF

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(VOLUME II)

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SUBSECTION 4
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4. Dry Dock 4

a. Introduction:

Dry Dock 4 is located in grid D-10 of the Charleston Naval Shipyard map (Figure 9 of Vol. II A.) and was constructed in 1943. Dry Dock 4 is identified as structure 304.

(1) Description:

Structure 304 is rectangular, 351 feet long by 90 feet wide by 30 feet deep and is oriented east into the Cooper River. Dry Dock 4 is constructed of reinforced poured concrete with its caisson consisting of two wooden gates reinforced with metal beams.

(2) Brief History:

(a) **Use:** This structure was constructed as part of the U.S. Naval shore establishment expansion programs implemented prior to and during World War II. In 1942 the, the shipyard became responsible for the annual production of vessels intended to support the Destroyer Escort Program.

Afterwards this structure was used in the 1960s and early 1970s for the maintenance of the shipyard's radioactive repair barges. These barges continued to be used as radioactive repair facilities throughout these maintenance periods. During the mid 1960s this dry dock was used to transfer resin to shipping containers in support of reactor plant decontamination operations. After these barges were taken out of service they were placed in long term storage in this Dry Dock as well as Dry Dock 3.

(b) **Radiological History:** Areas in this dry dock have been controlled as radiation areas and radioactive material storage areas. Temporary radioactive material storage areas were established for long term storage of various radioactive repair barges. Radioactive material was regularly transported in and out of this dry dock and was stored in temporary areas along the sides.

In 1966 and 1967 several major spills of resin occurred in this dry dock contaminating areas of the dry dock floor. Contamination levels detected on the dry dock floor were hundreds of thousands of $\mu\mu Ci/100cm^2$. These areas were decontaminated and released from radiological controls. Contamination levels were otherwise maintained at levels less than 450 $\mu\mu Ci/100cm^2$.

(3) Survey Requirements:

4. Dry Dock 4

Dry Dock surveys.

b. Discussion:

Areas of the dry dock floor, walls, and caisson with a low potential for contamination were divided into approximately 20' by 20' grid sections. Each 20' by 20' grid contained two 3' by 3' subsections which were placed in the areas of highest potential for contamination. Each 3' by 3' subsection was surveyed using the IM-247/PD and the IM-253/PD (HV-PHA). Then a minimum of 50% of the 3' by 3' grid sections were surveyed using the IM-253/PD(HV-2 GROSS). Solid material samples were taken from each 3' by 3' grid which resulted in greater than 450 $\mu\mu Ci/20cm^2$ with an IM-247/PD or greater than twice background with the IM-253/PD.

Areas of this dry dock which were known storage areas for portable effluent tanks or other radioactive material, known spill areas, or areas below contaminated discharges when barges have been docked were divided into approximately 5' by 5' grid sections. Each 5' by 5' grid was surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). Then a minimum of 25% of the 5' by 5' grids were surveyed using the IM-253/PD(HV-2 GROSS). Additionally, solid material samples were taken from each 5' by 5' grid.

Areas adjacent to the dry dock were categorized as ships berthing areas. These areas were divided into approximately 10' by 10' grid sections. Each grid contains two 3' by 3' subsections which were located in the area of highest potential for contamination. One 3' by 3' subsection was surveyed using the IM-247/PD and the other using the IM-253/PD (HV-1 PHA). Additionally, solid material samples were taken from a minimum of 50% of the 10' by 10' grids and each 3' by 3' subsection that resulted in greater than 450 $\mu\mu Ci/20cm^2$ using the IM-247/PD or greater than twice the background using the IM-253/PD.

The adjacent area on the south side of this dry dock was used extensively as a radioactive material storage area and its survey and release is addressed in Volume II.

The dry dock floors, walls, caissons, and adjacent areas consisted of asphalt/gravel, wood, metal, and multiple pours of concrete. Thus due to variations in the natural radioactivity among these materials, a number of different background levels exist in these locations. The IM-247/PD and IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for varying concrete pours were 40, 200, 4000; 40, 400, 10000; and 40, 100, 2000 counts per minute. These radiation levels were based upon backgrounds obtained from the Pier X parking area, Building 220 west parking area, and Pier U respectively. The IM-247/PD and IM-253/PD (HV-1 PHA and HV-2 GROSS) background used for the asphalt pours were 40, 250, 6500 counts per minute. These radiation levels were based upon background levels obtained from the

4. Dry Dock 4

asphalt/gravel of Pier U. The IM-247/PD and IM-253/PD (HV-1 PHA and HV-2 GROSS) background used for the wooden areas were 40, 250, 6500 counts per minute. These radiation levels were based upon background levels obtained from the wooden structures of Building 1146. The IM-247/PD and IM-253/PD (HV-1 PHA and HV-2 GROSS) background used for the metal structures were 40, 200, 4000 counts per minute. These radiation levels were based upon background levels obtained from the metal structures of Building 1874.

Dry Dock 4 was divided into 1426 various grids. Each grid and subsection was identified with a unique designation.

Solid material samples were taken for analysis from 1172 locations. Each solid sample was removed from the grid location indicating the area of highest potential. The following naturally occurring radionuclides were typical isotopes identified during analysis of solid material samples: lead 212 and lead 214.

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than 450 $\mu\mu Ci/20cm^2$.

Surveys performed with the IM-253/PD (HV-1 PHA) detected 24 areas greater than or equal to twice background.

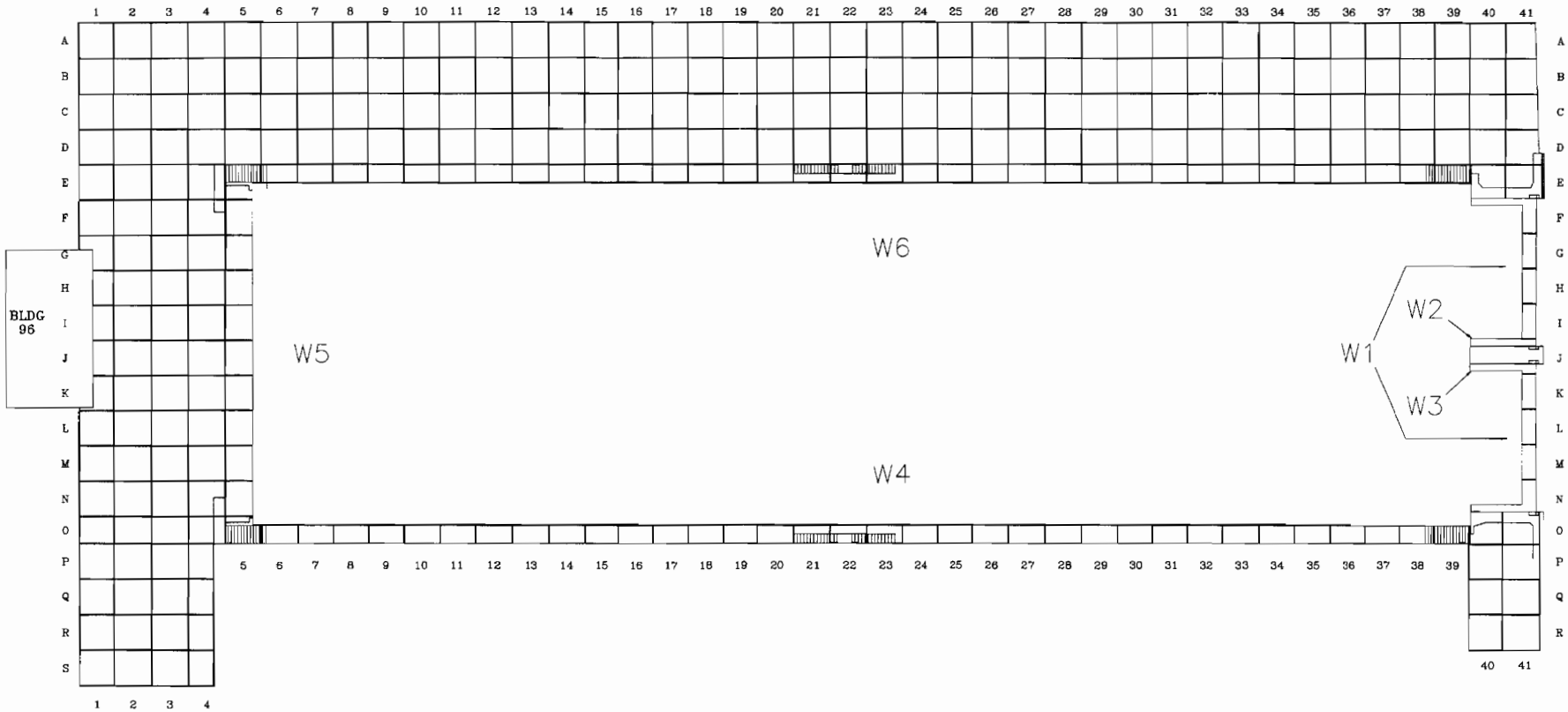
Surveys performed with the IM-253/PD (HV-2 GROSS) detected 25 areas greater than or equal to twice background.

Analysis performed on solid material samples with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from a low of 0.18 pCi/g to a high of 90.00 pCi/g.

Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated one solid material sample exceeding 1 pCi/g at grid location DD4 FE-42. The extent of contamination was identified by taking additional solid material samples in the surrounding vicinity. Remediation consisted of the excavation of a 36" by 36" area to a depth of 1/2" using scabbling equipment. Following remediation, additional solid material samples taken from the remediated areas were less than 1 pCi/g specific Co-60; no traces of cobalt 60 were identified.

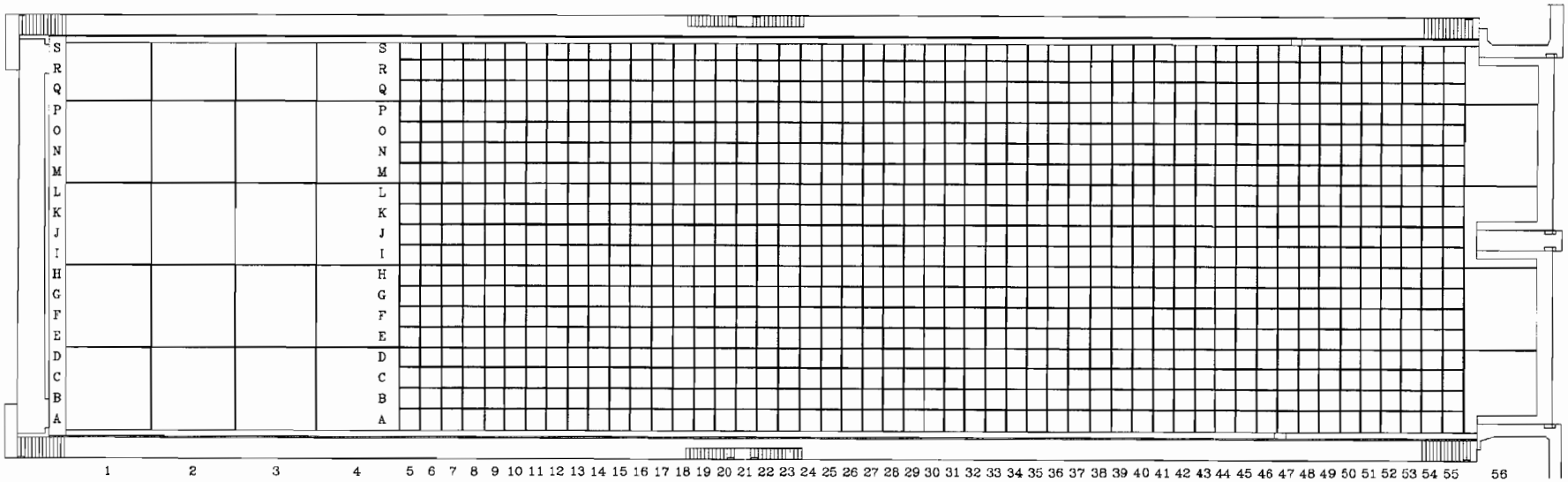
4. Dry Dock 4

d. Overall Grid Map (ADJACENT)



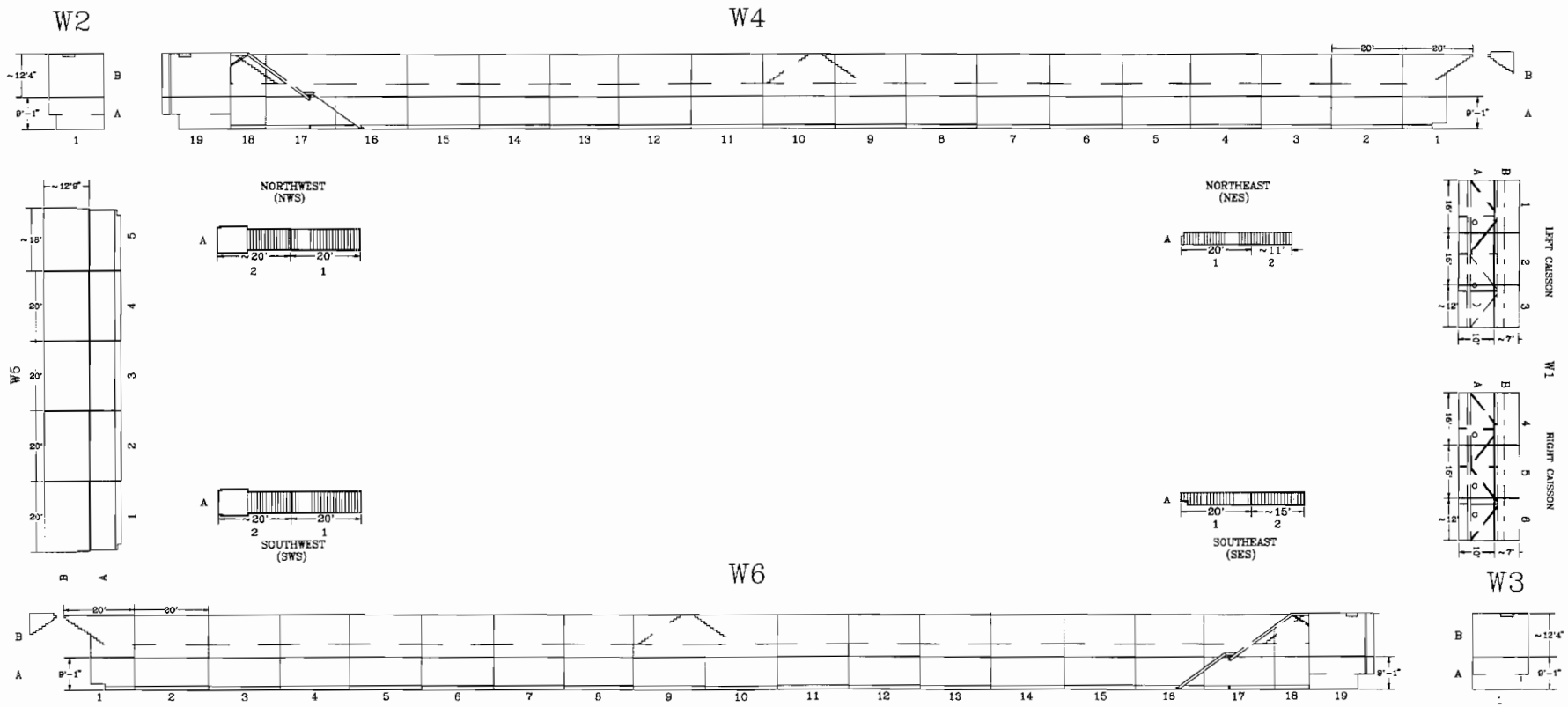
4. Dry Dock 4

d. Overall Grid Map (FLOOR)



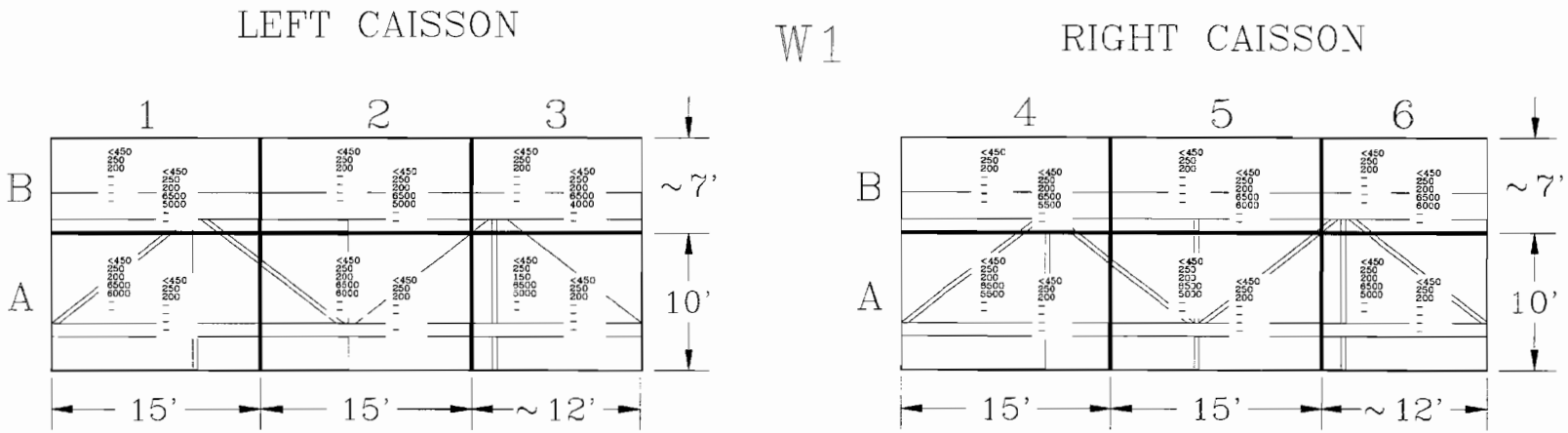
4. Dry Dock 4

d. Overall Grid Map (WALLS/STAIRS)



4. Dry Dock 4

e. Localized Grid Maps (WALL 1)

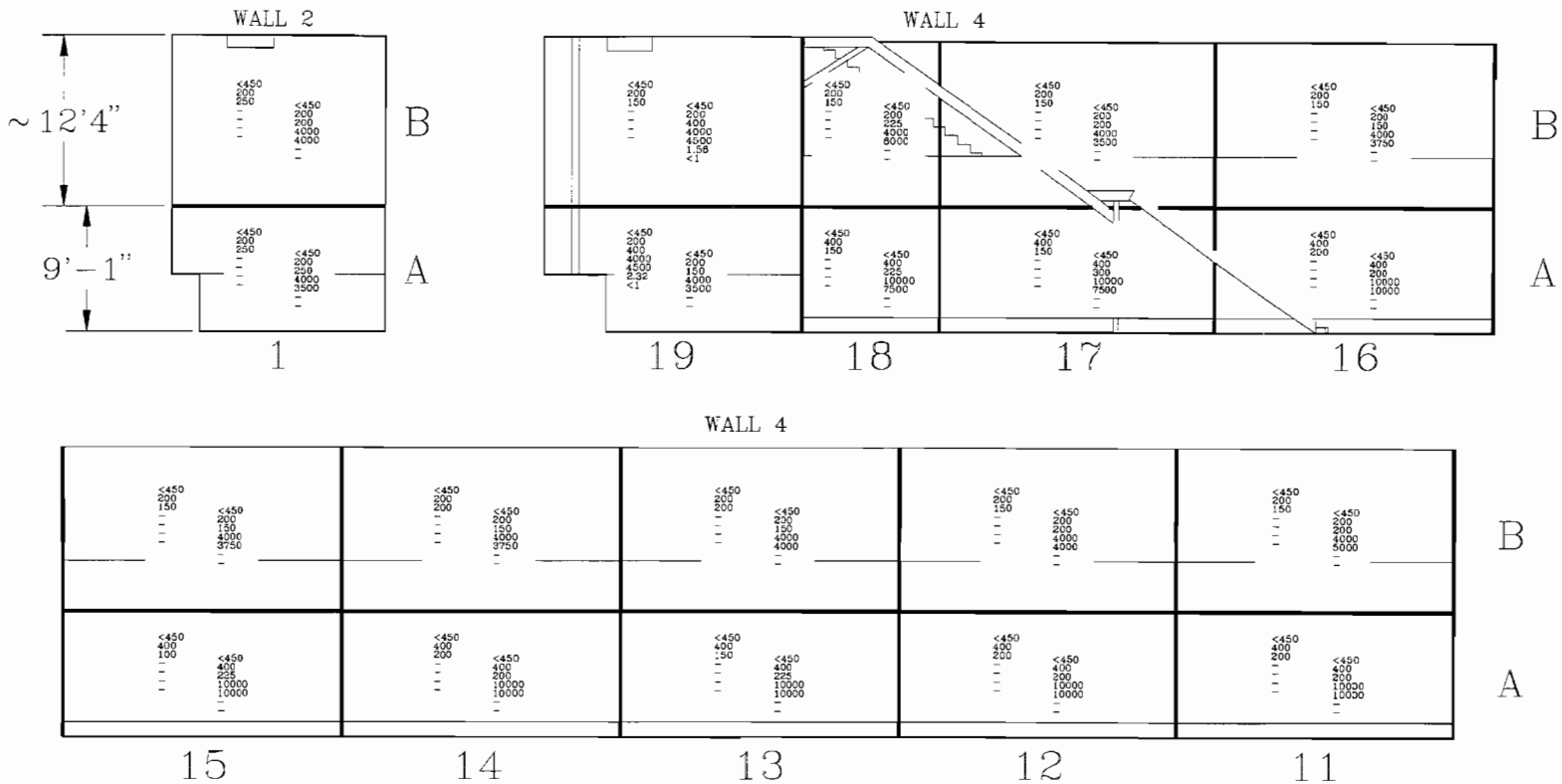


Sample Data

< 450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. **Dry Dock 4**

e. **Localized Grid Maps (WALL 2 & 4)**



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
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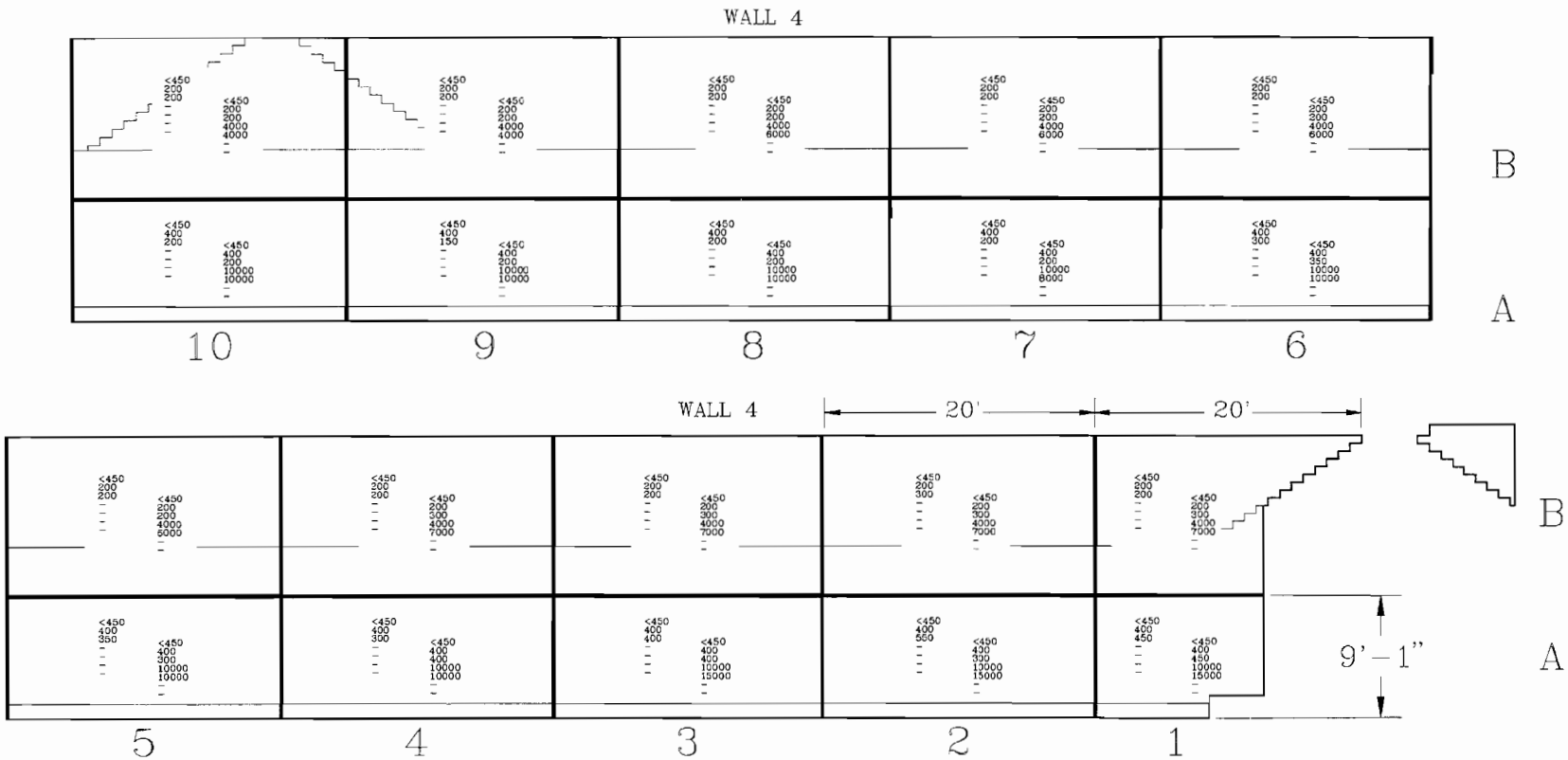
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (WALL 4)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
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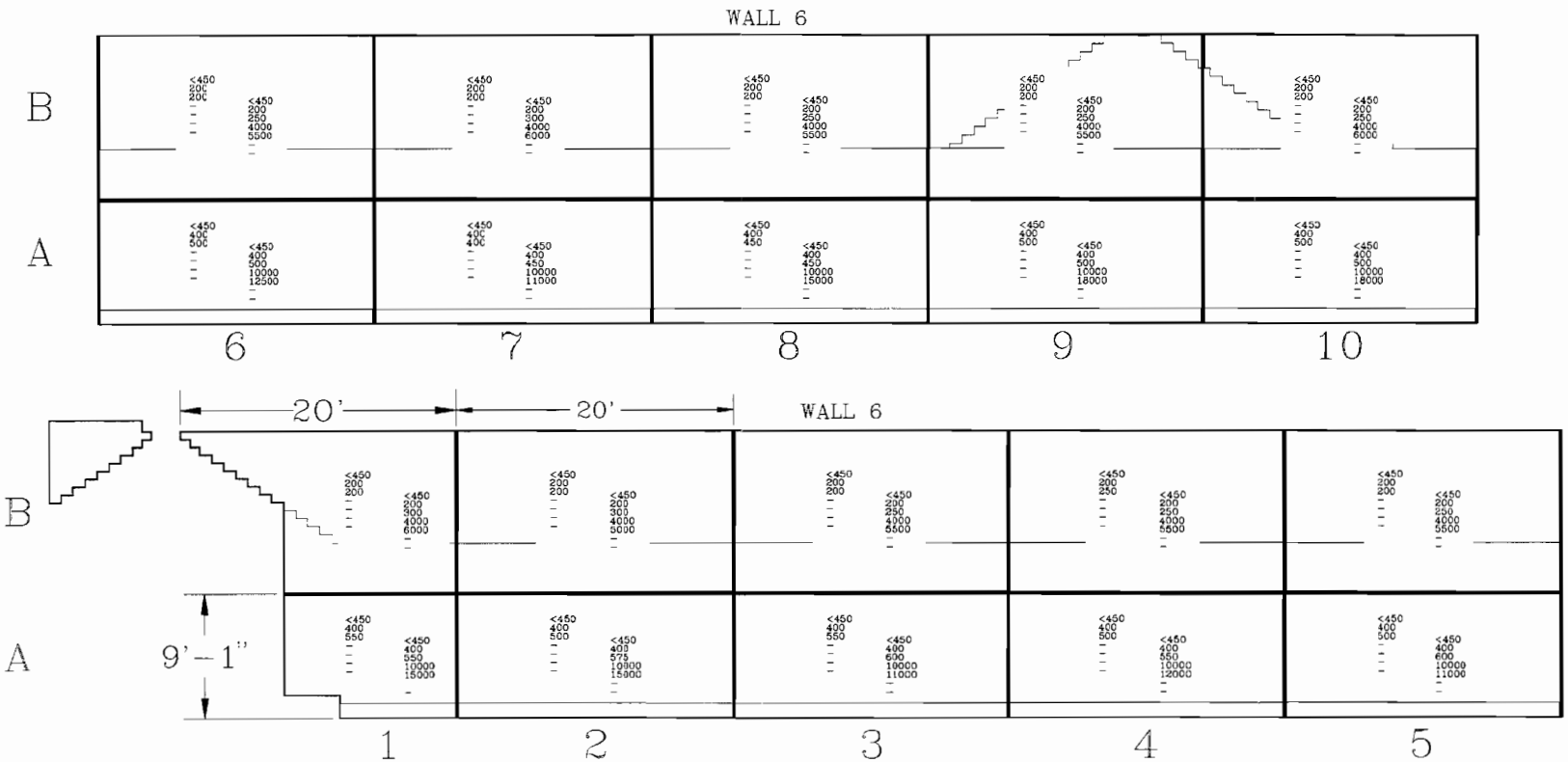
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (WALL 6)

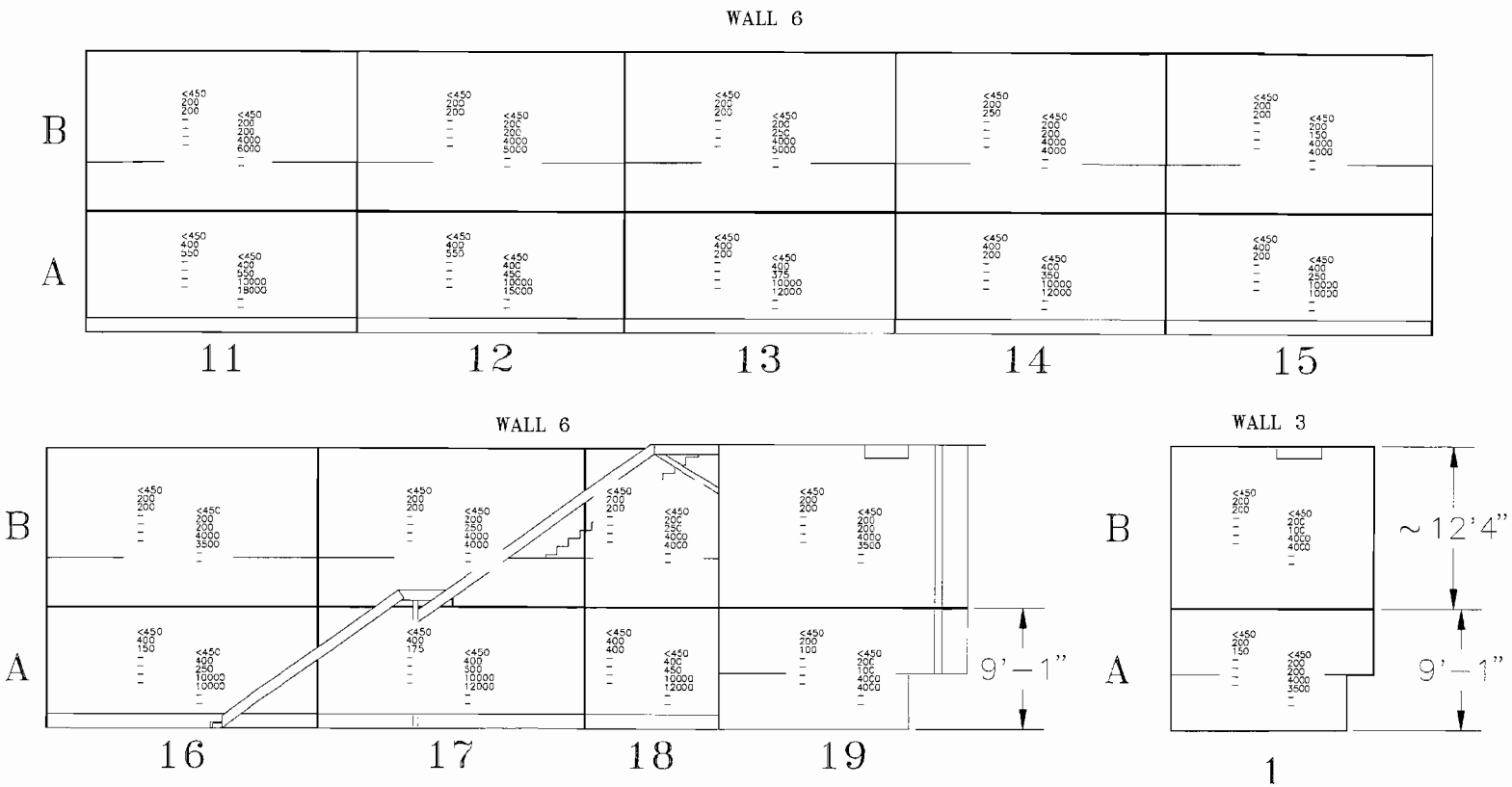


Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (WALL 3 & 6)

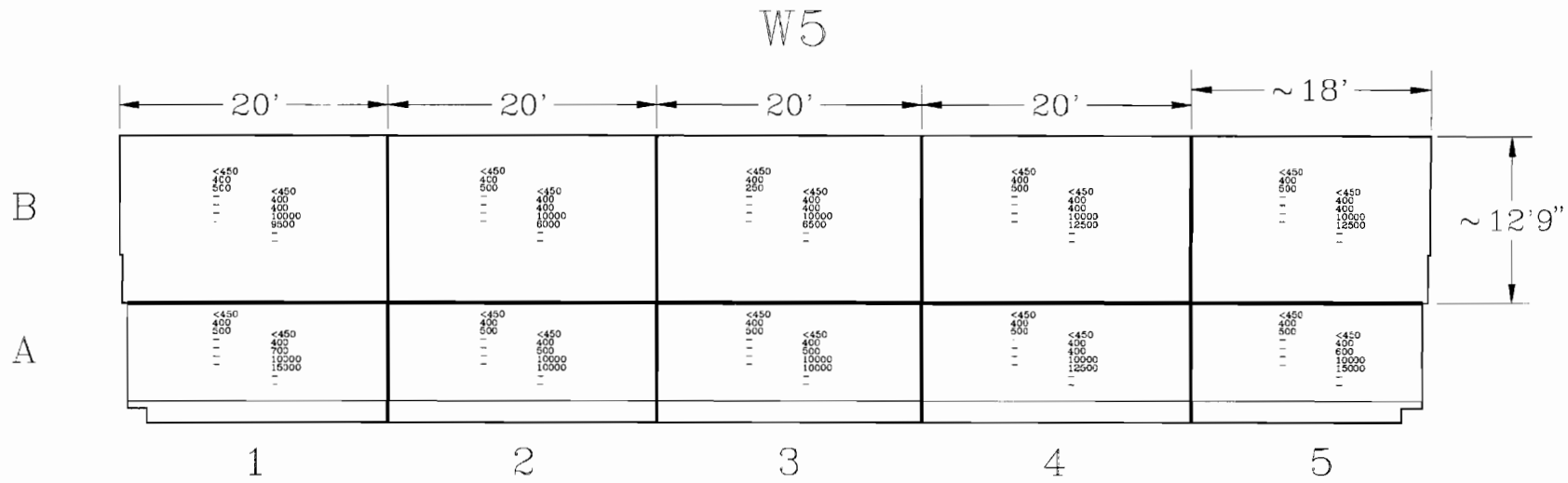


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (WALL 5)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
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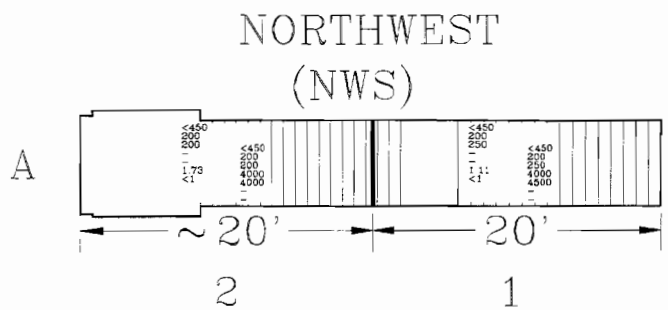
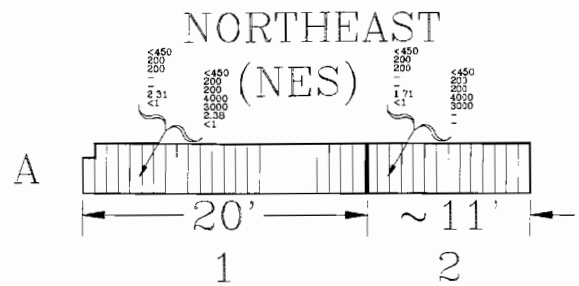
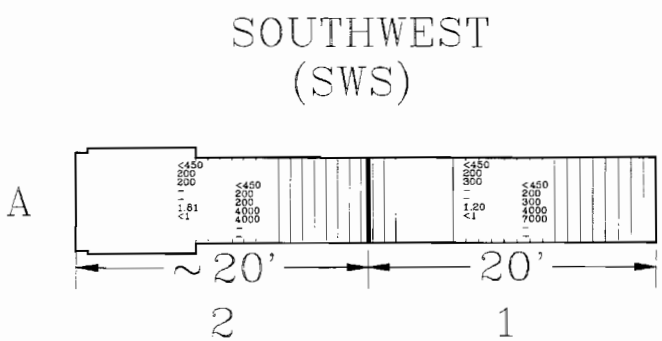
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

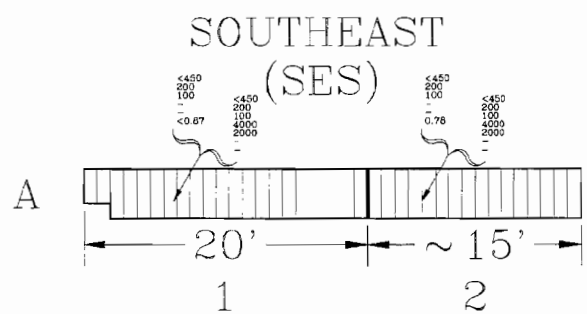
4. Dry Dock 4

e. Localized Grid Maps (STAIRS)









Sample Data

<450 – IM-247/PD Results [μμCv/20cm²]
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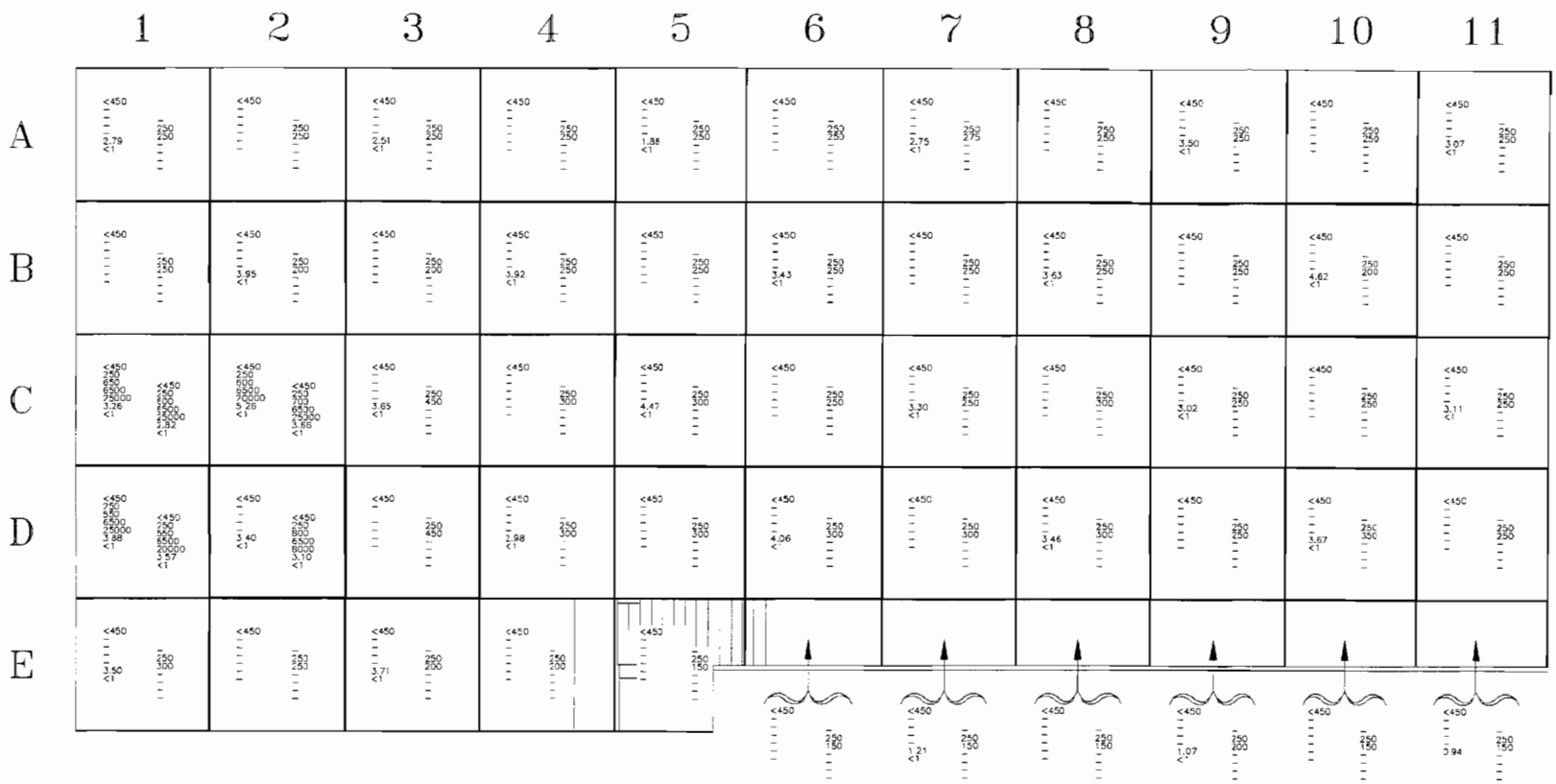
7000 – IM-253/PD (HV-2 GRCSS) [bkg.]
7300 – IM-253/PD (HV-2 GRCSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)



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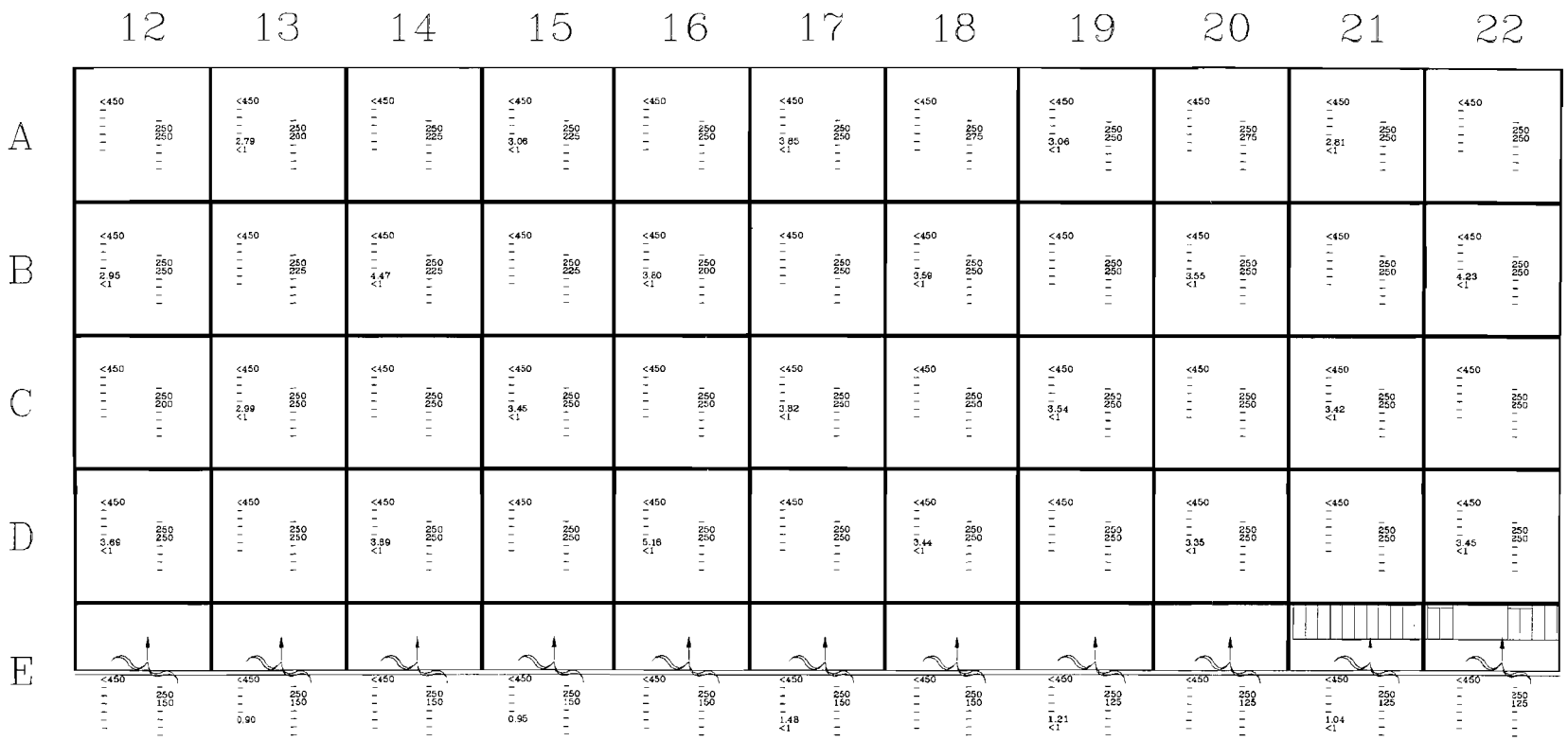
4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)



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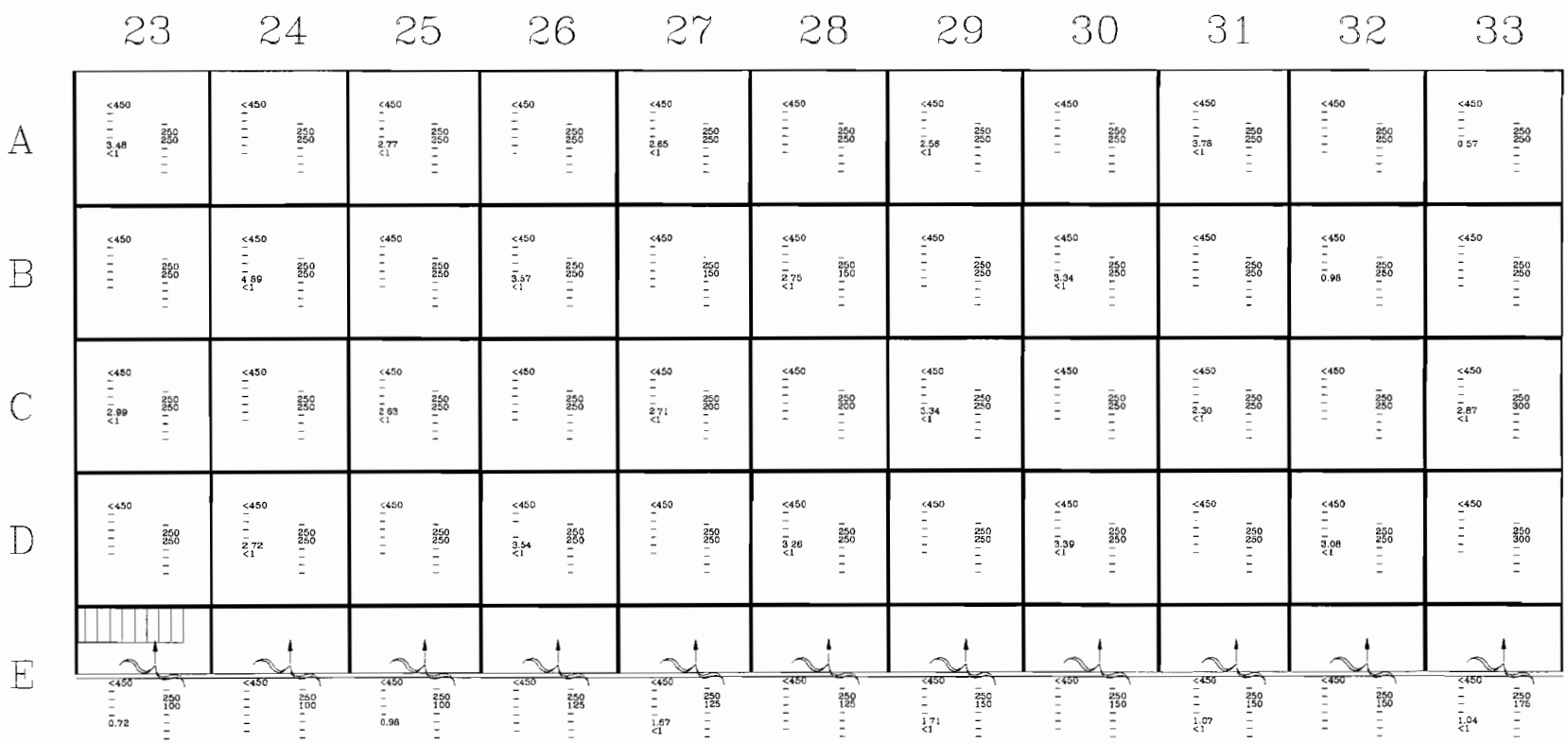
4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)

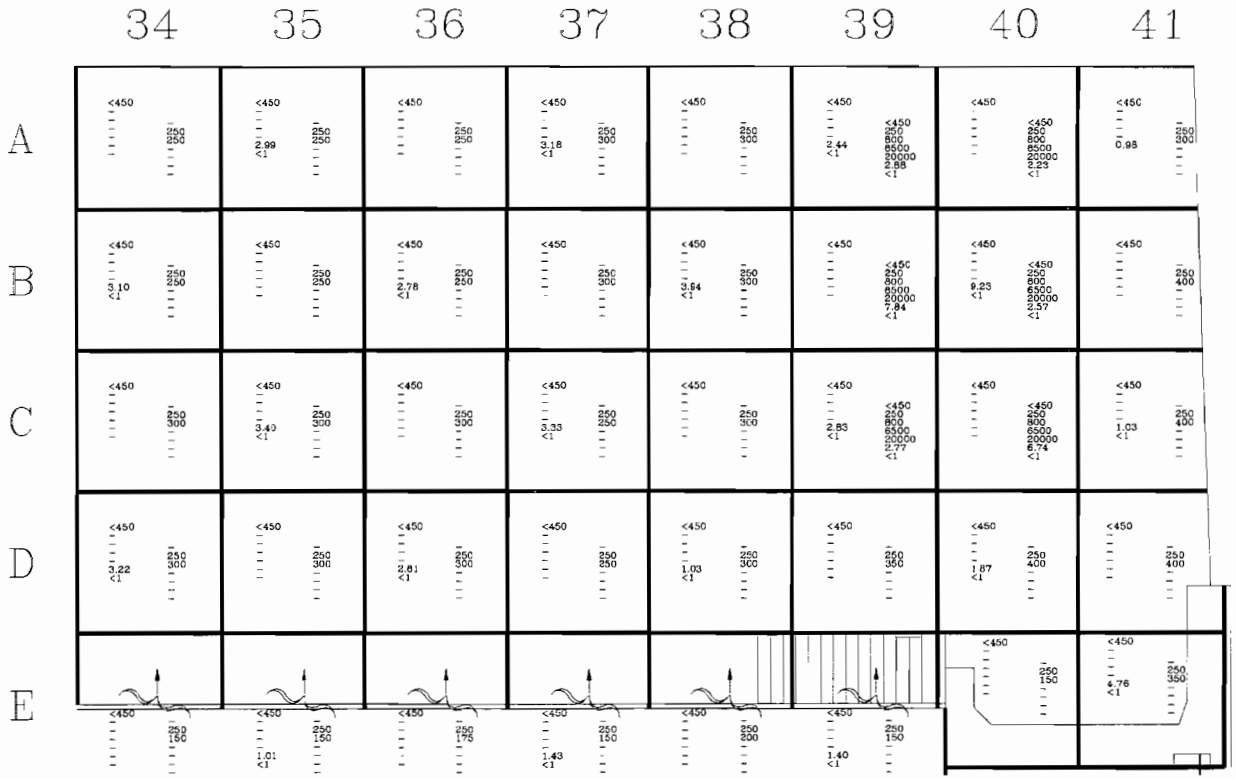


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)

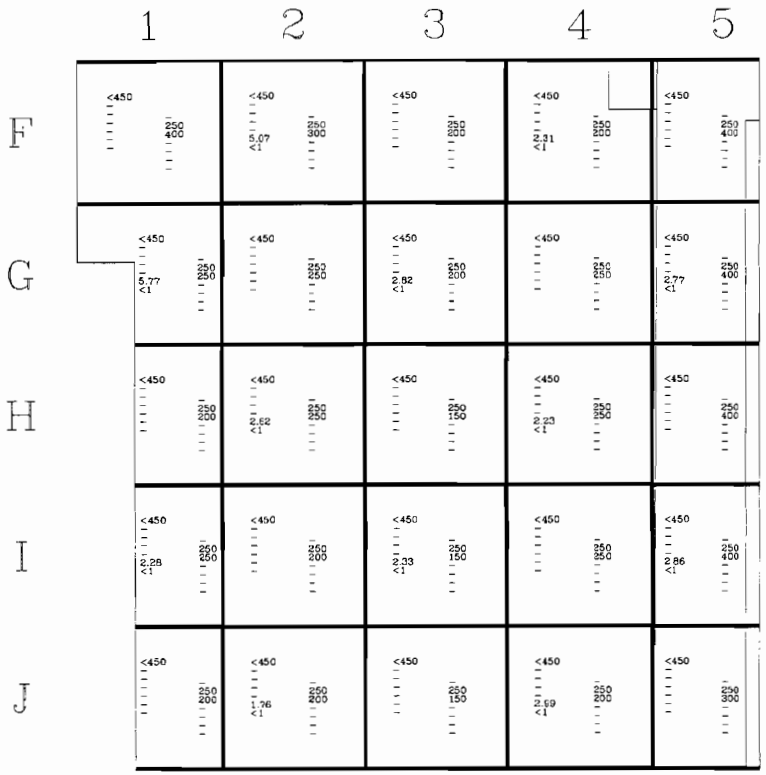


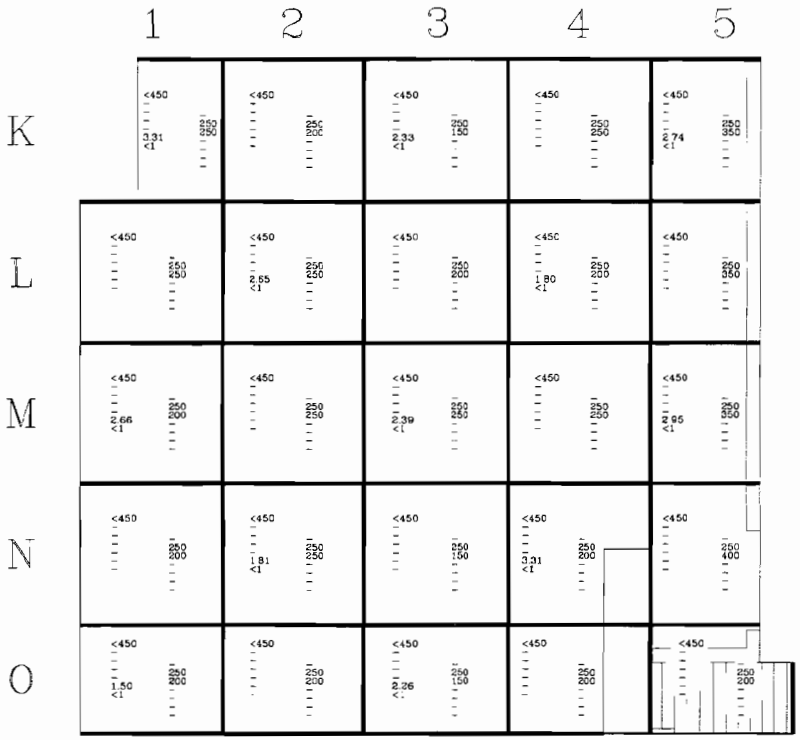
Sample Data

< 450 – IM-247/PD Results ($\mu\mu$Cv/20cm^2)
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCv/g]
<1 – MCA Specific Co-60 Results [pCv/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)



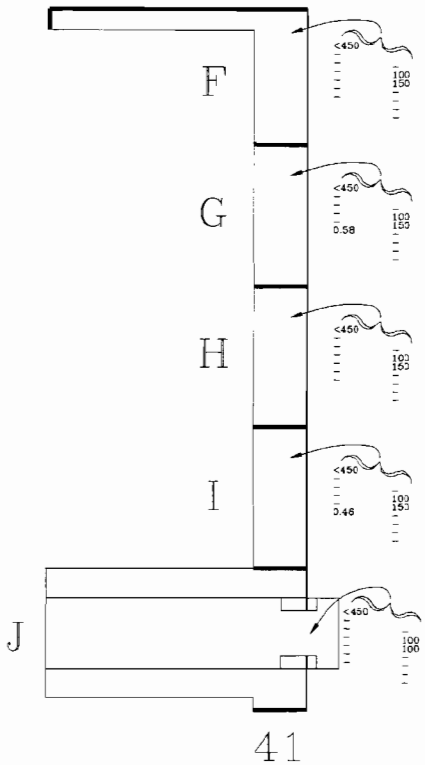


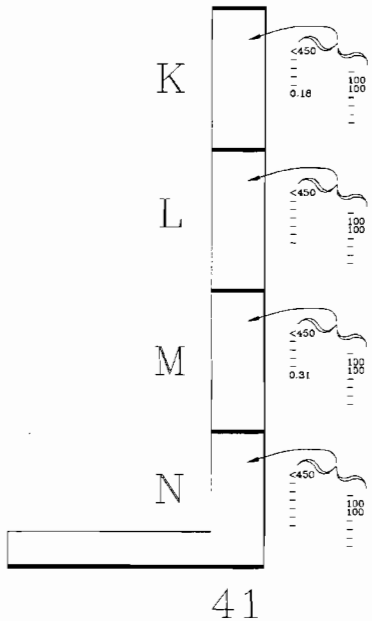
Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)



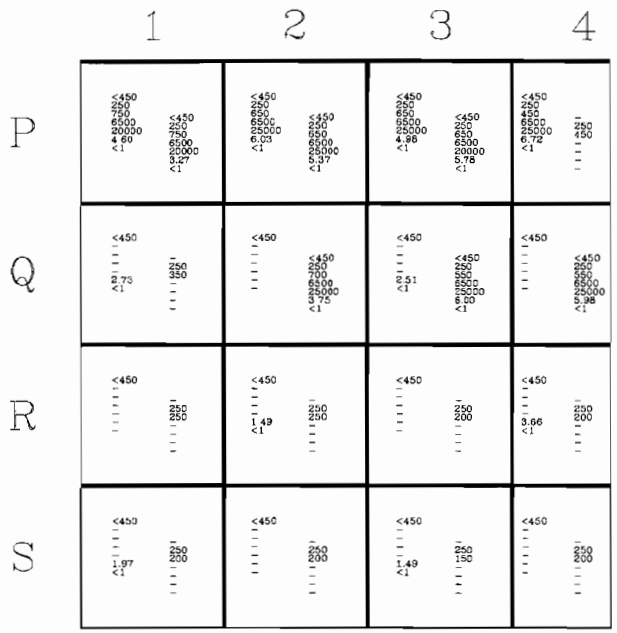


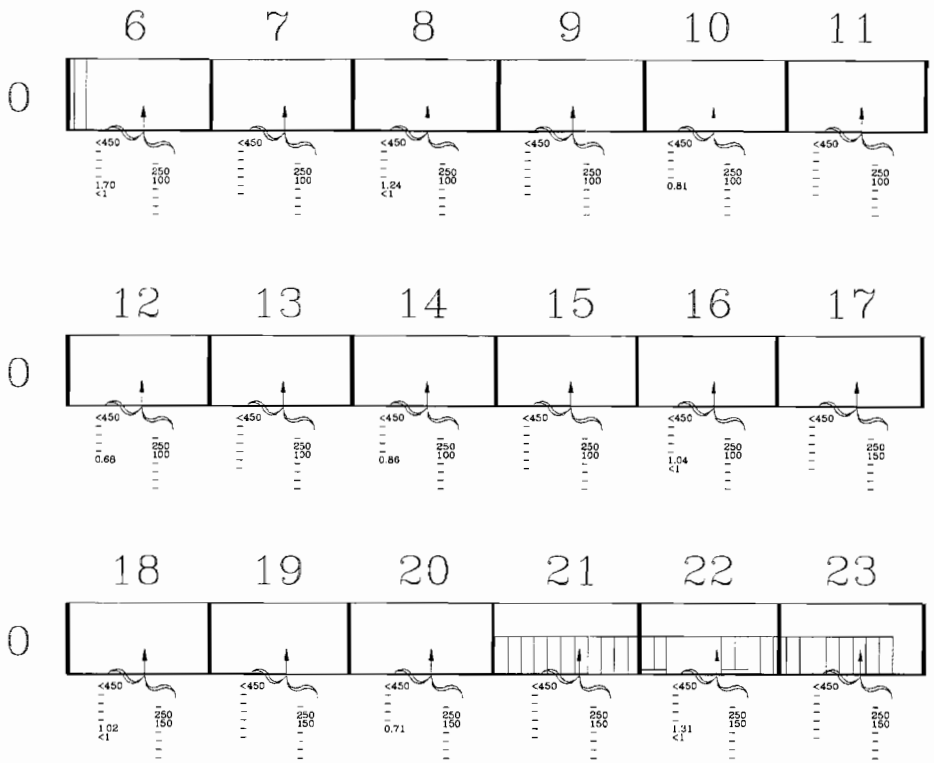
Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)



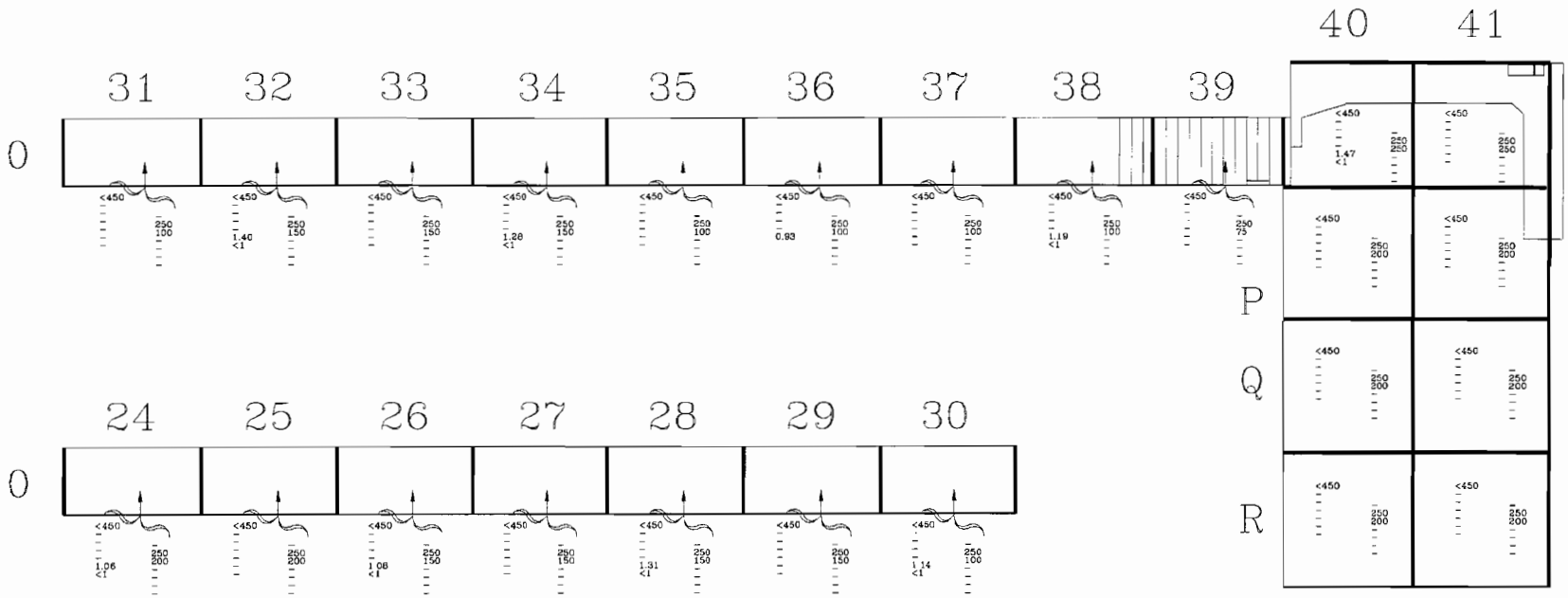


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (ADJACENT AREA)

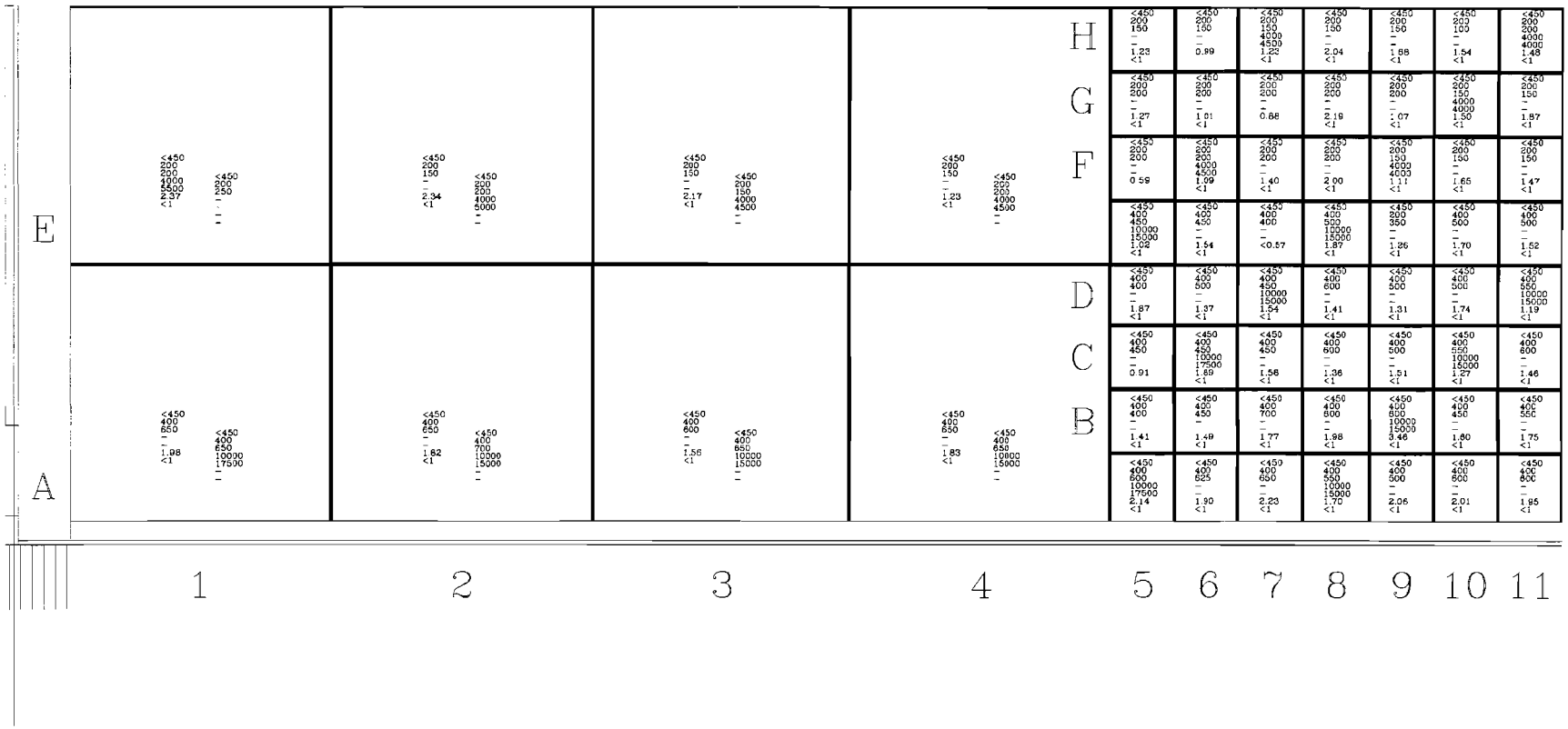


Sample Data

<450 – IM-247/PD Results [μμCv/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCv/g]
<1 – MCA Specific Co-60 Results [pCv/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)



Sample Data

< 450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)

	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
H	<450 200 150 – – 1.85 <1	<450 200 150 – – 0.74	<450 200 200 – – 1.34 <1	<450 200 200 4000 4000 1.87 <1	<450 200 150 – – 1.40 <1	<450 200 150 – – 1.65 <1	<450 200 100 – – 1.54 <1	<450 200 150 4000 4000 1.29 <1	<450 200 100 – – 1.42 <1	<450 200 100 – – 1.28 <1	<450 200 100 – – 0.95	<450 200 100 4000 4000 1.03 <1	<450 200 100 – – 1.25 <1	<450 200 100 – – 0.61	<450 200 150 – – 1.26 <1	<450 200 150 4000 4000 1.13 <1	<450 200 50 – – 1.12 <1	<450 200 150 – – 1.55 <1	<450 200 150 – – 1.47 <1	<450 200 150 4000 4500 1.90 <1	<450 200 200 – – 1.99 <1	<450 200 200 – – 1.21 <1	<450 200 200 – – 1.27 <1
G	<450 200 150 – – 1.70 <1	<450 200 150 – – 1.79 <1	<450 200 150 4000 4500 1.14 <1	<450 200 150 – – 1.57 <1	<450 200 200 – – 1.15 <1	<450 200 150 – – 1.47 <1	<450 200 150 4000 4500 1.61 <1	<450 200 200 – – 1.14 <1	<450 200 150 – – 0.89	<450 200 150 – – 1.50 <1	<450 200 150 4000 4000 1.29 <1	<450 200 200 – – 1.50 <1	<450 200 100 – – 1.52 <1	<450 200 100 – – 1.64 <1	<450 200 150 4000 4000 1.26 <1	<450 200 150 – – 0.73 <1	<450 200 200 – – 1.02 <1	<450 200 150 – – 1.29 <1	<450 200 100 4000 4000 1.06 <1	<450 200 100 – – 0.87 <1	<450 200 175 – – 0.98 <1	<450 200 175 – – 1.42 <1	<450 200 100 4000 4000 1.19 <1
F	<450 200 150 – – 1.44 <1	<450 200 150 4000 4500 2.02 <1	<450 200 150 – – 1.48 <1	<450 200 150 – – 1.87 <1	<450 200 200 – – 1.22 <1	<450 200 150 – – 2.00 <1	<450 200 150 – – 1.35 <1	<450 200 150 – – 1.70 <1	<450 200 150 – – 1.23 <1	<450 200 200 – – 0.97	<450 200 50 – – 1.13 <1	<450 200 150 – – 1.52 <1	<450 200 150 – – 1.36 <1	<450 200 150 4000 4000 1.49 <1	<450 200 50 – – 1.34 <1	<450 200 150 – – 1.39 <1	<450 200 150 – – <0.46	<450 200 200 4000 4000 1.29 <1	<450 200 200 – – 0.82	<450 200 200 – – 1.41 <1	<450 200 150 – – 0.98	<450 200 150 4000 4000 1.24 <1	<450 200 175 – – 1.61 <1
E	<450 200 150 10000 15000 1.32 <1	<450 400 450 – – 1.11 <1	<450 400 375 – – 1.79 <1	<450 200 150 – – 1.49 <1	<450 200 200 4000 4500 1.21 <1	<450 200 150 4000 4500 1.41 <1	<450 200 150 – – 1.61 <1	<450 200 200 – – 1.64 <1	<450 200 150 4000 4500 1.68 <1	<450 200 150 4000 5000 1.62 <1	<450 200 200 – – 1.62 <1	<450 200 150 – – 1.02 <1	<450 200 100 4000 4000 1.28 <1	<450 200 100 – – 1.72 <1	<450 200 150 – – 1.92 <1	<450 200 150 – – 2.04 <1	<450 200 150 4000 4000 1.43 <1	<450 200 150 – – 1.95 <1	<450 200 150 – – 2.15 <1	<450 200 200 – – 1.66 <1	<450 200 150 4000 4500 1.31 <1	<450 200 150 – – 1.73 <1	<450 200 150 – – 1.09 <1
D	<450 400 550 – – 1.35 <1	<450 400 500 – – 1.73 <1	<450 400 550 – – 1.06 <1	<450 200 150 4000 4000 1.13 <1	<450 200 100 – – <0.59 <1	<450 200 150 – – 1.06 <1	<450 200 150 – – 1.08 <1	<450 200 150 4000 4000 1.12 <1	<450 200 100 – – 1.43 <1	<450 200 200 – – 1.23 <1	<450 200 200 – – 1.03 <1	<450 200 150 4000 4000 1.36 <1	<450 200 150 – – 0.80 <1	<450 200 200 – – 1.28 <1	<450 200 150 – – 0.90 <1	<450 200 150 4000 3500 1.01 <1	<450 200 150 – – 0.85 <1	<450 200 150 – – 0.70 <1	<450 200 150 – – 1.43 <1	<450 200 100 4000 7000 0.81 <1	<450 200 150 – – 1.19 <1	<450 200 150 – – 1.22 <1	<450 200 125 – – 1.03 <1
C	<450 400 600 – – 1.74 <1	<450 400 550 – – 1.25 <1	<450 400 500 10000 12500 1.82 <1	<450 200 200 – – 1.70 <1	<450 200 200 – – 1.25 <1	<450 200 150 – – 0.65	<450 200 150 4000 4500 0.84	<450 200 200 – – 0.98	<450 200 100 – – 1.17 <1	<450 200 150 – – 1.45 <1	<450 200 150 4000 4000 1.15 <1	<450 200 200 – – 1.14 <1	<450 200 200 – – 1.10 <1	<450 200 200 – – 1.18 <1	<450 200 150 4000 4000 0.92	<450 200 200 – – 1.23 <1	<450 200 150 – – 1.27 <1	<450 200 200 – – 1.57 <1	<450 200 200 4000 5000 0.75	<450 200 150 – – 0.88	<450 200 200 – – 0.95	<450 200 125 – – 1.17 <1	<450 200 200 4000 4500 0.85
B	<450 400 600 – – 2.10 <1	<450 400 550 10000 15000 2.05 <1	<450 400 600 – – 1.48 <1	<450 200 150 – – 1.90 <1	<450 200 200 – – 1.82 <1	<450 200 150 4500 4500 1.03 <1	<450 200 150 – – 1.01 <1	<450 200 200 – – 1.06 <1	<450 200 150 – – 1.21 <1	<450 200 100 4000 4000 1.58 <1	<450 200 200 – – 1.01 <1	<450 200 150 – – 1.59 <1	<450 200 100 – – 1.83 <1	<450 200 150 4000 4000 1.84 <1	<450 200 50 – – 1.73 <1	<450 200 150 – – 1.73 <1	<450 200 150 – – 1.47 <1	<450 200 200 4000 4000 1.32 <1	<450 200 200 – – 1.49 <1	<450 200 150 – – 1.19 <1	<450 200 150 – – 1.13 <1	<450 200 200 4000 4000 1.36 <1	<450 200 150 – – 1.50 <1
A	<450 400 600 10000 17000 1.55 <1	<450 400 550 – – 1.66 <1	<450 400 600 – – 1.47 <1	<450 200 150 – – 0.92	<450 200 150 4500 5500 2.00 <1	<450 200 300 – – 1.98 <1	<450 200 200 – – 1.25 <1	<450 200 250 – – 1.29 <1	<450 200 200 4000 5000 1.43 <1	<450 200 200 – – 1.86 <1	<450 200 200 – – 1.27 <1	<450 200 200 – – 1.54 <1	<450 200 200 4000 5000 1.33 <1	<450 200 200 – – 1.46 <1	<450 200 200 – – 1.59 <1	<450 200 300 – – 1.26 <1	<450 200 400 4000 6000 1.38 <1	<450 200 150 – – 1.83 <1	<450 200 250 – – 1.41 <1	<450 200 200 – – 1.42 <1	<450 200 150 4000 4000 1.76 <1	<450 200 200 – – 1.64 <1	<450 200 200 – – 0.93

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)

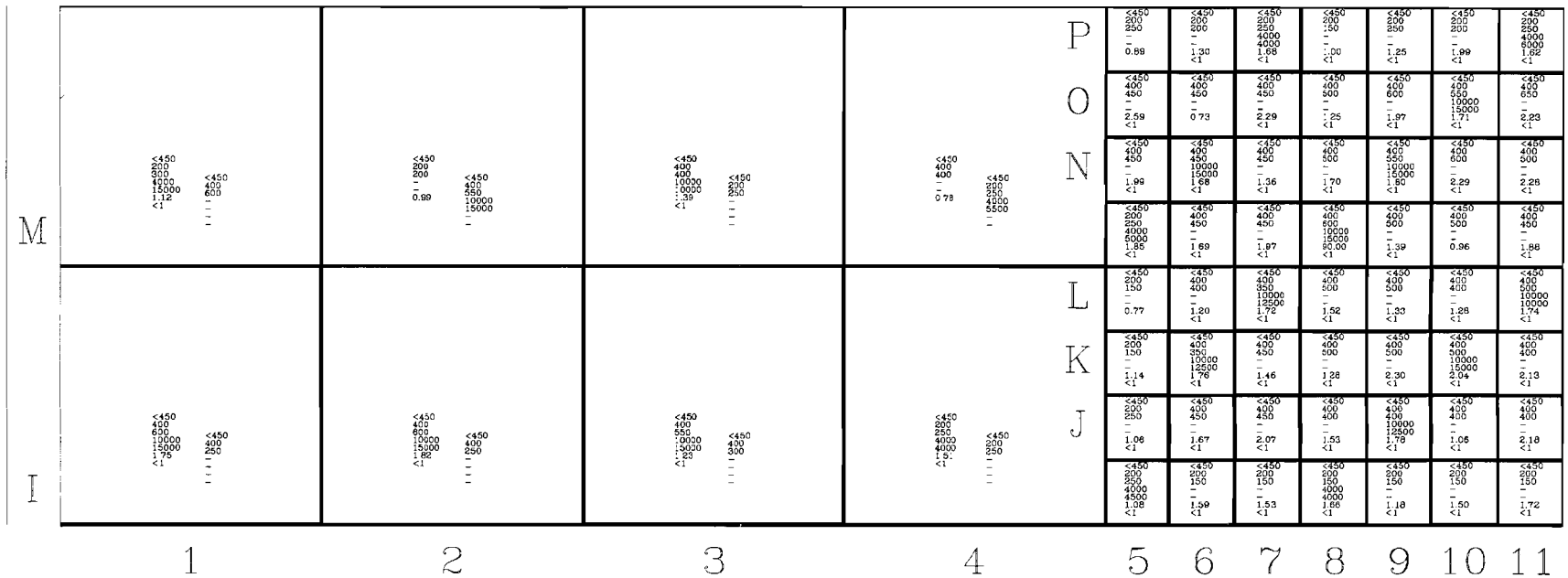
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
H	<450 200 200 4000 3750 1.37 <1	<450 200 200 – – 1.21 <1	<450 200 200 – – 1.25 <1	<450 200 200 – – 1.42 <1	<450 200 200 4000 3500 1.31 <1	<450 200 200 – – 1.25 <1	<450 200 200 – – 0.77	<450 200 250 – – 1.32 <1	<450 200 200 4000 3750 1.35 <1	<450 200 100 – – 1.20 <1	<450 200 150 – – 1.16 <1	<450 200 150 – – 1.44 <1	<450 200 100 4000 3000 1.10 <1	<450 200 150 – – 0.61	<450 200 150 – – 0.90	<450 200 150 – – 0.87	<450 200 150 4300 3500 0.89	<450 200 100 – – 1.70 <1	<450 200 125 4000 3500 1.33 <1	<450 200 150 – – 1.59 <1	<450 200 125 – – 0.95
G	<450 200 150 – – 1.06 <1	<450 200 150 – – 1.84 <1	<450 200 150 – – 0.96	<450 200 100 4000 3000 0.99	<450 200 100 – – 1.47 <1	<450 200 100 – – 1.44 <1	<450 200 100 – – 1.50 <1	<450 200 150 4000 4500 1.20 <1	<450 200 150 – – 1.62 <1	<450 200 100 – – 1.54 <1	<450 200 100 – – 1.59 <1	<450 200 100 4000 4000 2.28 <1	<450 200 100 – – 1.65 <1	<450 200 150 – – 1.01 <1	<450 200 150 – – 1.01 <1	<450 200 100 4000 3500 1.61 <1	<450 200 150 – – 1.34 <1	<450 200 100 – – 0.92	<450 200 150 – – <0.42	<450 200 150 4000 3500 0.71	<450 200 150 – – 0.82
F	<450 200 150 – – 1.15 <1	<450 200 150 – – 1.59 <1	<450 200 150 4000 3500 1.43 <1	<450 200 100 – – 1.49 <1	<450 200 100 – – 1.01 <1	<450 200 150 – – 2.11 <1	<450 200 150 4500 4500 1.25 <1	<450 200 150 – – 2.35 <1	<450 200 150 – – 2.40 <1	<450 200 100 – – 2.08 <1	<450 200 100 4200 3500 0.91	<450 200 100 – – 1.43 <1	<450 200 100 – – 2.08 <1	<450 200 150 – – 1.65 <1	<450 200 150 4000 4250 1.91 <1	<450 200 150 – – 1.87 <1	<450 200 150 – – 1.99 <1	<450 200 150 4000 3500 1.32 <1	<450 200 150 – – 1.38 <1	<450 200 150 – – 0.81	<450 200 150 – – 1.47 <1
E	<450 200 150 – – 1.59 <1	<450 200 150 4000 3750 1.36 <1	<450 200 175 – – 1.19 <1	<450 200 175 – – 1.24 <1	<450 200 150 – – 1.15 <1	<450 200 150 4000 4000 1.22 <1	<450 200 150 – – 1.40 <1	<450 200 150 – – 1.91 <1	<450 200 150 – – 2.25 <1	<450 200 100 4000 3500 2.65 <1	<450 200 100 – – 1.39 <1	<450 200 100 – – 1.81 <1	<450 200 100 – – 1.89 <1	<450 200 150 4000 4500 1.44 <1	<450 200 150 – – 1.34 <1	<450 200 150 – – 2.36 <1	<450 200 150 – – 1.31 <1	<450 200 175 – – 1.16 <1	<450 200 150 4000 4000 1.82 <1	<450 200 200 – – 1.30 <1	<450 200 150 – – 2.47 <1
D	<450 200 200 4000 3500 1.42 <1	<450 200 150 – – 1.39 <1	<450 200 125 – – 1.32 <1	<450 200 175 – – 1.57 <1	<450 200 150 4000 3000 1.25 <1	<450 200 150 – – 1.28 <1	<450 200 125 – – 1.05 <1	<450 200 150 – – 1.56 <1	<450 200 150 4000 3000 1.33 <1	<450 200 125 – – 1.65 <1	<450 200 150 – – 1.17 <1	<450 200 125 – – 1.34 <1	<450 200 125 4000 4000 1.95 <1	<450 200 150 – – 1.18 <1	<450 200 125 – – 1.16 <1	<450 200 150 – – 1.50 <1	<450 200 150 – – 1.81 <1	<450 200 150 – – 1.38 <1	<450 200 250 – – 1.84 <1	<450 200 150 – – 1.19 <1	<450 200 150 4000 4000 1.22 <1
C	<450 200 200 – – 1.09 <1	<450 200 125 – – 1.17 <1	<450 200 125 – – 1.50 <1	<450 200 150 4000 3000 1.42 <1	<450 200 150 – – 1.52 <1	<450 200 100 – – 1.00 <1	<450 200 125 – – 0.96	<450 200 150 4000 3500 0.74	<450 200 150 – – 1.04 <1	<450 200 125 – – 0.68	<450 200 150 – – 1.01 <1	<450 200 125 4000 4000 1.30 <1	<450 200 150 – – 1.35 <1	<450 200 125 – – 1.55 <1	<450 200 125 – – 1.34 <1	<450 200 150 4000 4000 1.37 <1	<450 200 150 – – 1.54 <1	<450 200 150 – – 1.39 <1	<450 200 150 – – 1.15 <1	<450 200 150 4000 4000 1.78 <1	<450 200 150 – – 1.26 <1
B	<450 200 150 – – 1.39 <1	<450 200 175 – – 1.44 <1	<450 200 100 4000 4000 1.21 <1	<450 200 200 – – 1.27 <1	<450 200 150 – – 1.40 <1	<450 200 150 – – 1.05 <1	<450 200 150 4000 4000 1.18 <1	<450 200 125 – – 1.94 <1	<450 200 175 – – 1.50 <1	<450 200 175 – – 1.28 <1	<450 200 150 4000 4500 1.07 <1	<450 200 150 – – 0.80	<450 200 175 – – 1.45 <1	<450 200 225 – – 1.77 <1	<450 200 225 4000 4000 1.93 <1	<450 200 150 – – 1.76 <1	<450 200 150 – – 1.28 <1	<450 200 175 – – 1.08 <1	<450 200 150 4000 4000 1.49 <1	<450 200 150 – – 0.77	<450 200 150 – – 2.08 <1
A	<450 200 200 – – 1.54 <1	<450 200 225 4000 3250 1.11 <1	<450 200 200 – – 1.43 <1	<450 200 250 – – 1.02 <1	<450 200 150 – – 0.56	<450 200 150 4000 6000 1.36 <1	<450 200 200 – – 1.22 <1	<450 200 125 – – 1.16 <1	<450 200 200 – – 1.32 <1	<450 200 150 4000 6000 1.01 <1	<450 200 200 – – 1.45 <1	<450 200 225 – – 1.06 <1	<450 200 200 – – 1.36 <1	<450 200 300 4000 6500 1.29 <1	<450 200 300 – – 1.97 <1	<450 200 350 – – 1.77 <1	<450 200 350 – – 1.72 <1	<450 200 200 4000 6500 1.51 <1	<450 200 200 – – 1.36 <1	<450 200 200 – – 1.37 <1	<450 200 250 – – 1.95 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 FHA) [bkg.]
300 – IM-253/PD (HV-1 FHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)

	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
P	<450 200 250 – – 1.88 <1	<450 200 250 – – 1.98 <1	<450 200 200 – – 1.11 <1	<450 200 250 4000 6000 1.21 <1	<450 200 100 – – 0.86	<450 200 150 – – 0.77	<450 200 100 – – 1.23 <1	<450 200 100 4000 4200 1.26 <1	<450 200 200 – – 2.06 <1	<450 200 150 – – 1.63 <1	<450 200 175 – – 1.15 <1	<450 200 175 4000 5000 0.76	<450 200 150 – – 1.53 <1	<450 200 100 – – 1.75 <1	<450 200 100 – – 1.12 <1	<450 200 100 4000 4500 1.07 <1	<450 200 200 – – 0.67	<450 200 200 – – 1.54 <1	<450 200 100 – – 1.30 <1	<450 200 100 4000 3000 1.86 <1	<450 200 175 – – 0.84	<450 200 175 – – <0.54	<450 200 175 – – 0.75
O	<450 400 650 – – 2.16 <1	<450 400 650 – – 2.68 <1	<450 400 650 10000 15000 1.78 <1	<450 400 500 – – 1.57 <1	<450 200 150 – – 1.77 <1	<450 200 150 – – 0.58	<450 200 150 4000 4500 1.39 <1	<450 200 150 – – 1.53 <1	<450 200 175 – – 1.25 <1	<450 200 150 – – 1.56 <1	<450 200 175 4000 4500 0.89	<450 200 150 – – 0.98	<450 200 150 – – 1.87 <1	<450 200 150 – – 1.44 <1	<450 200 150 4000 4000 1.06 <1	<450 200 150 – – 0.87	<450 200 200 – – 1.63 <1	<450 200 150 – – 1.53 <1	<450 200 150 4000 3500 1.51 <1	<450 200 175 – – 1.88 <1	<450 200 175 – – 1.67 <1	<450 200 150 – – 1.64 <1	<450 200 175 4000 4000 1.16 <1
N	<450 400 650 – – 1.87 <1	<450 400 650 10000 15000 2.50 <1	<450 400 650 – – 1.85 <1	<450 400 600 – – 1.46 <1	<450 400 500 – – 1.59 <1	<450 400 500 10000 15000 1.73 <1	<450 400 500 – – 1.50 <1	<450 400 500 – – 1.83 <1	<450 400 500 – – 1.78 <1	<450 400 600 10000 15000 1.99 <1	<450 200 175 – – 1.27 <1	<450 200 200 – – 1.29 <1	<450 200 150 – – 0.97	<450 200 150 4000 4250 1.71 <1	<450 200 150 – – 1.01 <1	<450 200 150 – – 1.36 <1	<450 200 150 – – 1.40 <1	<450 200 150 4000 5000 1.27 <1	<450 200 175 – – 1.89 <1	<450 200 150 – – 1.99 <1	<450 200 150 – – 1.77 <1	<450 200 175 4000 3500 1.79 <1	<450 200 150 – – 1.39 <1
M	<450 400 350 10000 9500 1.83 <1	<450 400 600 – – 1.99 <1	<450 400 600 – – 1.88 <1	<450 400 600 – – 1.70 <1	<450 400 400 10000 15000 1.88 <1	<450 400 500 – – 2.20 <1	<450 400 600 – – 2.44 <1	<450 400 550 – – 1.69 <1	<450 400 600 10000 15000 2.20 <1	<450 400 650 – – 2.86 <1	<450 200 250 – – 2.10 <1	<450 200 250 – – 1.61 <1	<450 200 150 4000 4000 1.05 <1	<450 200 150 – – 1.73 <1	<450 200 150 – – 1.69 <1	<450 200 150 – – 1.76 <1	<450 200 150 4000 5000 0.81	<450 200 150 – – 1.19 <1	<450 200 125 – – 1.10 <1	<450 200 100 – – 1.32 <1	<450 200 100 4000 3000 1.16 <1	<450 200 100 – – 1.03 <1	<450 200 125 – – 0.85
L	<450 400 150 – – 2.07 <1	<450 400 150 – – 2.16 <1	<450 400 500 – – 1.61 <1	<450 400 450 10000 10000 1.91 <1	<450 400 500 – – 2.23 <1	<450 400 550 – – 1.62 <1	<450 400 375 – – 1.87 <1	<450 400 375 10000 17500 2.55 <1	<450 400 600 – – 1.43 <1	<450 400 600 – – 2.05 <1	<450 200 200 – – 1.70 <1	<450 200 150 4000 3500 1.06 <1	<450 200 150 – – 1.33 <1	<450 200 150 – – 1.61 <1	<450 200 100 – – 1.33 <1	<450 200 150 4000 3500 1.76 <1	<450 200 200 – – 1.73 <1	<450 200 175 – – 1.84 <1	<450 200 150 – – 1.25 <1	<450 200 200 4000 3750 1.25 <1	<450 200 150 – – 1.03 <1	<450 200 150 – – 0.71	<450 200 150 – – 1.11 <1
K	<450 400 200 – – 1.21 <1	<450 400 200 – – 1.10 <1	<450 400 200 10000 5000 1.11 <1	<450 400 150 – – 0.86	<450 400 450 – – 0.68	<450 400 500 – – 1.76 <1	<450 400 550 10000 10000 1.33 <1	<450 400 500 – – <0.50	<450 400 600 – – 1.43 <1	<450 400 600 – – 2.00 <1	<450 200 200 4000 4000 1.31 <1	<450 200 150 – – 1.29 <1	<450 200 100 – – 1.44 <1	<450 200 100 – – 1.52 <1	<450 200 100 4000 3000 0.64	<450 200 100 – – 1.06 <1	<450 200 175 – – 1.27 <1	<450 200 150 – – 0.64	<450 200 150 4000 3750 1.23 <1	<450 200 175 – – 1.03 <1	<450 200 150 – – 1.46 <1	<450 200 150 – – 1.62 <1	<450 200 150 4000 3500 1.59 <1
J	<450 400 450 – – 1.39 <1	<450 400 425 10000 10000 1.95 <1	<450 400 400 – – 1.22 <1	<450 400 400 – – 1.29 <1	<450 400 400 – – 1.61 <1	<450 400 450 10000 10000 1.73 <1	<450 400 450 – – 1.62 <1	<450 400 500 – – 1.31 <1	<450 400 450 – – 1.93 <1	<450 400 450 10000 10000 1.04 <1	<450 200 150 – – 1.21 <1	<450 200 200 – – 1.11 <1	<450 200 200 – – 1.29 <1	<450 200 150 4000 4000 2.18 <1	<450 200 100 – – 1.68 <1	<450 200 150 – – 1.43 <1	<450 200 150 – – 1.62 <1	<450 200 150 4000 3750 1.26 <1	<450 200 100 – – 1.13 <1	<450 200 150 – – 1.74 <1	<450 200 150 – – 0.72	<450 200 150 4000 3500 <0.42	<450 200 100 – – 1.54 <1
I	<450 200 150 4000 4500 2.39 <1	<450 200 150 – – 1.45 <1	<450 200 200 – – 1.66 <1	<450 200 200 – – 1.29 <1	<450 200 150 4000 4000 1.83 <1	<450 200 150 – – 1.79 <1	<450 200 150 – – 2.14 <1	<450 200 150 – – 4.70 <1	<450 200 150 4000 4000 1.83 <1	<450 200 150 – – 1.44 <1	<450 200 150 – – 1.47 <1	<450 200 175 – – 1.70 <1	<450 200 150 4000 3500 1.54 <1	<450 200 150 – – 2.38 <1	<450 200 150 – – 1.90 <1	<450 200 100 – – 1.19 <1	<450 200 150 4000 3500 1.61 <1	<450 200 100 – – 1.39 <1	<450 200 100 – – 1.26 <1	<450 200 100 – – 1.24 <1	<450 200 100 4000 3500 1.38 <1	<450 200 100 – – 1.72 <1	<450 200 150 – – 1.01 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)

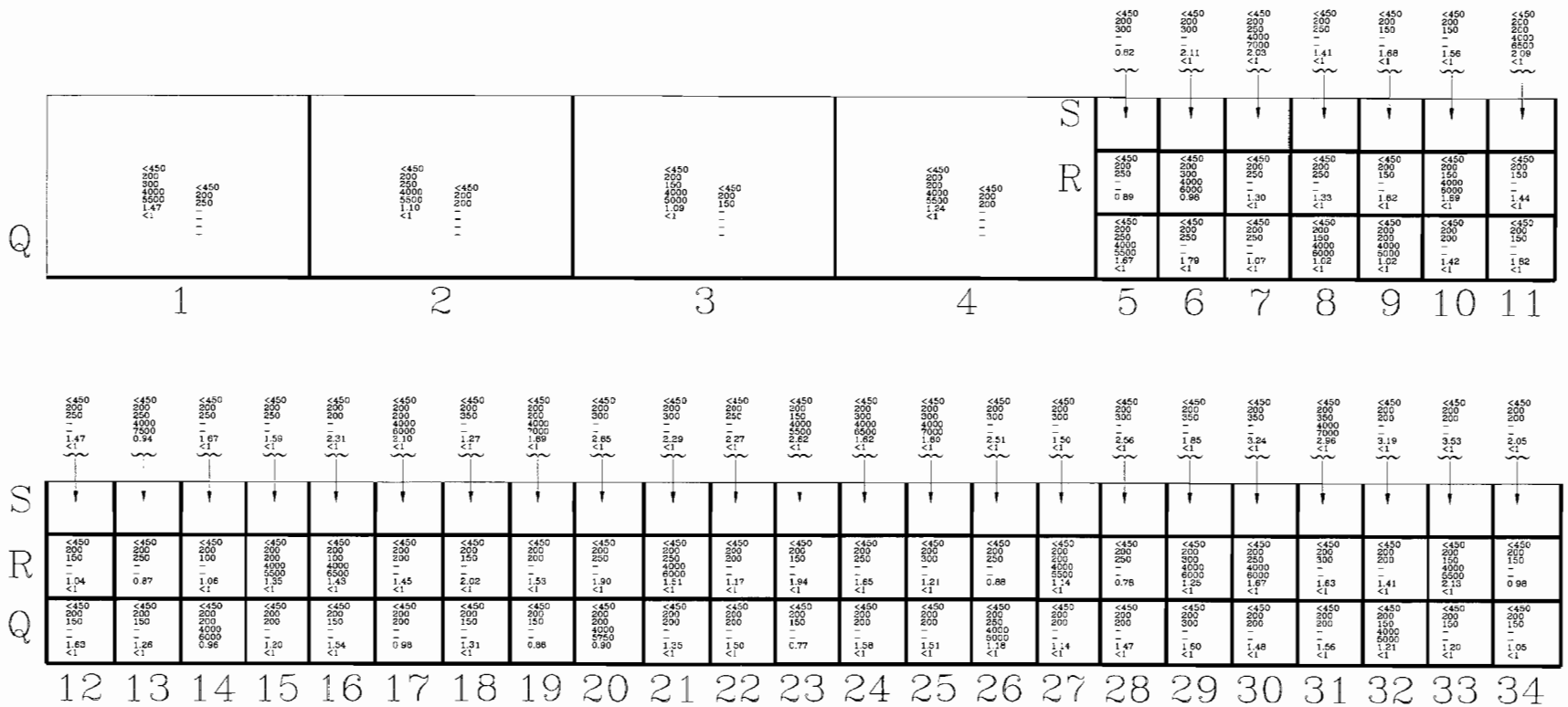
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
P	<450 200 175 4000 4500 0.96	<450 200 350 – – 0.60	<450 200 300 – – 1.14 <1	<450 200 300 – – 1.80 <1	<450 200 300 4000 4000 1.45 <1	<450 200 200 – – 2.15 <1	<450 200 200 – – 1.28 <1	<450 200 150 – – 1.48 <1	<450 200 175 4000 3500 1.34 <1	<450 200 150 – – 1.50 <1	<450 200 125 – – 1.46 <1	<450 200 175 – – 0.90	<450 200 150 4000 4000 1.10 <1	<450 200 150 – – 0.80	<450 200 125 – – 1.13 <1	<450 200 150 – – 1.41 <1	<450 200 150 4000 3000 1.26 <1	<450 200 150 – – 1.02 <1	<450 200 150 4000 4500 1.59 <1	<450 200 150 – – 1.30 <1	<450 200 150 – – 1.30 <1
O	<450 200 175 – – 1.31 <1	<450 200 300 – – 2.28 <1	<450 200 300 – – 2.54 <1	<450 200 250 4000 3500 1.88 <1	<450 200 300 – – 1.72 <1	<450 200 150 – – 2.79 <1	<450 200 200 – – 2.40 <1	<450 200 150 4000 3500 1.21 <1	<450 200 175 – – 0.76	<450 200 250 – – 1.84 <1	<450 200 175 – – 1.37 <1	<450 200 200 4000 4000 1.29 <1	<450 200 200 – – 1.89 <1	<450 200 125 – – 1.58 <1	<450 200 150 – – 1.25 <1	<450 200 100 4000 3500 0.86	<450 200 125 – – 1.64 <1	<450 200 150 4000 4500 1.16 <1	<450 200 150 – – 1.81 <1	<450 200 150 – – 0.92	<450 200 150 – – 1.17 <1
N	<450 200 175 – – 2.05 <1	<450 200 100 – – 2.37 <1	<450 200 100 4000 3500 1.12 <1	<450 200 150 – – 1.24 <1	<450 200 150 – – 1.26 <1	<450 200 100 – – 1.69 <1	<450 200 150 4000 3500 1.47 <1	<450 200 100 – – 1.16 <1	<450 200 150 – – 1.44 <1	<450 200 175 – – 1.80 <1	<450 200 175 4000 3000 1.73 <1	<450 200 175 – – 1.60 <1	<450 200 175 – – 1.34 <1	<450 200 125 – – 1.66 <1	<450 200 100 4000 3500 0.98	<450 200 125 – – 1.18 <1	<450 200 100 – – 1.39 <1	<450 200 200 – – 0.70	<450 200 150 – – 0.98	<450 200 150 4000 4500 0.83	<450 200 150 – – 1.28 <1
M	<450 200 125 – – 1.10 <1	<450 200 150 4000 3500 1.24 <1	<450 200 150 – – 1.48 <1	<450 200 100 – – 0.99	<450 200 100 – – 1.51 <1	<450 200 100 4000 3500 0.84	<450 200 100 – – 1.26 <1	<450 200 150 – – 1.08 <1	<450 200 150 – – 1.42 <1	<450 200 125 4000 3000 0.90	<450 200 100 – – 1.04 <1	<450 200 125 – – 1.06 <1	<450 200 150 – – 1.10 <1	<450 200 100 4000 3000 1.57 <1	<450 200 100 – – 1.47 <1	<450 200 150 – – 2.03 <1	<450 200 100 – – 0.91	<450 200 150 – – 1.09 <1	<450 200 150 – – 1.25 <1	<450 200 150 – – 0.99	<450 200 175 4000 4500 1.76 <1
L	<450 200 100 4000 3500 1.54 <1	<450 200 175 – – 1.86 <1	<450 200 150 – – 2.46 <1	<450 200 300 – – 1.93 <1	<450 200 300 4000 3500 1.26 <1	<450 200 100 – – 1.33 <1	<450 200 100 – – 1.51 <1	<450 200 100 – – 1.03 <1	<450 200 100 4000 3500 1.55 <1	<450 200 100 – – 1.52 <1	<450 200 100 – – 1.68 <1	<450 200 100 – – 1.32 <1	<450 200 150 4000 3000 1.48 <1	<450 200 100 – – 1.84 <1	<450 200 100 – – 1.37 <1	<450 200 150 – – 1.81 <1	<450 200 150 4000 3500 2.13 <1	<450 200 175 4000 4000 0.64	<450 200 200 – – 1.13 <1	<450 200 200 – – 1.86 <1	<450 200 200 – – 1.49 <1
K	<450 200 300 – – 43.88 <1	<450 200 175 – – 0.87	<450 200 150 – – 1.28 <1	<450 200 200 4000 3500 1.43 <1	<450 200 175 – – 1.68 <1	<450 200 100 – – 1.41 <1	<450 200 150 – – 6.85 <1	<450 200 100 4000 3000 1.34 <1	<450 200 150 – – 1.28 <1	<450 200 100 – – 1.18 <1	<450 200 100 – – 1.06 <1	<450 200 100 4000 3000 1.34 <1	<450 200 100 – – 1.27 <1	<450 200 200 – – 1.26 <1	<450 200 150 – – 1.71 <1	<450 200 150 4000 3500 1.91 <1	<450 200 100 – – 1.24 <1	<450 200 200 – – 0.98	<450 200 200 4000 4000 1.39 <1	<450 200 150 – – 1.25 <1	<450 200 175 – – 1.25 <1
J	<450 200 100 – – 1.26 <1	<450 200 150 – – 1.30 <1	<450 200 150 4000 3500 1.24 <1	<450 200 100 – – 0.99	<450 200 150 – – 1.27 <1	<450 200 100 – – 0.96	<450 200 100 4000 3500 1.95 <1	<450 200 100 – – 1.12 <1	<450 200 100 – – 1.20 <1	<450 200 100 – – 1.34 <1	<450 200 100 4000 3500 1.32 <1	<450 200 150 – – 1.21 <1	<450 200 150 – – 1.29 <1	<450 200 150 – – 1.41 <1	<450 200 100 4000 3500 1.26 <1	<450 200 150 – – 0.97	<450 200 100 – – 1.02 <1	<450 200 175 – – 0.97	<450 200 200 – – 1.24 <1	<450 200 200 – – 0.90	<450 200 200 4000 4000 1.51 <1
I	<450 200 150 – – 1.48 <1	<450 200 175 4000 3500 0.80	<450 200 200 – – 1.05 <1	<450 200 200 – – 1.75 <1	<450 200 200 – – 1.61 <1	<450 200 100 4000 3500 1.47 <1	<450 200 100 – – 1.57 <1	<450 200 100 – – 2.14 <1	<450 200 100 – – 2.33 <1	<450 200 100 4000 3500 1.82 <1	<450 200 100 – – 0.76	<450 200 100 – – 1.68 <1	<450 200 100 – – 1.77 <1	<450 200 100 4000 3500 2.19 <1	<450 200 100 – – 2.06 <1	<450 200 100 – – 1.81 <1	<450 200 100 – – 1.11 <1	<450 200 150 – – 1.00 <1	<450 200 150 – – 1.28 <1	<450 200 200 4000 4000 1.69 <1	<450 200 125 – – 1.94 <1

Sample Data

<450 – IM-247/PD Results [μCi/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)



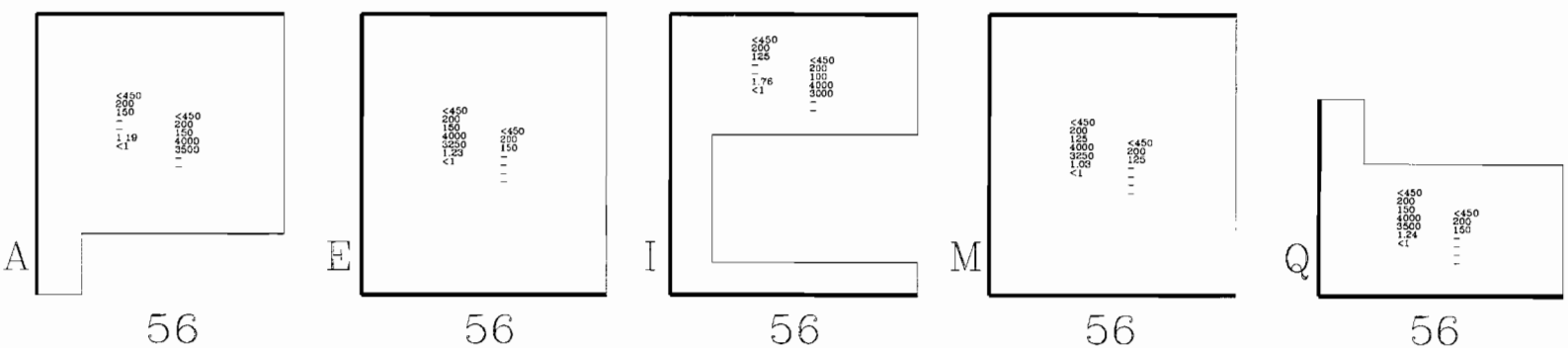
Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

e. Localized Grid Maps (FLOOR)

	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
S	<450 200 200 – – 1.41 <1	<450 200 200 – – 2.54 <1	<450 200 250 250 4500 4500 1.42 <1	<450 200 300 300 – – 1.72 <1	<450 200 300 300 – – 1.57 <1	<450 200 200 200 – – 1.60 <1	<450 200 350 350 – – 2.51 <1	<450 200 200 200 – – 1.76 <1	<450 200 250 250 4000 9000 1.27 <1	<450 200 300 300 – – 2.57 <1	<450 200 300 300 – – 1.66 <1	<450 200 250 250 – – 2.61 <1	<450 200 200 200 – – 2.63 <1	<450 200 300 300 4000 7500 2.54 <1	<450 200 300 300 – – 3.11 <1	<450 200 300 300 – – 1.33 <1	<450 200 200 200 4000 4000 1.35 <1	<450 200 150 150 – – 1.32 <1	<450 200 150 150 – – 1.62 <1	<450 200 330 330 – – 1.63 <1	<450 200 300 300 4000 7000 1.48 <1
R	<450 200 100 100 4000 4500 0.98	<450 200 100 100 4000 4500 1.10 <1	<450 200 150 150 – – 1.03 <1	<450 200 200 200 – – 1.89 <1	<450 200 150 150 4000 4500 1.70 <1	<450 200 175 175 – – 1.66 <1	<450 200 150 150 4000 4500 1.20 <1	<450 200 150 150 4000 4500 1.63 <1	<450 200 200 200 – – 1.24 <1	<450 200 150 150 – – 0.95	<450 200 150 150 4000 4000 1.44 <1	<450 200 200 200 – – 1.22 <1	<450 200 150 150 4000 4000 1.39 <1	<450 200 150 150 – – 0.90	<450 200 125 125 – – 1.56 <1	<450 200 200 200 – – 1.39 <1	<450 200 150 150 – – 1.38 <1	<450 200 150 150 4000 4000 1.37 <1	<450 200 150 150 – – 1.38 <1	<450 200 250 250 – – 1.12 <1	<450 200 200 200 – – 1.23 <1
Q	<450 200 100 – – 1.32 <1	<450 200 150 – – 0.94	<450 200 150 – – 1.64 <1	<450 200 200 200 4000 4000 1.71 <1	<450 200 150 150 – – 1.39 <1	<450 200 200 200 – – 1.65 <1	<450 200 200 200 – – 1.82 <1	<450 200 175 175 – – 1.34 <1	<450 200 175 175 – – 1.57 <1	<450 200 150 150 4000 4000 1.48 <1	<450 200 150 150 – – 1.65 <1	<450 200 150 150 – – 1.77 <1	<450 200 150 150 – – 1.35 <1	<450 200 175 175 – – 0.73	<450 200 125 125 – – 1.53 <1	<450 200 200 200 4000 4000 1.33 <1	<450 200 200 200 – – 1.38 <1	<450 200 150 150 – – 0.99	<450 200 150 150 4000 4000 1.00 <1	<450 200 150 150 – – 1.39 <1	<450 200 200 200 – – 1.04 <1

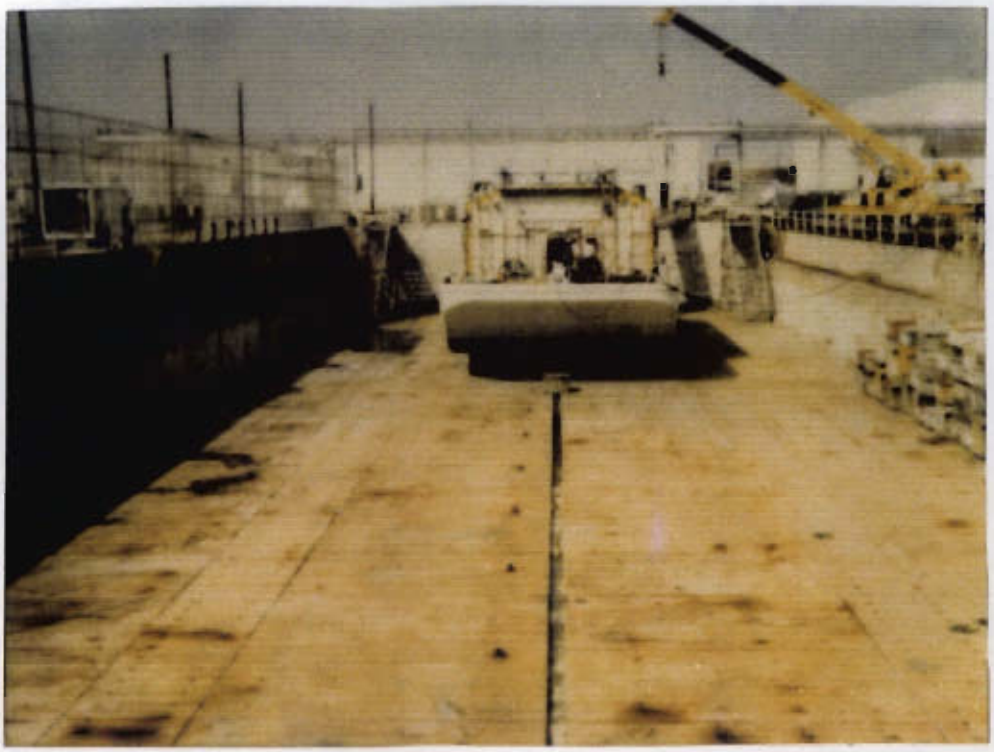


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

4. Dry Dock 4

f. Prior Photograph



North wall, viewing northeast.

4. Dry Dock 4

g. During Photograph

West end of drydock, facing east.

4. Dry Dock 4

g. During Photograph

South wall of drydock, facing east.

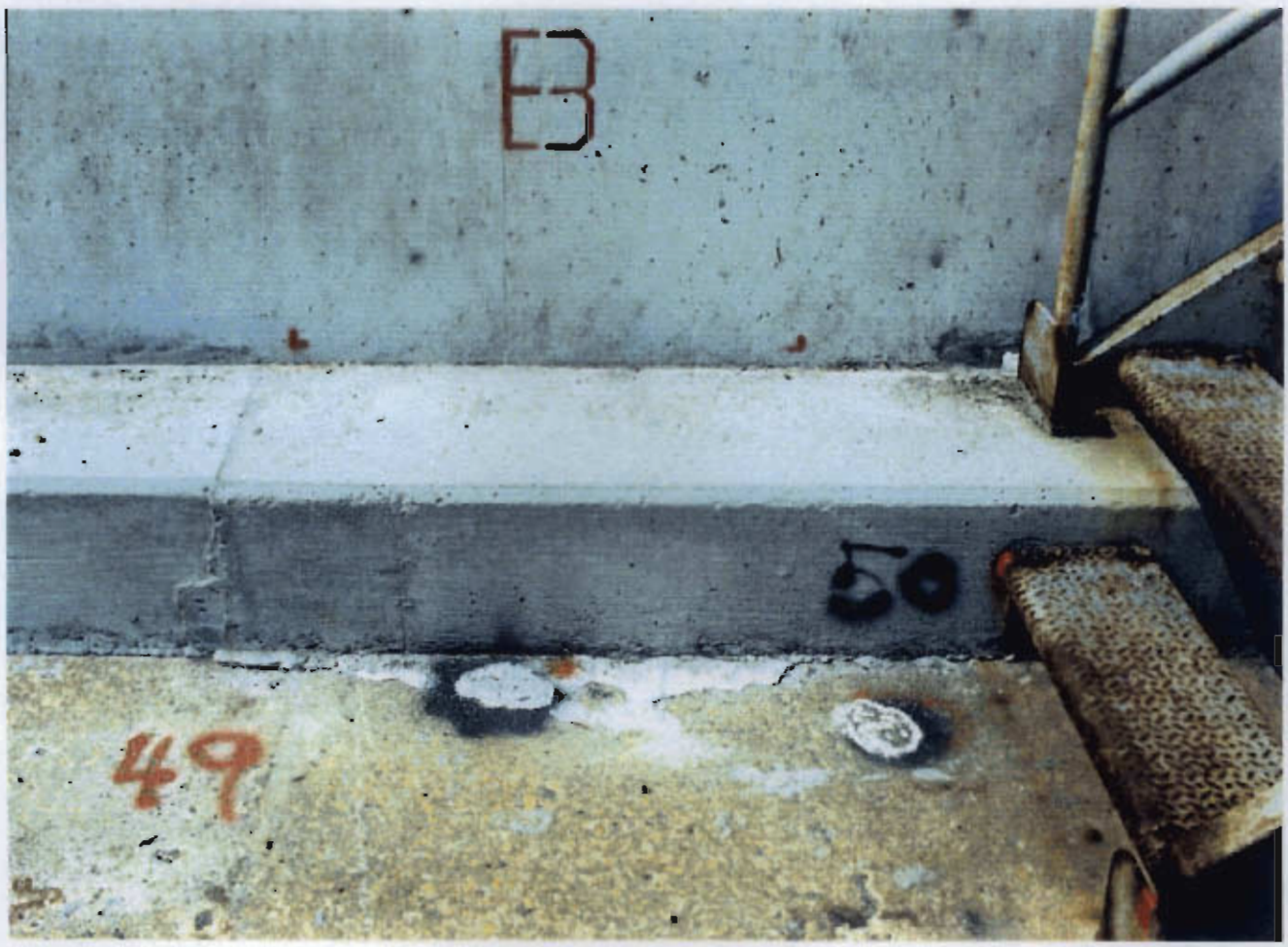
4. Dry Dock 4

h. After Photograph

West wall of drydock, viewing building 96.

4. Dry Dock 4

h. After Photograph



Northeast corner of drydock, facing north

4. Dry Dock 4

h. After Photograph

Topside of drydock, facing north

5. Dry Dock 5

a. Introduction:

Dry Dock 5 is located in grid D-7 of the Charleston Naval Shipyard map (Figure 10). Dry Dock 5 is north of Building 236, paralleling River Road, and opening to the Cooper River. Construction was completed on Dry Dock 5 in 1964.

(1) Description:

Dry Dock 5 is approximately 751' long by 140' wide by 43' deep. It is of concrete construction, and contains water collection troughs to control run off. The troughs drain into a pumping system that discharges to the Cooper River. Included are four sets of stairwells located on the north and south side walls. On the northwest wall is a 15' by 25' service elevator used for transporting personnel and oversize equipment in and out of the dry dock. The adjacent areas are included in an approximate 40' perimeter area around Dry Dock 5. Along the north and south dry dock walls were service galleries which contained the temporary support service facilities.

(2) Brief History:

(a) **Use:** Dry Dock 5 was used for the overhaul and refueling of nuclear submarines. Submarine tenders were frequently dry docked for repair availabilities. This facility was also used for overhaul and repair of non-nuclear surface craft.

(b) **Radiological History:** Radioactive material (RAM) storage areas/radiation areas were established in the dry dock and adjacent areas. Operations such as resin discharge, reactor vessel pump down, decontamination of ship's hull, connection/disconnection and use of radioactive liquid discharge piping and tanks were performed.

Designated portions of the dry dock were established as radiologically controlled areas during dry docking of submarines and tenders. Loose surface contamination levels of tens of thousands of micromicrocuries per one hundred centimeters squared have been found on ship's hulls. Spills of radioactive liquid during repair operations resulted in loose surface contamination levels of several thousand micromicrocuries per one hundred centimeters squared on the dry dock floor. All spill areas were decontaminated to less than 450 $\mu\mu Ci/20cm^2$.

(3) Survey Requirements:

(a) Dry Dock survey.
(b) Group 1 Survey.

5. Dry Dock 5

b. Discussion:

Areas of the dry dock floor, walls, adjacent areas, and caisson, which were areas with a low potential for contamination, were divided into approximately 20' by 20' grid sections. Each of these grids contained two 3' by 3' subsections which were placed in the areas of highest potential for contamination. Each 3' by 3' subsection was surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). A minimum of 50% of the 3' by 3' subsections were surveyed using the IM-253/PD (HV-2 GROSS). Additionally, a solid material sample was taken from each 20' by 20' floor grid.

The areas of the dry dock which were known storage areas for portable effluent tanks, radioactive material storage, known spill areas, or areas underneath hull connections used for transfer of radioactive liquid from ships to portable effluent tanks were divided into approximately 5' by 5' grid sections. Each of these grids were surveyed using the IM-247/PD and IM-253/PD (HV-1 PHA). A minimum of 25% of the 5' by 5' grids were surveyed using the IM-253/PD (HV-2 GROSS). Additionally, solid material samples were taken from each 5' by 5' grid.

Areas adjacent to the dry dock were categorized as ship berthing areas. These areas were divided into approximately 10' by 10' grid sections and 5' by 5' grid sections which were used for RAM storage areas. Each 10' by 10' grid contains two 3' by 3' subsections which were located in the area of highest potential for contamination. One 3' by 3' subsection of each grid was surveyed using the IM-247/PD and the other subsection of each grid using the IM-253/PD (HV-1 PHA). Additionally, solid material samples were taken from a minimum of 50% of the 10' by 10' grids and each 3' by 3' subsection that indicated greater than 450 $\mu\mu Ci/20cm^2$ using the IM-247/PD or greater than twice background using the IM-253/PD.

Individual backgrounds were used for Dry Dock 5 floor, walls, adjacent areas, and caisson. These structures consisted of metal, asphalt, and multiple pours of concrete. Due to variations in the natural radioactivity among the construction materials, a number of different background levels exist in these locations. The IM-247/PD, IM-253/PD (HV-1 PHA), and IM-253/PD (HV-2 GROSS) backgrounds used for concrete pours in the dry dock floor were 40, 200, 6,500 counts per minute and backgrounds used for concrete pours in the dry dock walls were 80, 450, 12,000 counts per minute. The floor and wall concrete background radiation levels were obtained from Building 664 and Building 81, respectively. The IM-247/PD, IM-253/PD (HV-1 PHA), and IM-253/PD (HV-2 GROSS) backgrounds of 40, 150, 6,500 counts per minute for metal structures found in the stairs, troughs, adjacent areas, dry dock floor, and elevator car were based on background radiation levels obtained from Building 1893. The IM-247/PD, IM-253/PD (HV-1 PHA), and IM-253/PD (HV-2 GROSS)

5. Dry Dock 5

backgrounds of 80, 100, 12,000 counts per minute for the elevator car wall and caisson metal structures were based on background radiation levels obtained from the Orion dredge, moored at the naval base public works dredge support area. The IM-247/PD, IM-253/PD (HV-1 PHA) and IM-253/PD (HV-2 GROSS) backgrounds of 100, 400, 12,500 counts per minute for asphalt covering on the adjacent areas were based on background radiation levels obtained from the road near Building 1648.

Dry Dock 5 was divided into a total of 4,511 grids. Each grid and subsection were identified with a unique designation.

A total of 3,829 solid material samples were taken from Dry Dock 5 floor, walls adjacent areas, and caisson. Each solid material sample was removed from the grid location indicating the highest potential for contamination. Core samples of the metal elevator car floor indicated no Co-60 was present and that the higher background radiation levels were coming from the concrete of the elevator shaft surrounding the car. Sediment samples were taken from the dry dock sump. The following typical naturally occurring radionuclides were identified during isotopic analysis of solid material samples: lead 212, lead 214.

Group 1 surveys were performed in the dry dock service galleries in accordance with localized survey instructions. Surveys using the IM-253/PD (HV-1 PHA and HV-2 GROSS) were performed in these areas.

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than $450\mu\mu Ci/20cm^2$.

Surveys performed with the IM-253/PD (HV-1 PHA) detected 1728 areas greater than or equal to twice background.

Surveys performed with the IM-253/PD (HV-2 GROSS) detected 318 areas greater than or equal to twice background.

Analysis performed with the multi-channel analyzer (MCA) on the sediment samples taken from the dry dock sump indicated that the cobalt 60 levels were less than 1 pCi/g.

Analysis performed on solid material samples with the multi-channel analyzer detected gross gamma equivalent cobalt 60 levels ranging from a low of less than 0.32 pCi/g to a high of 12.84 pCi/g.

Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated that solid material samples were less than 1 pCi/g from non-paint samples and less than 3 pCi/g for paint samples. However, 10 floor samples and five adjacent area samples with traces of Co-60 greater than the minimum

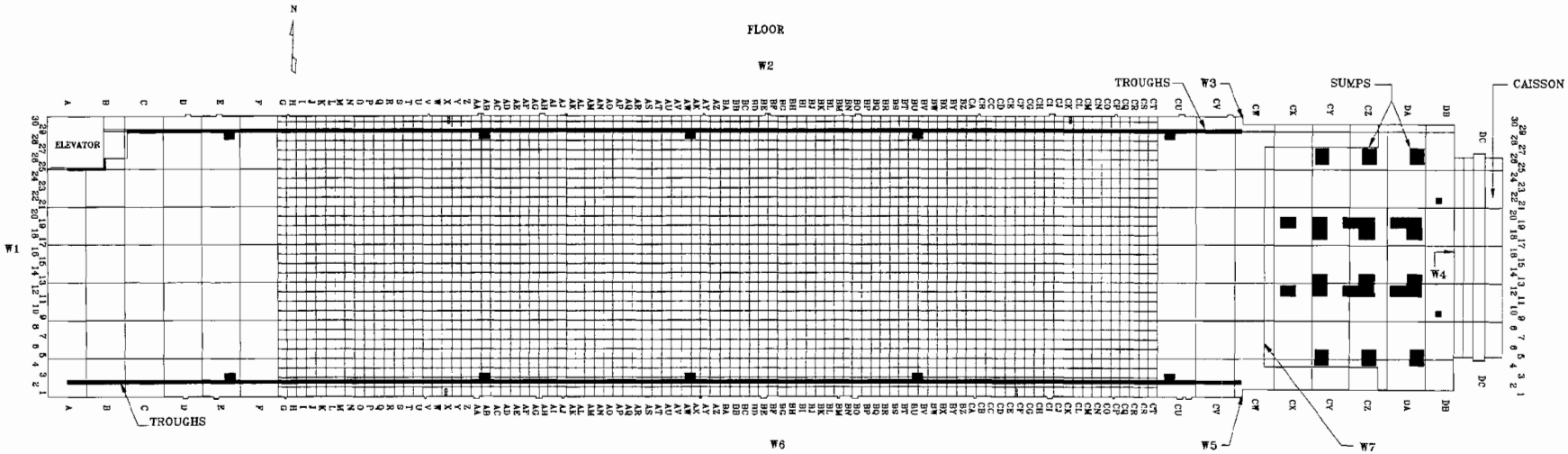
5. Dry Dock 5

detectable activity were identified. For each sample, the extent of the trace Co-60 radioactivity was identified by taking additional solid material samples in the surrounding vicinity. Due to the small effort involved, the shipyard remediated each area where Co-60 was identified. Remediation consisted of excavation of material in the identified areas to a depth of 1\2 " using scabbling equipment. Following remediation, additional solid material samples were taken in the areas and all were less than 1 pCi/g specific Co-60. No traces of Co-60 were identified.

Surveys and investigations performed in accordance with the Group 1 survey requirements did not detect any radionuclides other than those occurring due to natural radioactivity.

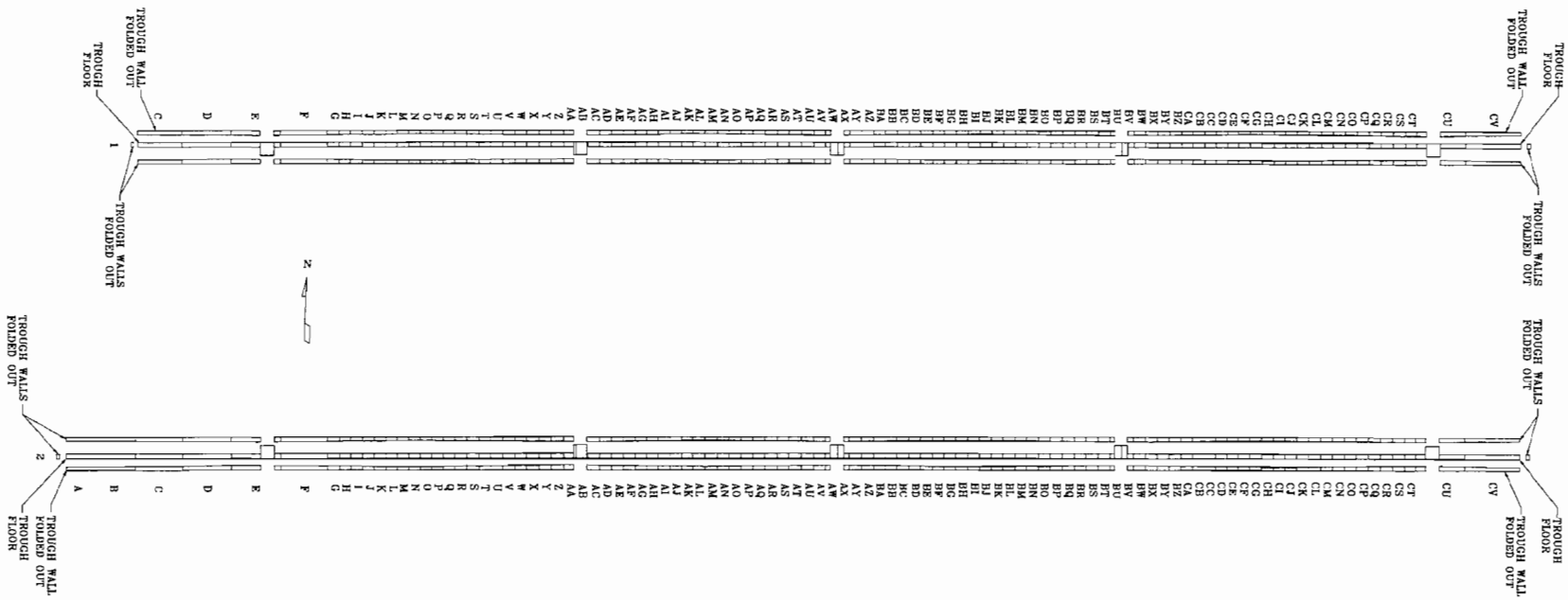
5. Dry Dock 5

d. Overall Grid Maps



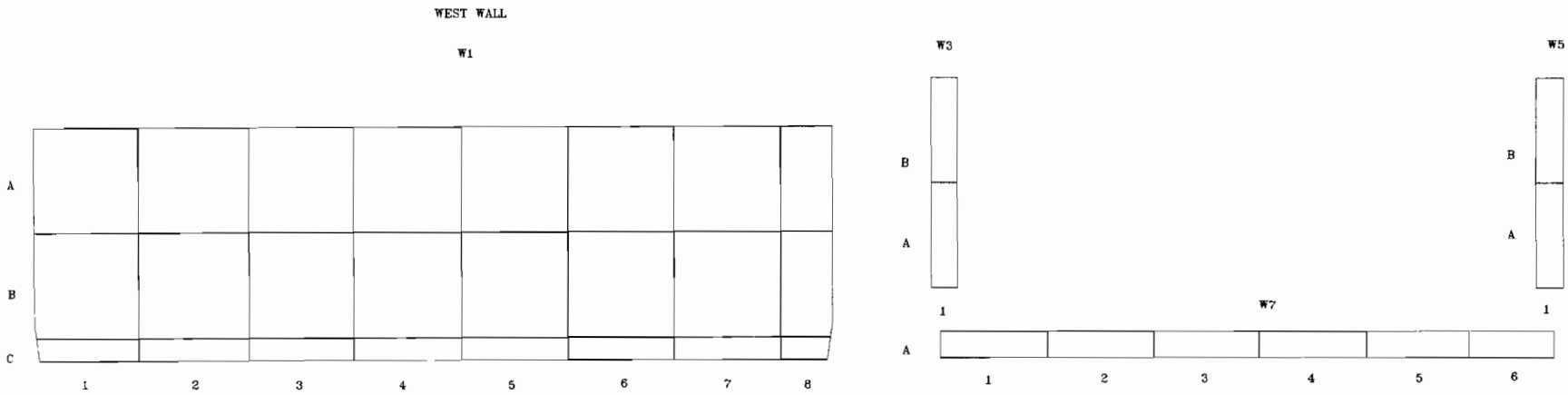
5. Dry Dock 5

d. Overall Grid Maps



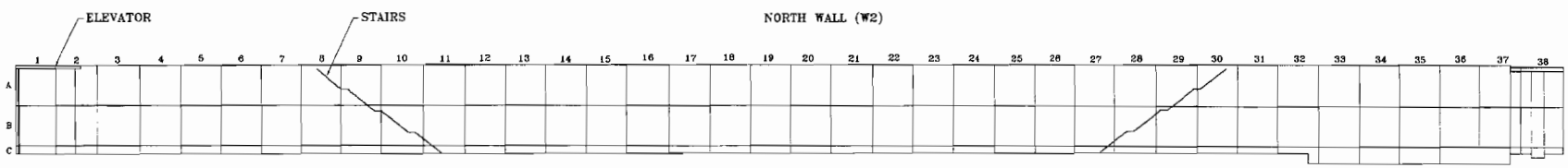
5. Dry Dock 5

d. Overall Grid Maps



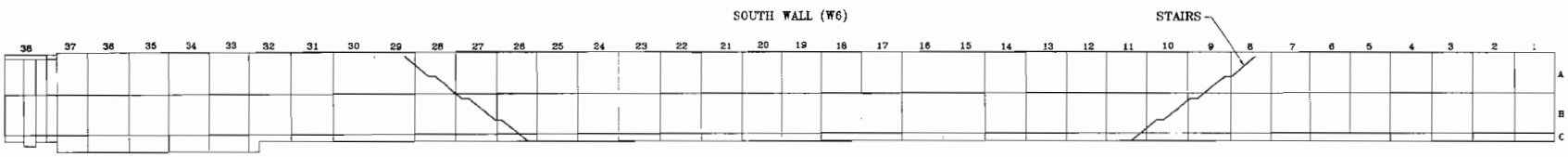
5. Dry Dock 5

d. Overall Grid Maps



5. Dry Dock 5

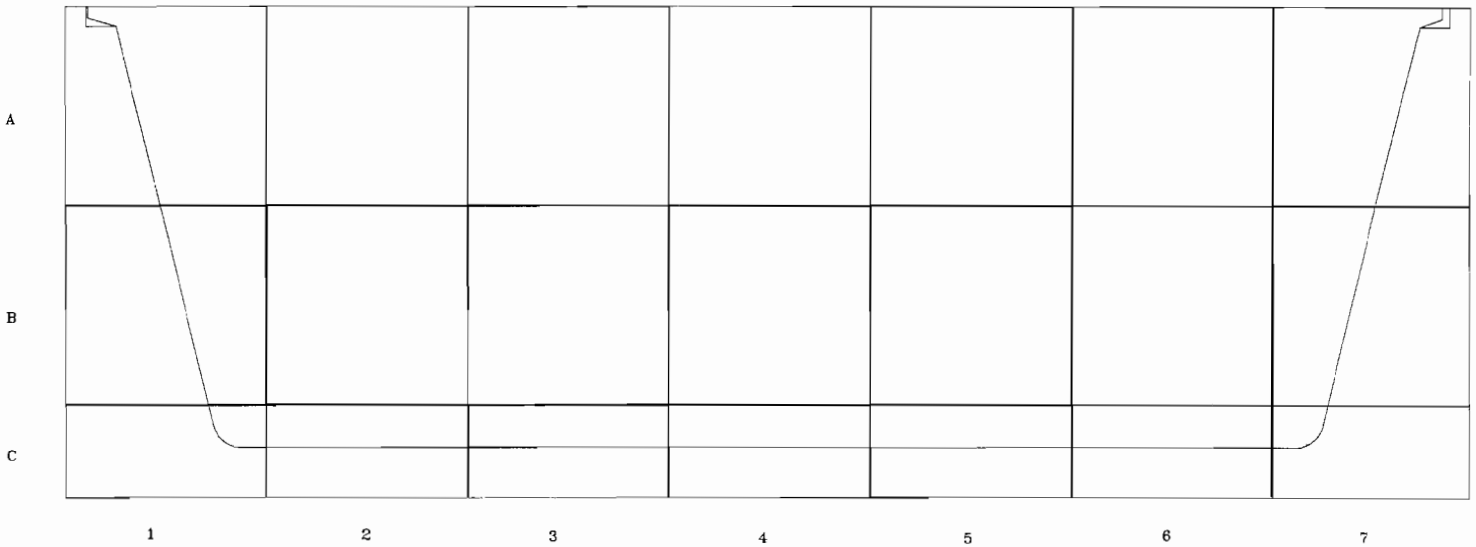
d. Overall Grid Maps



5. Dry Dock 5

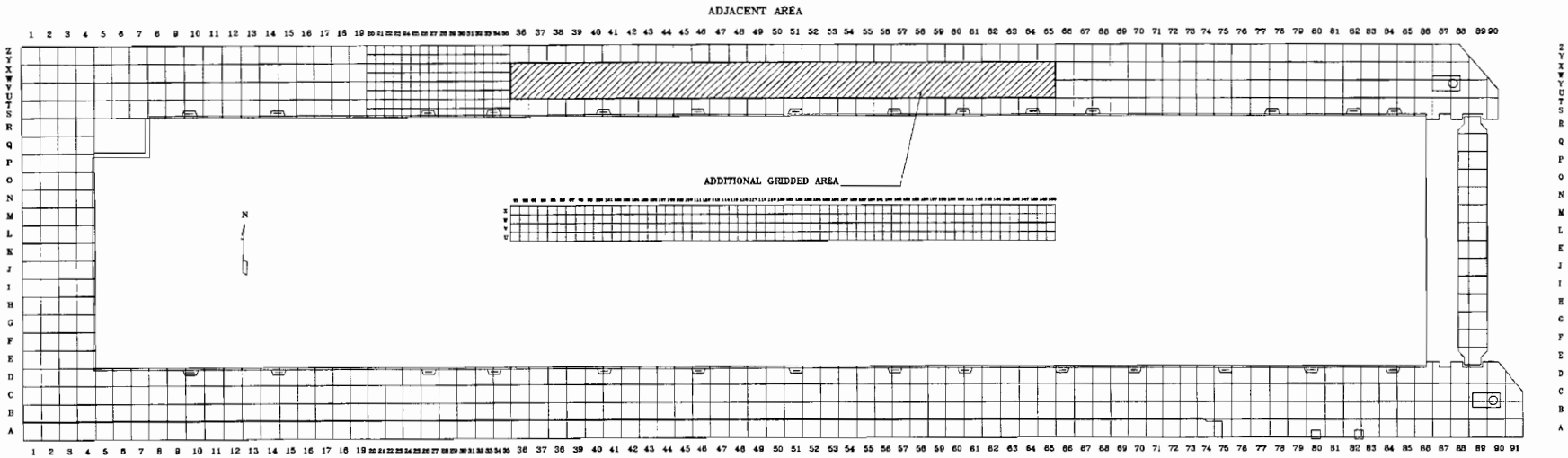
d. Overall Grid Maps

EAST WALL AND CAISSON (W4)



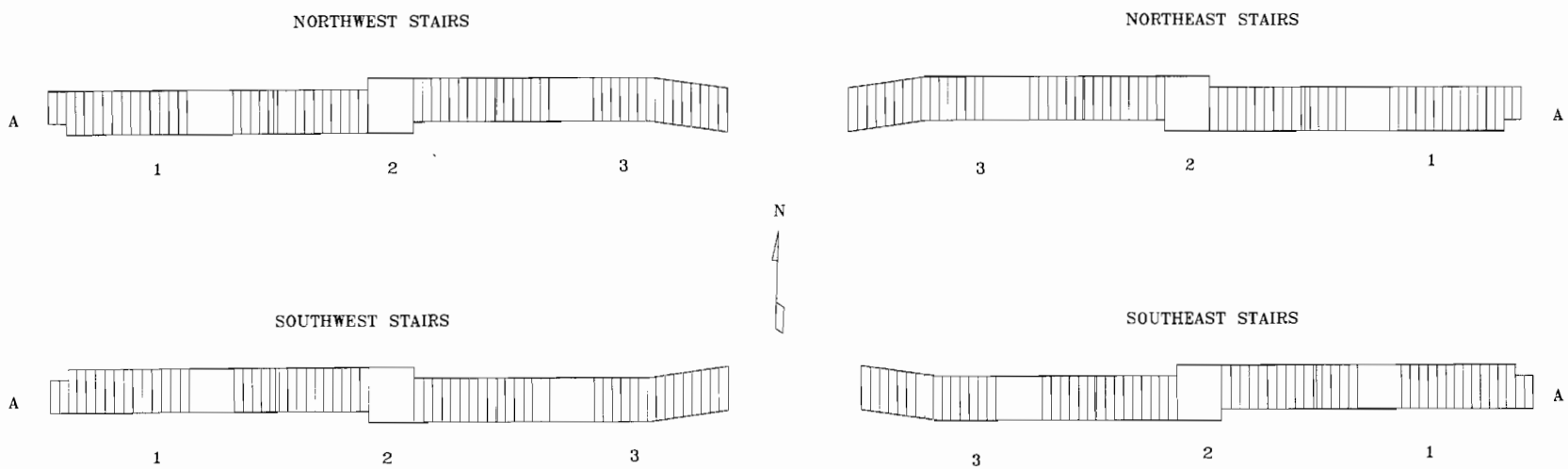
5. Dry Dock 5

d. Overall Grid Maps



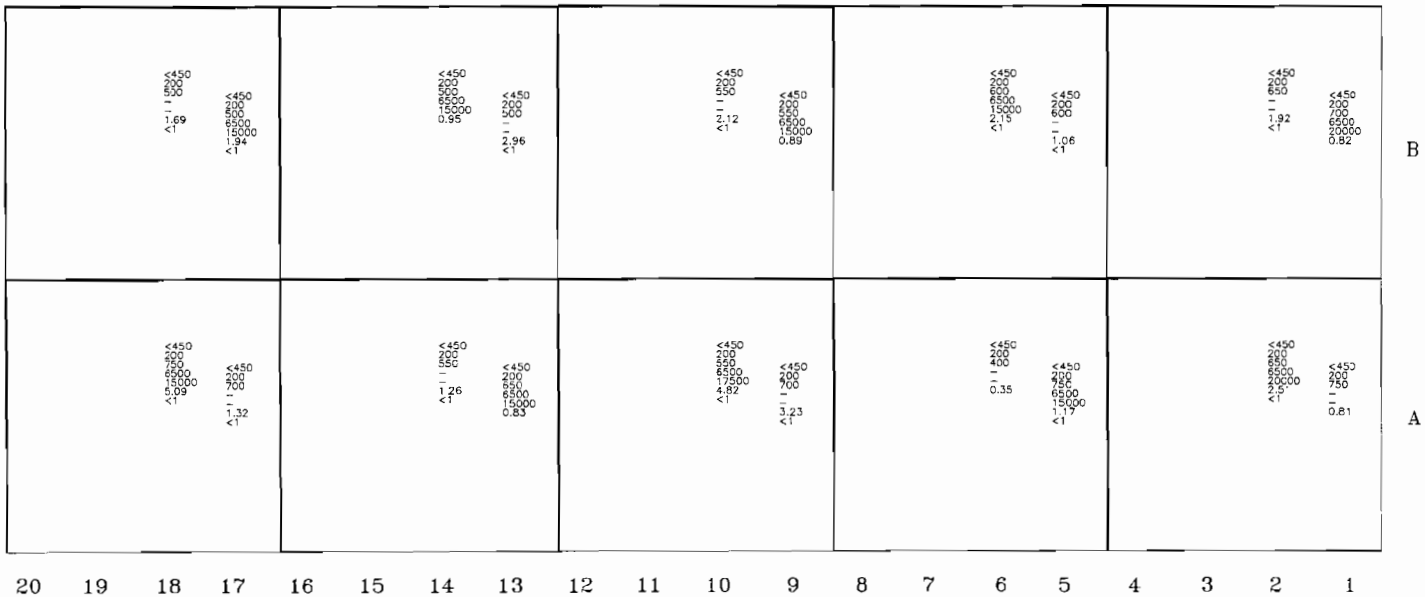
5. Dry Dock 5

d. Overall Grid Maps



5. Dry Dock 5

e. Localized Grid Maps, Floor

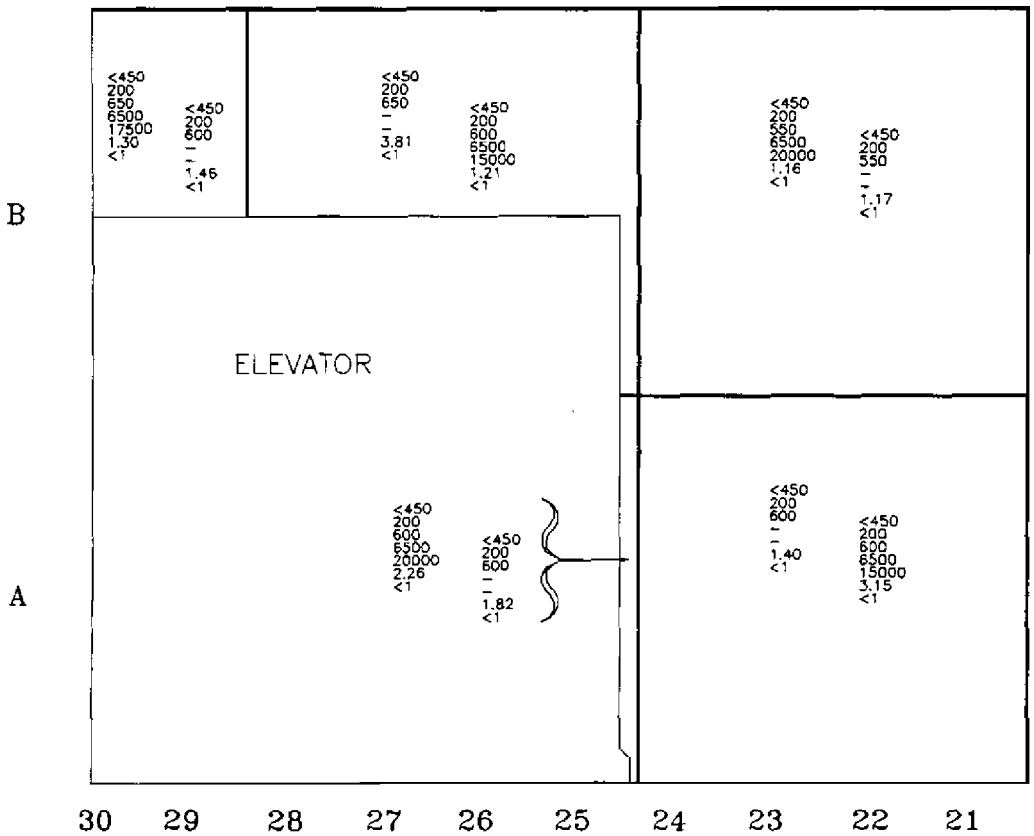


Sample Data

<450 – IM-247/PD Results (µµCi/20cm²)
200 – IM-253/PD (HV-1 PHA) (bkg.)
300 – IM-253/PD (HV-1 PHA) (cpm)
7000 – IM-253/PD (HV-2 GROSS) (bkg.)
7300 – IM-253/PD (HV-2 GROSS) (cpm)
1.82 – MCA Gross Gamma Eq. Co-60 (pCi/g)
<1 – MCA Specific Co-60 Results (pCi/g)

5. Dry Dock 5

e. Localized Grid Map, Floor

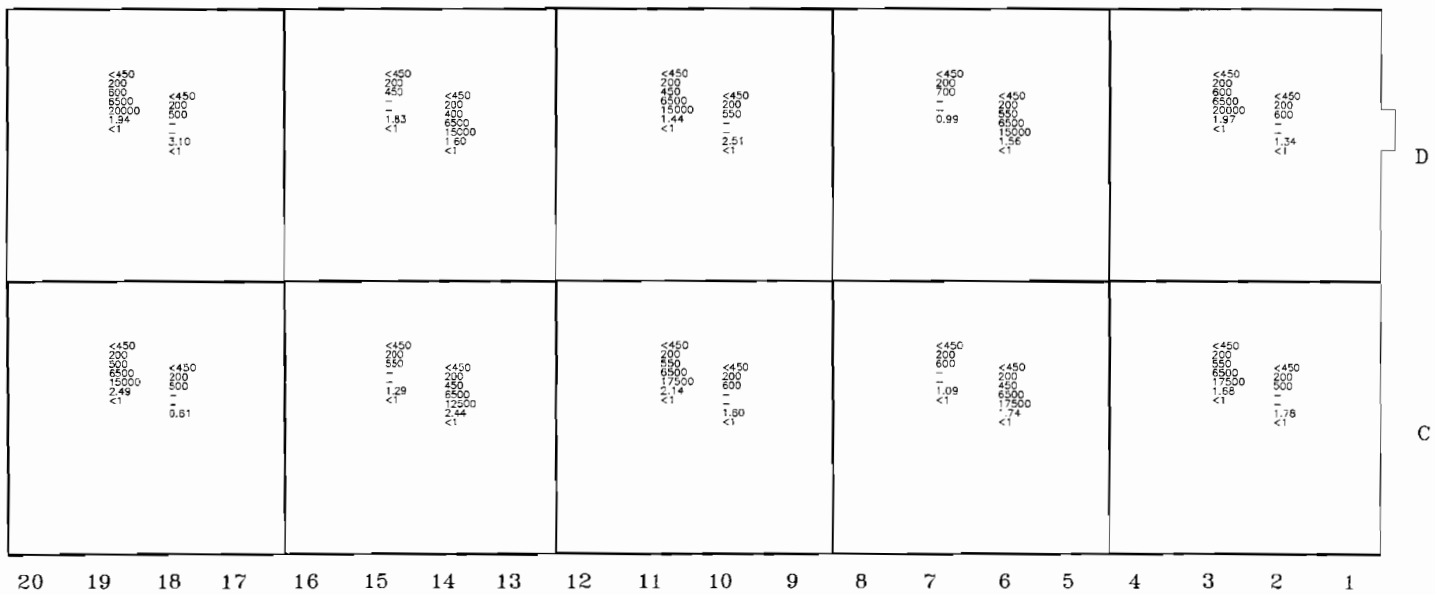


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

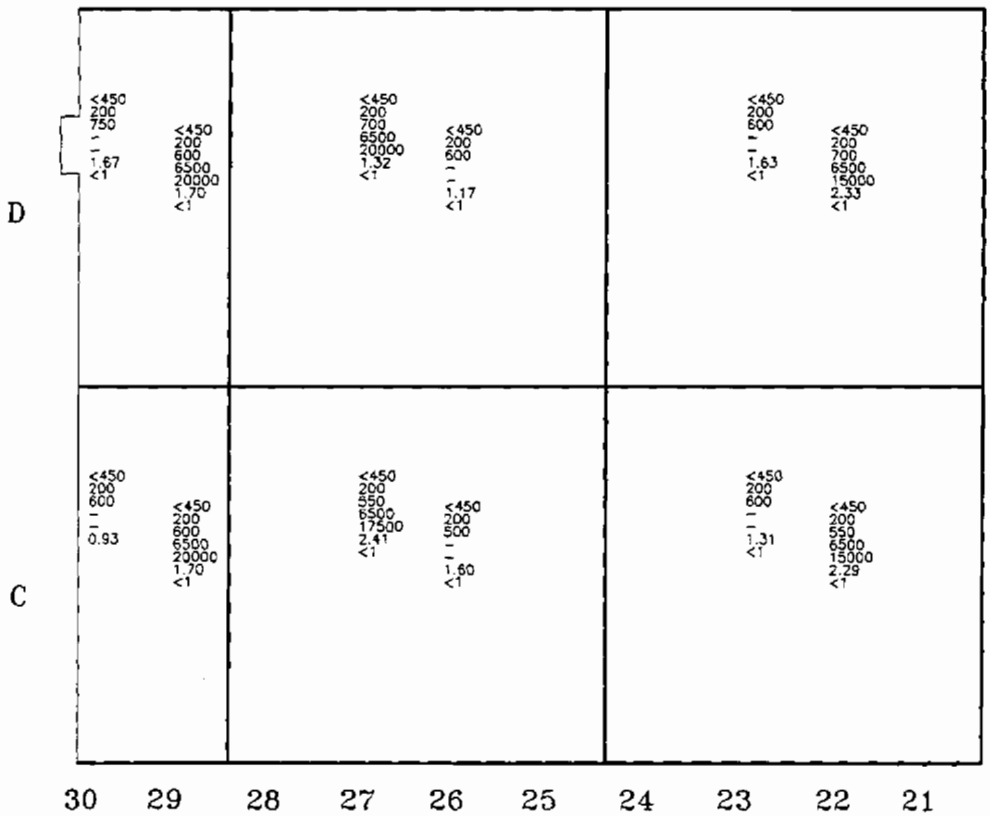


Sample Data

<450 – IM-247/PD Results [µrCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

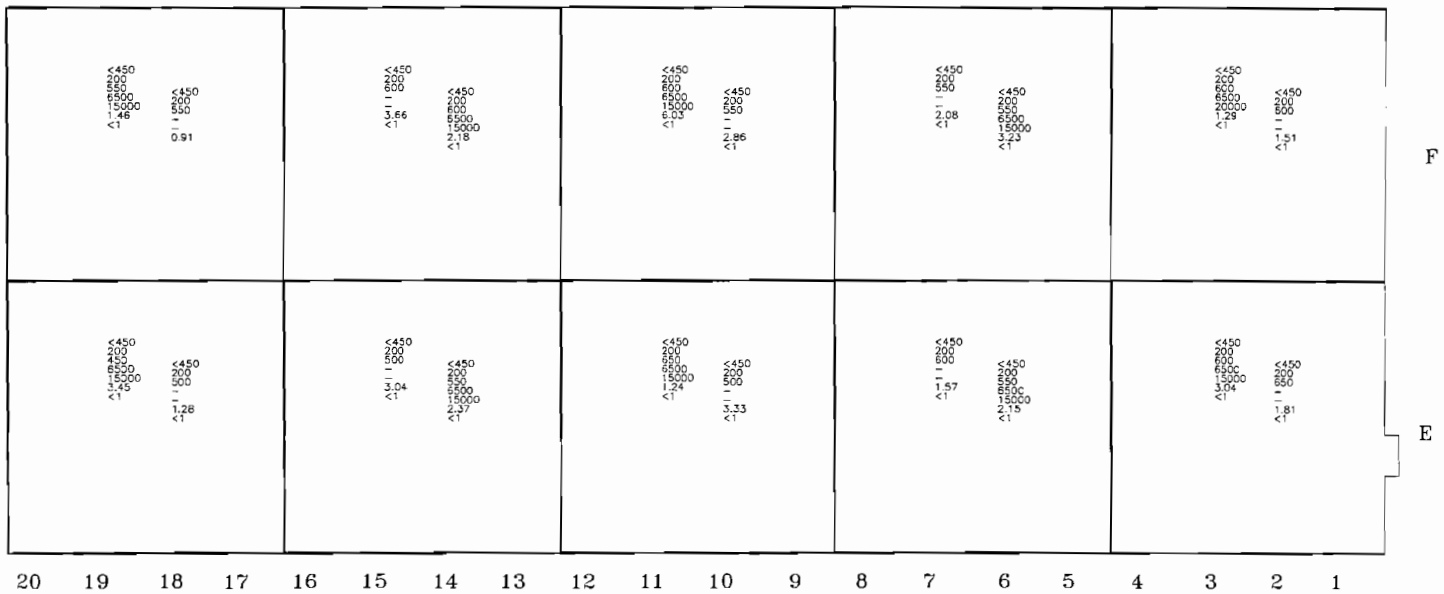


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

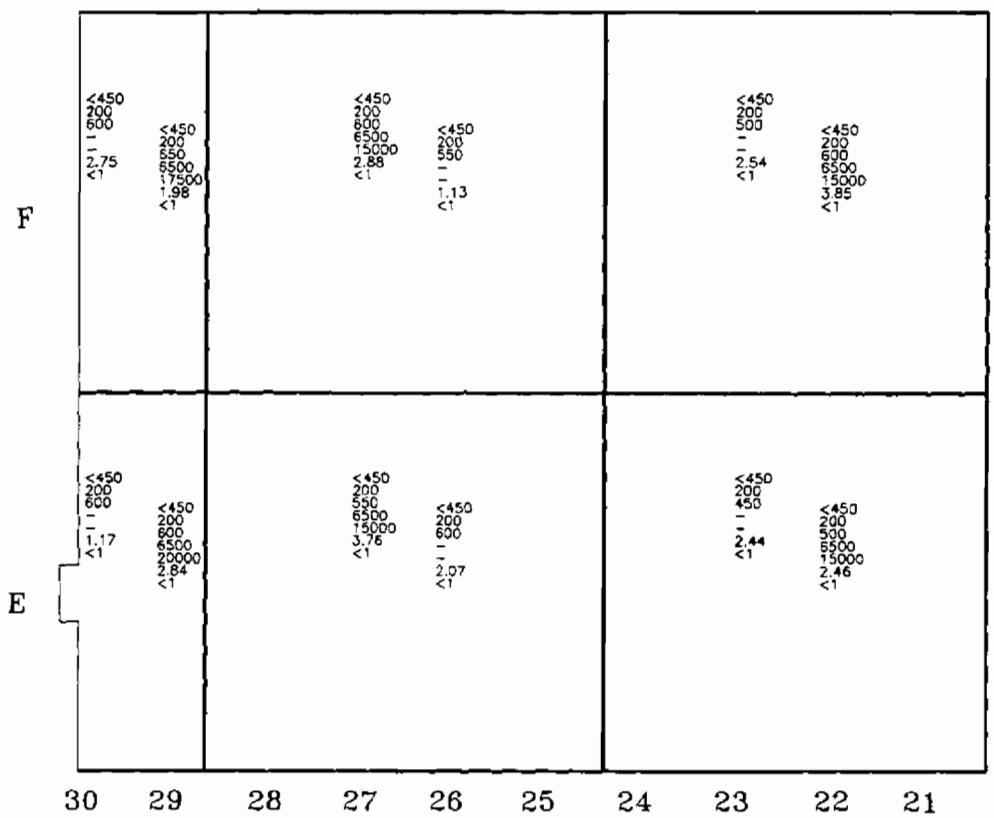


Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

<450 200 550 – – 0.72	<450 200 550 – – 1.42 <1	<450 200 500 6500 15000 1.13 <1	<450 200 550 – – 1.34 <1	<450 200 550 – – 0.66	<450 200 550 – – 2.49 <1	<450 200 550 – – <0.50	<450 200 800 6500 17500 1.68 <1	<450 200 550 – – 2.55 <1	<450 200 800 – – 5.29 <1	<450 200 600 – – 6.35 <1	<450 200 650 – – 1.83 <1	<450 200 650 – – 2.31 <1	<450 200 650 6500 15000 3.46 <1	<450 200 600 – – 3.24 <1	<450 200 575 – – 1.79 <1	<450 200 500 – – 2.30 <1	<450 200 600 6500 17500 1.52 <	<450 200 625 – – 2.35 <1	<450 200 450 – – 3.62 <1	P
<450 200 500 6500 15000 2.20 <1	<450 200 400 – – 1.34 <1	<450 200 400 – – 1.54 <1	<450 200 450 – – 1.73 <1	<450 200 450 – – 0.88	<450 200 450 6500 12500 0.92 <1	<450 200 550 – – 1.03 <1	<450 200 450 – – 1.52 <1	<450 200 450 – – 2.00 <1	<450 200 400 6500 8000 2.05 <1	<450 200 400 – – 2.28 <1	<450 200 450 6500 8500 4.50 <1	<450 200 400 – – 2.95 <1	<450 200 450 – – 4.08 <1	<450 200 400 – – 1.29 <1	<450 200 450 6500 8000 2.43 <1	<450 200 450 – – 5.05 <1	<450 200 700 – – 2.37 <1	<450 200 600 – – 1.94 <1	<450 200 700 6500 20000 1.67 <1	O
<450 200 550 6500 15000 2.23 <1	<450 200 550 – – 1.03 <1	<450 200 450 – – 3.61 <1	<450 200 525 – – 1.30 <1	<450 200 500 – – 1.23 <1	<450 200 500 – – 1.88 <1	<450 200 550 – – 2.06 <1	<450 200 500 6500 15000 1.06 <1	<450 200 550 – – 1.40 <1	<450 200 550 – – 3.43 <1	<450 200 600 – – 2.64 <1	<450 200 550 – – 4.28 <1	<450 200 650 6500 17500 3.40 <1	<450 200 625 – – 2.46 <1	<450 200 600 – – 1.94 <1	<450 200 575 – – 2.55 <1	<450 200 650 – – 2.10 <1	<450 200 700 6500 20000 3.17 <1	<450 200 600 – – 2.32 <1	<450 200 600 – – 0.96	N
<450 200 450 – – 1.76 <1	<450 200 400 – – 1.65 <1	<450 200 450 6500 12500 1.45 <1	<450 200 400 – – 0.86	<450 200 400 – – 0.99	<450 200 450 6500 12500 12.84 <1	<450 200 450 – – 1.38 <1	<450 200 500 – – 1.92 <1	<450 200 450 6500 12500 4.73 <1	<450 200 450 – – 2.37 <1	<450 200 450 6500 15000 1.64 <1	<450 200 500 – – 1.01 <1	<450 200 575 – – 1.17 <1	<450 200 625 – – 2.95 <1	<450 200 600 6500 17500 0.83	<450 200 625 – – 1.40 <1	<450 200 700 – – 1.89 <1	<450 200 650 – – 1.42 <1	<450 200 600 – – 1.23 <1	<450 200 600 6500 20000 1.06 <1	M
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<450 200 650 – – 3.15 <1	<450 200 600 – – 2.00 <1	<450 200 650 6500 15000 4.20 <1	<450 200 625 – – 2.27 <1	<450 200 575 6500 12500 3.32 <1	<450 200 625 – – 1.31 <1	<450 200 600 – – 1.94 <1	<450 200 600 – – 1.43 <1	<450 200 650 – – 2.85 <1	<450 200 675 – – 3.90 <1	<450 200 650 – – 3.53 <1	<450 200 675 6500 12500 2.67 <1	<450 200 600 – – 4.40 <1	<450 200 675 – – 5.45 <1	<450 200 750 – – 1.77 <1	<450 200 700 6500 15000 1.53 <1	<450 200 700 – – 2.90 <1	<450 200 700 – – 1.60 <1	<450 200 650 – – 3.23 <1	<450 200 750 6900 17500 3.56 <1	J
<450 200 650 6500 15000 2.86 <1	<450 200 600 – – 1.54 <1	<450 200 600 – – 1.70 <1	<450 200 600 – – 1.41 <1	<450 200 550 – – 1.51 <1	<450 200 550 – – 0.78	<450 200 550 6500 15000 1.14 <1	<450 200 600 – – 1.00 <1	<450 200 650 – – 2.93 <1	<450 200 600 6500 15000 3.54 <1	<450 200 650 – – 2.36 <1	<450 200 600 – – 3.33 <1	<450 200 600 – – 3.34 <1	<450 200 600 6500 17500 2.27 <1	<450 200 600 – – 2.95 <1	<450 200 650 – – 0.97	<450 200 600 – – 3.16 <1	<450 200 650 6500 17500 1.27 <1	<450 200 600 – – 2.00 <1	<450 200 650 – – 2.01 <1	I
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<450 200 550 – – 4.08 <1	<450 200 500 – – 0.98	<450 200 550 6500 15000 1.43 <1	<450 200 550 – – 1.16 <1	<450 200 500 – – 1.90 <1	<450 200 600 6500 15000 2.45 <1	<450 200 600 – – 4.70 <1	<450 200 600 – – 3.60 <1	<450 200 550 6500 15000 5.72 <1	<450 200 600 – – 4.14 <1	<450 200 600 – – 2.11 <1	<450 200 550 6500 15000 1.94 <1	<450 200 550 – – 1.89 <1	<450 200 600 – – 2.62 <1	<450 200 650 – – 2.73 <1	<450 200 600 6500 15000 1.55 <1	<450 200 600 – – 1.84 <1	<450 200 600 – – 1.36 <1	<450 200 550 – – 1.27 <1	<450 200 600 6500 20000 1.57 <1	G
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
P	<450 200 700 – – 2.21 <1	<450 200 650 – – 1.57 <1	<450 200 650 – – 1.72 <1	<450 200 650 6500 12500 5.31 <1	<450 200 600 – – 1.78 <1	<450 200 625 – – 2.38 <1	<450 200 600 – – 1.14 <1	<450 200 575 6500 15000 1.93 <1	<450 200 625 – – 0.93	<450 200 600 – – 1.97 <1
O	<450 200 750 – – 2.06 <1	<450 200 500 6500 12500 1.67 <1	<450 200 400 – – 1.45 <1	<450 200 450 – – 1.27 <1	<450 200 450 – – 1.74 <1	<450 200 450 6500 12500 1.71 <1	<450 200 450 – – 2.45 <1	<450 200 600 – – 2.86 <1	<450 200 450 – – 4.41 <1	<450 200 450 6500 12500 1.86 <1
N	<450 200 750 6500 17500 1.87 <1	<450 200 650 – – 1.36 <1	<450 200 600 – – 2.26 <1	<450 200 575 – – 2.29 <1	<450 200 575 – – 1.34 <1	<450 200 550 6500 15000 3.81 <1	<450 200 525 – – 3.19 <1	<450 200 550 – – 2.39 <1	<450 200 575 – – 1.43 <1	<450 200 575 6500 15000 3.06 <1
M	<450 200 750 – – 1.85 <1	<450 200 700 – – 1.31 <1	<450 200 500 – – 1.58 <1	<450 200 550 6500 17500 1.26 <1	<450 200 400 – – 1.13 <1	<450 200 450 – – 2.11 <1	<450 200 400 – – 2.04 <1	<450 200 450 6500 15000 1.50 <1	<450 200 450 – – 4.30 <1	<450 200 500 – – 1.22 <1
L	<450 200 750 – – 1.27 <1	<450 200 700 6500 20000 1.53 <1	<450 200 450 – – 1.32 <1	<450 200 400 – – 1.59 <1	<450 200 450 – – 1.56 <1	<450 200 400 – – 1.66 <1	<450 200 400 – – 2.05 <1	<450 200 400 6500 12500 1.00 <1	<450 200 500 – – 1.40 <1	<450 200 500 – – 1.11 <1
K	<450 200 625 – – 2.73 <1	<450 200 550 – – 1.77 <1	<450 200 650 6500 17500 1.83 <1	<450 200 650 – – 1.35 <1	<450 200 650 – – 1.15 <1	<450 200 600 6500 17500 1.60 <1	<450 200 650 – – 5.26 <1	<450 200 600 – – 2.10 <1	<450 200 600 6500 17500 2.20 <1	<450 200 600 – – 2.27 <1
J	<450 200 600 – – 1.38 <1	<450 200 575 6500 12500 4.39 <1	<450 200 550 – – 3.42 <1	<450 200 625 – – 2.31 <1	<450 200 600 – – 2.01 <1	<450 200 650 – – 3.93 <1	<450 200 550 – – 4.25 <1	<450 200 500 6500 12500 1.71 <1	<450 200 650 – – 2.69 <1	<450 200 625 – – 1.04 <1
I	<450 200 700 – – 0.70	<450 200 650 – – 1.09 <1	<450 200 650 – – 1.53 <1	<450 200 650 6500 15000 2.57 <1	<450 200 700 – – 1.20 <1	<450 200 650 6500 15000 1.41 <1	<450 200 700 – – 2.12 <1	<450 200 700 – – 1.73 <1	<450 200 600 6500 15000 2.17 <1	<450 200 600 – – 1.66 <1
H	<450 200 700 – – 1.15 <1	<450 200 700 – – 1.30 <1	<450 200 650 – – 1.31 <1	<450 200 675 6500 20000 1.53 <1	<450 200 700 – – 2.17 <1	<450 200 650 6500 17500 0.90	<450 200 500 – – 1.98 <1	<450 200 475 – – 1.14 <1	<450 200 475 – – 0.95	<450 200 475 – – 1.63 <1
G	<450 200 700 – – 2.81 <1	<450 200 700 6500 20000 2.00 <1	<450 200 650 – – 2.40 <1	<450 200 600 – – 4.27 <1	<450 200 600 – – 1.18 <1	<450 200 600 – – 2.24 <1	<450 200 600 – – 1.63 <1	<450 200 600 6500 17500 1.37 <1	<450 200 600 – – 3.18 <1	<450 200 650 6500 17500 2.70 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

<450 200 550 – – 1.24	<450 200 550 6500 15000 4.31 <1	<450 200 550 – – 1.40 <1	<450 200 550 6500 15000 3.21 <1	<450 200 550 – – 2.08 <1	<450 200 550 – – 0.99	<450 200 550 – – 2.18 <1	<450 200 550 – – 1.95 <1	<450 200 650 – – 1.73 <1	<450 200 650 – – 1.35 <1	<450 200 600 – – 1.20 <1	<450 200 600 6500 15000 1.10 <1	<450 200 600 6500 15000 2.45 <1	<450 200 600 – – 1.32 <1	<450 200 550 – – 2.50 <1	<450 200 550 – – 1.74 <1	<450 200 600 – – 1.30 <1	<450 200 650 6500 15500 2.08 <1	<450 200 650 – – 2.22 <1	<450 200 700 – – 1.60 <1	Z
<450 200 550 – – 0.90	<450 200 600 – – 0.99	<450 200 600 – – 3.11 <1	<450 200 600 – – 2.65 <1	<450 200 600 – – 0.87	<450 200 600 6500 15000 3.38 <1	<450 200 600 – – 2.62 <1	<450 200 600 6500 15000 1.67 <1	<450 200 650 – – 1.29 <1	<450 200 650 6500 15000 0.97	<450 200 600 6500 15000 0.78	<450 200 650 – – 0.93	<450 200 600 – – 1.13 <1	<450 200 600 – – 3.16 <1	<450 200 600 – – 1.10 <1	<450 200 600 5500 12500 1.29 <1	<450 200 600 – – 1.23 <1	<450 200 600 – – 1.24 <1	<450 200 650 6500 15000 0.72	<450 200 700 – – 1.69 <1	Y
<450 200 500 – – 0.77	<450 200 550 – – 1.12 <1	<450 200 550 6500 15000 1.30 <1	<450 200 600 – – 2.05 <1	<450 200 600 – – 2.81 <1	<450 200 600 – – 3.04 <1	<450 200 550 – – 3.02 <1	<450 200 550 6500 10000 0.74	<450 200 600 – – 1.47 <1	<450 200 600 – – 1.43 <1	<450 200 600 – – 2.07 <1	<450 200 550 – – 1.26 <1	<450 200 550 6500 12500 1.01 <1	<450 200 550 – – 1.48 <1	<450 200 600 – – 1.77 <1	<450 200 550 – – 2.09 <1	<450 200 550 – – 1.46 <1	<450 200 550 6500 15000 1.84 <1	<450 200 600 – – 2.61 <1	<450 200 700 – – 1.78 <1	X
<450 200 600 6500 15000 1.17 <1	<450 200 625 – – 1.21 <1	<450 200 600 – – 2.15 <1	<450 200 575 – – 2.06 <1	<450 200 600 – – 3.27 <1	<450 200 600 6500 15000 1.97 <1	<450 200 600 – – 1.89 <1	<450 200 600 – – 1.58 <1	<450 200 500 6500 14000 1.55 <1	<450 200 600 – – 2.18 <1	<450 200 450 6500 13000 1.50 <1	<450 200 450 – – 1.26 <1	<450 200 500 – – 2.34 <1	<450 200 500 – – 1.73 <1	<450 200 500 – – 1.43 <1	<450 200 550 6500 14000 2.25 <1	<450 200 550 – – 1.00 <1	<450 200 550 – – 1.19 <1	<450 200 600 – – 2.13 <1	<450 200 525 6500 13600 1.48 <1	W
<450 200 650 6500 12500 1.81 <1	<450 200 600 – – 1.84 <1	<450 200 650 – – 1.53 <1	<450 200 575 – – 1.47 <1	<450 200 600 – – 1.24 <1	<450 200 600 6500 12500 1.89 <1	<450 200 550 – – 2.37 <1	<450 200 550 – – 1.29 <1	<450 200 600 – – 1.39 <1	<450 200 575 6500 12500 1.39 <1	<450 200 600 – – 1.64 <1	<450 200 650 – – 1.55 <1	<450 200 500 6500 12500 1.52 <1	<450 200 550 – – 1.86 <1	<450 200 700 – – 1.68 <1	<450 200 550 – – 0.99	<450 200 575 – – 1.20 <1	<450 200 600 – – 1.42 <1	<450 200 750 – – 0.90	<450 200 700 6500 17500 1.34 <1	V
<450 200 400 – – 1.15	<450 200 400 – – 1.65	<450 200 400 – – 1.06 <1	<450 200 400 6500 15000 1.48 <1	<450 200 400 – – 1.06 <1	<450 200 350 – – 1.60 <1	<450 200 350 – – 2.28 <1	<450 200 400 6500 12500 1.65 <1	<450 200 400 – – 0.82	<450 200 400 – – 0.66	<450 200 600 – – 2.24 <1	<450 200 600 6500 15000 1.30 <1	<450 200 600 – – 1.29 <1	<450 200 600 – – 1.80 <1	<450 200 600 6500 15000 1.04 <1	<450 200 500 – – 1.37 <1	<450 200 500 – – 1.57 <1	<450 200 650 6500 17500 0.72	<450 200 700 – – 1.89 <1	<450 200 600 – – 1.06 <1	U
<450 200 500 – – 1.77 <1	<450 200 500 – – 1.69 <1	<450 200 500 6500 15000 1.30 <1	<450 200 450 – – 1.52 <1	<450 200 500 – – 2.25 <1	<450 200 500 – – 1.90 <1	<450 200 500 – – 1.42 <1	<450 200 500 6500 15000 1.32 <1	<450 200 500 – – 1.82 <1	<450 200 400 – – 1.84 <1	<450 200 600 – – 2.12 <1	<450 200 550 – – 1.73 <1	<450 200 500 6500 35000 5.19 <1	<450 200 500 – – 4.78 <1	<450 200 600 – – 5.40 <1	<450 200 550 – – 2.13 <1	<450 200 550 – – 3.15 <1	<450 200 550 6500 15000 1.63 <1	<450 200 650 – – 3.09 <1	<450 200 650 – – 4.05 <1	T
<450 200 500 6500 15000 2.64 <1	<450 200 450 – – 1.22 <1	<450 200 500 – – 1.40 <1	<450 200 500 – – 8.24 <1	<450 200 500 6500 15000 1.37 <1	<450 200 500 – – 1.31 <1	<450 200 450 – – 1.59 <1	<450 200 450 – – 3.09 <1	<450 200 500 – – 7.46 <1	<450 200 500 6500 15000 4.91 <1	<450 200 500 6500 15000 1.26 <1	<450 200 550 – – 0.86	<450 200 600 – – 1.66 <1	<450 200 600 – – 1.29 <1	<450 200 600 – – 2.70 <1	<450 200 550 5500 15000 1.37 <1	<450 200 550 – – 1.07 <1	<450 200 550 – – 1.16 <1	<450 200 650 – – 1.45 <1	<450 200 650 6500 20000 1.60 <1	S
<450 200 550 6500 15000 1.62 <1	<450 200 550 – – 1.50 <1	<450 200 550 – – <0.47	<450 200 550 – – 2.06 <1	<450 200 500 – – 1.40 <1	<450 200 450 – – 1.07 <1	<450 200 500 – – 0.79 <1	<450 200 550 6500 15000 1.12 <1	<450 200 550 – – 5.94 <1	<450 200 550 – – 5.03 <1	<450 200 600 6500 17500 1.08 <1	<450 200 600 – – 1.34 <1	<450 200 600 – – 1.16 <1	<450 200 500 – – 4.55 <1	<450 200 600 – – 2.66 <1	<450 200 500 – – 2.00 <1	<450 200 500 – – 1.52 <1	<450 200 500 6500 17500 0.86	<450 200 800 – – 1.75 <1	<450 200 800 – – 1.28 <1	R
<450 200 600 – – 2.60 <1	<450 200 600 – – 2.99 <1	<450 200 575 6500 15000 1.41 <1	<450 200 550 – – 0.95	<450 200 425 – – 0.93	<450 200 525 6500 15000 0.97	<450 200 550 – – 1.36 <1	<450 200 600 – – 2.88 <1	<450 200 550 6500 15000 5.76 <1	<450 200 575 – – 4.81 <1	<450 200 600 – – 1.96 <1	<450 200 625 – – 1.15 <1	<450 200 600 – – 4.67 <1	<450 200 650 6500 17500 1.92 <1	<450 200 600 – – 4.13 <1	<450 200 500 – – 1.35 <1	<450 200 675 6500 17500 2.58 <1	<450 200 700 – – 3.56 <1	<450 200 700 6500 17500 2.19 <1	<450 200 800 – – 2.36 <1	Q
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
Z	<450 200 500 – – 1.77 <1	<450 200 500 – – 1.32 <1	<450 200 500 – – 1.35 <1	<450 200 500 6500 15000 1.42 <1	<450 200 500 – – 1.59 <1	<450 200 500 6500 15000 1.31 <1	<450 200 400 – – 2.52 <1	<450 200 400 6500 15000 1.20 <1	<450 200 400 – – 1.53 <1	<450 200 600 – – 2.76 <1
Y	<450 200 600 6500 15000 3.12 <1	<450 200 550 – – 2.08 <1	<450 200 450 – – 1.94 <1	<450 200 450 – – 1.40 <1	<450 200 400 – – 1.75 <1	<450 200 400 – – 1.19 <1	<450 200 400 – – 1.31 <1	<450 200 400 – – 1.46 <1	<450 200 400 – – 1.41 <1	<450 200 550 6500 15000 1.65 <1
X	<450 200 700 – – 1.40 <1	<450 200 750 – – 1.27 <1	<450 200 650 – – 1.90 <1	<450 200 600 6500 15000 1.89 <1	<450 200 650 – – 1.63 <1	<450 200 600 – – 1.16 <1	<450 200 625 – – 1.09 <1	<450 200 675 6500 15000 1.49 <1	<450 200 550 – – 2.53 <1	<450 200 600 – – 0.91
W	<450 200 550 – – 1.60 <1	<450 200 550 6500 15000 1.58 <1	<450 200 700 – – 1.36 <1	<450 200 600 – – 2.06 <1	<450 200 650 – – 1.59 <1	<450 200 450 6500 15000 2.76 <1	<450 200 550 – – 1.42 <1	<450 200 500 – – 1.32 <1	<450 200 550 – – 2.02 <1	<450 200 550 6500 15000 0.94
V	<450 200 650 – – 1.78 <1	<450 200 650 – – 1.15 <1	<450 200 650 – – 0.93	<450 200 650 6500 12500 1.36 <1	<450 200 625 – – 0.82	<450 200 625 – – 1.21 <1	<450 200 625 6500 15000 1.72 <1	<450 200 600 – – 1.42 <1	<450 200 600 – – 1.33 <1	<450 200 650 – – 1.63 <1
U	<450 200 500 – – 2.27 <1	<450 200 600 6500 19000 1.22 <1	<450 200 600 – – 1.22 <1	<450 200 600 – – 1.19 <1	<450 200 600 6500 15000 1.19 <1	<450 200 600 – – 1.14 <1	<450 200 600 – – 1.49 <1	<450 200 600 – – 1.93 <1	<450 200 600 6500 15000 1.36 <1	<450 200 600 – – 1.77 <1
T	<450 200 400 – – 2.05 <1	<450 200 400 – – 1.60 <1	<450 200 400 6500 13000 1.64 <1	<450 200 400 – – 1.45 <1	<450 200 400 – – 1.38 <1	<450 200 500 – – 2.25 <1	<450 200 400 – – 2.40 <1	<450 200 500 – – 1.41 <1	<450 200 500 – – 0.95	<450 200 400 6500 12000 1.65 <1
S	<450 200 500 – – 1.10 <1	<450 200 500 6500 12000 1.06 <1	<450 200 500 – – 1.23 <1	<450 200 500 – – 1.22 <1	<450 200 450 6500 12500 1.17 <1	<450 200 650 – – 1.15 <1	<450 200 600 – – 0.91	<450 200 500 6500 15000 1.05 <1	<450 200 550 – – 1.11 <1	<450 200 600 – – 1.23 <1
R	<450 200 700 6500 17500 1.89 <1	<450 200 650 – – 4.07 <1	<450 200 700 – – 2.61 <1	<450 200 650 – – 1.62 <1	<450 200 700 – – 1.83 <1	<450 200 650 6500 12500 1.31 <1	<450 200 575 – – 1.58 <1	<450 200 600 – – 1.56 <1	<450 200 600 – – 1.85 <1	<450 200 600 6500 15000 2.26 <1
Q	<450 200 450 – – 2.33 <1	<450 200 450 – – 1.56 <1	<450 200 450 – – 1.14 <1	<450 200 450 6500 15000 1.52 <1	<450 200 450 – – 2.06 <1	<450 200 400 – – 0.95	<450 200 450 – – 1.10 <1	<450 200 400 6500 12500 1.37 <1	<450 200 400 – – 1.79 <1	<450 200 400 – – 2.10 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
<450 200 475 – – 1.67 <1	<450 200 500 – – 1.52 <1	<450 200 250 6500 12500 0.80	<450 200 450 – – 1.05 <1	<450 200 525 – – 0.98	<450 200 500 – – 0.78	<450 200 500 – – 1.15 <1	<450 200 450 6500 9500 1.18 <1	<450 200 300 – – 0.78	<450 200 150 – – 1.00 <1	<450 200 125 6500 4500 1.00 <1	<450 200 150 – – 1.31 <1	<450 200 125 – – 1.31 <1	<450 200 150 – – 1.22 <1	<450 200 150 6500 4750 0.69	<450 200 125 – – 1.33 <1	<450 200 175 – – 1.14 <1	<450 200 150 – – 1.26 <1	<450 200 200 – – 1.12 <1	<450 200 150 6500 4000 1.10 <1	AJ
<450 200 500 – – 1.04 <1	<450 200 250 6500 12500 0.75	<450 200 500 – – 0.73	<450 200 550 – – 1.00 <1	<450 200 450 6500 10000 1.46 <1	<450 200 450 – – 0.97	<450 200 500 – – 4.67 <1	<450 200 450 – – 2.98 <1	<450 200 450 – – 1.24 <1	<450 200 200 6500 5000 1.00 <1	<450 200 200 – – 0.67	<450 200 150 – – 2.34 <1	<450 200 150 6500 5750 2.36 <1	<450 200 150 – – 1.13 <1	<450 200 150 – – 1.95 <1	<450 200 150 – – 1.63 <1	<450 200 150 6500 5000 0.85	<450 200 250 – – 0.53	<450 200 250 – – 0.69	<450 200 200 – – 0.73	AI
<450 200 475 – – 0.90	<450 200 500 – – 1.27 <1	<450 200 550 6500 12500 3.10 <1	<450 200 475 – – 1.67 <1	<450 200 450 – – 2.11 <1	<450 200 500 – – 2.53 <1	<450 200 625 – – 3.94 <1	<450 200 525 6500 12500 3.33 <1	<450 200 350 – – 3.19 <1	<450 200 125 – – 0.85	<450 200 125 – – 1.00 <1	<450 200 125 – – 1.30 <1	<450 200 150 6500 4000 0.83	<450 200 150 – – 1.24 <1	<450 200 125 6500 4500 0.76	<450 200 125 – – 1.00 <1	<450 200 125 6500 4500 0.84	<450 200 150 – – 0.99	<450 200 200 – – 0.62	<450 200 150 – – 1.28 <1	AH
<450 200 600 6500 12500 2.25 <1	<450 200 600 – – 1.45 <1	<450 200 600 – – 1.55 <1	<450 200 450 – – 1.30 <1	<450 200 475 – – 1.09 <1	<450 200 550 6500 12500 1.59 <1	<450 200 450 – – 1.00 <1	<450 200 450 – – 1.20 <1	<450 200 450 – – 1.64 <1	<450 200 450 6500 12000 1.72 <1	<450 200 450 6500 8000 1.35 <1	<450 200 550 – – 1.85 <1	<450 200 550 – – 1.24 <1	<450 200 550 – – 1.03 <1	<450 200 450 – – 1.10 <1	<450 200 575 – – 1.35 <1	<450 200 500 – – 0.88	<450 200 625 – – 0.90	<450 200 550 – – 1.48 <1	<450 200 550 6500 12000 1.16 <1	AG
<450 200 500 – – 1.47 <1	<450 200 500 – – 2.01 <1	<450 200 425 6500 10000 1.32 <1	<450 200 475 – – 2.72 <1	<450 200 450 – – 1.34 <1	<450 200 475 – – 1.84 <1	<450 200 475 – – 2.33 <1	<450 200 475 6500 17500 1.08 <1	<450 200 450 – – 2.24 <1	<450 200 500 – – 1.95 <1	<450 200 450 – – 1.80 <1	<450 200 450 – – 1.38 <1	<450 200 475 – – 1.14 <1	<450 200 500 6500 12500 1.46 <1	<450 200 500 – – 1.79 <1	<450 200 500 – – 1.07 <1	<450 200 450 – – 1.80 <1	<450 200 500 6500 15000 1.26 <1	<450 200 500 – – 1.28 <1	<450 200 650 – – 1.56 <1	AF
<450 200 550 6500 10000 1.65 <1	<450 200 500 – – 1.65 <1	<450 200 450 – – 2.13 <1	<450 200 450 – – 1.65 <1	<450 200 500 – – 1.63 <1	<450 200 500 6500 12500 2.17 <1	<450 200 450 – – 1.98 <1	<450 200 500 – – 1.97 <1	<450 200 450 – – 1.68 <1	<450 200 550 6500 10000 1.88 <1	<450 200 500 6500 12500 1.21 <1	<450 200 500 – – 1.05 <1	<450 200 450 – – 1.40 <1	<450 200 500 – – 1.54 <1	<450 200 550 – – 1.99 <1	<450 200 550 6500 12500 1.62 <1	<450 200 550 – – 2.85 <1	<450 200 550 – – 1.39 <1	<450 200 600 – – 1.19 <1	<450 200 650 6500 15000 2.13 <1	AE
<450 200 500 – – 1.19 <1	<450 200 500 – – 1.54 <1	<450 200 475 6500 12500 1.30 <1	<450 200 475 – – 1.72 <1	<450 200 450 – – 0.99	<450 200 550 6500 17500 2.86 <1	<450 200 550 – – 2.64 <1	<450 200 600 6500 12500 2.28 <1	<450 200 500 – – 1.84 <1	<450 200 550 – – 2.09 <1	<450 200 500 6500 11500 1.96 <1	<450 200 500 – – 1.33 <1	<450 200 500 – – 2.22 <1	<450 200 450 – – 1.89 <1	<450 200 550 6500 12500 1.59 <1	<450 200 600 – – 1.54 <1	<450 200 600 – – 1.39 <1	<450 200 600 – – 1.15 <1	<450 200 500 – – 1.83 <1	<450 200 650 6500 15000 1.14 <1	AD
<450 200 450 6500 15000 3.18 <1	<450 200 475 – – 2.91 <1	<450 200 450 – – 1.43 <1	<450 200 450 – – 1.30 <1	<450 200 550 – – 1.41 <1	<450 200 550 – – 1.98 <1	<450 200 550 – – 1.42 <1	<450 200 525 – – 0.80	<450 200 550 – – 1.94 <1	<450 200 600 6500 15000 1.24 <1	<450 200 550 – – 2.60 <1	<450 200 600 – – 1.80 <1	<450 200 600 6500 15000 2.58 <1	<450 200 600 – – 1.65 <1	<450 200 600 – – 1.65 <1	<450 200 600 – – 0.80	<450 200 600 – – 0.98	<450 200 600 6500 15000 0.79	<450 200 600 – – 2.14 <1	<450 200 700 – – 1.61 <1	AC
<450 200 550 – – 1.16 <1	<450 200 500 – – 1.85 <1	<450 200 450 – – 1.33 <1	<450 200 500 – – 1.08 <1	<450 200 450 – – 1.73 <1	<450 200 550 – – 1.24 <1	<450 200 550 6500 15000 0.92	<450 200 600 – – 1.54 <1	<450 200 550 – – 1.29 <1	<450 200 500 6500 15000 1.92 <1	<450 200 600 – – 2.24 <1	<450 200 600 – – 2.65 <1	<450 200 600 6500 15000 5.37 <1	<450 200 500 – – 4.32 <1	<450 200 600 – – 0.94	<450 200 450 – – 1.80 <1	<450 200 500 – – 2.15 <1	<450 200 600 6500 15000 1.62 <1	<450 200 500 – – 1.83 <1	<450 200 800 – – 1.79 <1	AB
<450 200 500 6500 15000 1.51 <1	<450 200 500 – – 1.08 <1	<450 200 455 6500 12500 4.14 <1	<450 200 700 – – 2.21 <1	<450 200 575 6500 12500 2.07 <1	<450 200 600 – – 1.53 <1	<450 200 550 – – 2.61 <1	<450 200 575 – – 1.21 <1	<450 200 800 – – 1.48 <1	<450 200 800 – – 2.04 <1	<450 200 600 6500 15000 2.05 <1	<450 200 625 – – 4.43 <1	<450 200 600 – – 6.77 <1	<450 200 800 – – 3.50 <1	<450 200 650 – – 2.03 <1	<450 200 650 6500 15000 1.57 <1	<450 200 800 – – 1.77 <1	<450 200 825 – – 2.26 <1	<450 200 700 – – 0.54	<450 200 750 6500 15000 3.31 <1	AA

Sample Data

<450 – IM-247/PD Results [µCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7330 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
AJ	<450 200 475 – – 1.82 <1	<450 200 500 6500 12500 1.55 <1	<450 200 550 – – 0.45	<450 200 550 6500 12500 0.52	<450 200 600 – – 1.06 <1	<450 200 650 – – 1.35 <1	<450 200 600 – – 1.53 <1	<450 200 550 – – 1.47 <1	<450 200 500 – – 1.02 <1	<450 200 550 – – 1.21 <1
AI	<450 200 500 – – 0.75	<450 200 550 – – 1.09 <1	<450 200 450 – – 1.81 <1	<450 200 500 – – 1.09 <1	<450 200 500 – – 0.53	<450 200 475 6500 12500 <0.45	<450 200 500 – – 0.67	<450 200 550 6500 15000 0.86	<450 200 500 – – 1.10 <1	<450 200 550 6500 12500 0.88
AH	<450 200 600 – – 2.23 <1	<450 200 625 – – 1.61 <1	<450 200 500 – – 1.67 <1	<450 200 475 – – 3.00 <1	<450 200 450 – – 1.41 <1	<450 200 500 6500 10000 1.20 <1	<450 200 550 – – 1.74 <1	<450 200 550 6500 15000 1.82 <1	<450 200 500 – – 2.31 <1	<450 200 550 – – 1.46 <1
AG	<450 200 700 – – 1.79 <1	<450 200 650 6500 17500 1.37 <1	<450 200 600 – – 1.75 <1	<450 200 575 6500 17500 1.24 <1	<450 200 550 – – 1.32 <1	<450 200 575 – – 1.11 <1	<450 200 525 – – 1.08 <1	<450 200 575 – – 1.28 <1	<450 200 600 – – 2.26 <1	<450 200 575 6500 15000 1.51 <1
AF	<450 200 650 – – 2.15 <1	<450 200 650 – – 2.24 <1	<450 200 650 – – 1.63 <1	<450 200 575 6500 12500 1.58 <1	<450 200 475 – – 2.08 <1	<450 200 525 – – 2.09 <1	<450 200 550 – – 1.79 <1	<450 200 550 6500 12500 2.50 <1	<450 200 450 – – 1.09 <1	<450 200 450 – – 1.80 <1
AE	<450 200 600 – – 2.18 <1	<450 200 600 6500 17500 2.53 <1	<450 200 600 – – 1.35 <1	<450 200 600 – – 1.39 <1	<450 200 550 – – 0.59	<450 200 550 6500 12500 1.11 <1	<450 200 575 – – 0.48	<450 200 550 – – 1.27 <1	<450 200 550 – – 0.95	<450 200 500 6500 12500 1.43 <1
AD	<450 200 600 – – 4.02 <1	<450 200 550 – – 3.07 <1	<450 200 550 6500 15000 1.90 <1	<450 200 500 – – 1.07 <1	<450 200 475 6500 15000 1.01 <1	<450 200 450 – – 1.62 <1	<450 200 500 – – 1.60 <1	<450 200 500 6500 15000 1.28 <1	<450 200 500 – – 1.60 <1	<450 200 550 – – 1.38 <1
AC	<450 200 650 – – 2.59 <1	<450 200 650 6500 17500 2.21 <1	<450 200 650 – – 2.16 <1	<450 200 600 – – 2.99 <1	<450 200 600 – – 1.72 <1	<450 200 450 – – 1.52 <1	<450 200 475 – – 1.46 <1	<450 200 475 – – 1.88 <1	<450 200 475 – – 3.33 <1	<450 200 425 6500 15000 2.02 <1
AB	<450 200 600 – – 1.69 <1	<450 200 500 – – 1.27 <1	<450 200 650 – – 0.78	<450 200 650 6500 17500 1.30 <1	<450 200 600 – – 2.12 <1	<450 200 600 6500 17500 1.60 <1	<450 200 600 – – 1.36 <1	<450 200 550 6500 15000 1.46 <1	<450 200 550 – – 1.47 <1	<450 200 550 – – 1.55 <1
AA	<450 200 700 – – 0.85	<450 200 650 6500 20000 0.74	<450 200 575 – – 0.91	<450 200 575 – – 3.18 <1	<450 200 500 – – 1.06 <1	<450 200 525 – – 0.61	<450 200 575 – – 1.86 <1	<450 200 550 – – 1.94 <1	<450 200 550 – – 1.38 <1	<450 200 550 6500 15000 2.44 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
<450 200 550 – – 1.17 <1	<450 200 500 – – 1.30 <1	<450 200 450 6500 12500 2.15 <1	<450 200 450 – – 1.70 <1	<450 200 500 – – 2.09 <1	<450 200 500 – – 1.00 <1	<450 200 500 – – 1.87 <1	<450 200 550 – – 1.78 <1	<450 200 350 – – 1.21 <1	<450 200 100 6500 3500 0.58	<450 200 100 – – 0.57	<450 200 100 – – 1.17 <1	<450 200 100 6500 3500 1.13 <1	<450 200 100 – – 1.12 <1	<450 200 100 – – 1.13 <1	<450 200 100 – – 0.64	<450 200 100 – – 1.89 <1	<450 200 100 6500 3000 0.63	<450 200 100 – – 0.63	<450 200 100 – – 0.63	AT
<450 200 600 6500 15000 1.85 <1	<450 200 550 – – 2.45 <1	<450 200 550 – – 2.53 <1	<450 200 600 – – 3.07 <1	<450 200 600 6500 15000 2.02 <1	<450 200 550 – – 3.11 <1	<450 200 500 – – 2.07 <1	<450 200 550 6500 12500 2.96 <1	<450 200 450 – – 1.94 <1	<450 200 150 – – 1.20 <1	<450 200 100 6500 4000 0.38	<450 200 100 – – 0.42	<450 200 100 – – 0.74	<450 200 100 – – 1.10 <1	<450 200 100 6500 3000 0.47	<450 200 175 – – 0.64	<450 200 175 – – 1.28 <1	<450 200 125 – – 1.00 <1	<450 200 150 – – 0.73	<450 200 100 6500 3500 1.08 <1	AS
<450 200 450 – – 1.06 <1	<450 200 450 – – 1.24 <1	<450 200 450 6500 10000 2.14 <1	<450 200 450 – – 1.42 <1	<450 200 450 – – 1.24 <1	<450 200 450 – – 3.03 <1	<450 200 450 – – 3.12 <1	<450 200 450 – – 2.16 <1	<450 200 450 – – 1.82 <1	<450 200 150 6500 4000 0.99	<450 200 150 – – 0.5[illegible]	<450 200 200 – – 1.10 <1	<450 200 150 6500 4000 0.78	<450 200 150 – – 0.38	<450 200 150 – – 0.69	<450 200 150 – – 0.91	<450 200 150 – – 0.74	<450 200 150 6500 4000 0.56	<450 200 150 – – 1.07 <1	<450 200 150 – – 0.55	AR
<450 200 450 6500 10000 1.84 <1	<450 200 450 – – 1.25 <1	<450 200 450 – – 2.83 <1	<450 200 450 – – 2.12 <1	<450 200 600 6500 15000 2.08 <1	<450 200 500 – – 4.90 <1	<450 200 600 – – 1.37 <1	<450 200 600 6500 15000 3.00 <1	<450 200 450 – – 0.83	<450 200 150 – – 0.95	<450 200 150 6500 4000 0.85	<450 200 150 – – 0.59	<450 200 150 – – 0.62	<450 200 150 – – 0.97	<450 200 150 6500 4000 1.10 <1	<450 200 200 – – 0.96	<450 200 200 – – 3.58 <1	<450 200 200 – – 5.56 <1	<450 200 100 – – 1.03 <1	<450 200 100 6500 4000 0.96	AQ
<450 200 500 – – 1.90 <1	<450 200 600 – – 1.95 <1	<450 200 600 – – 2.17 <1	<450 200 550 6500 15000 2.18 <1	<450 200 500 – – 3.65 <1	<450 200 500 – – 1.92 <1	<450 200 550 – – 2.76 <1	<450 200 500 6500 7000 2.16 <1	<450 200 350 – – 2.83 <1	<450 200 150 – – 0.86	<450 200 100 – – 1.41 <1	<450 200 150 – – 0.95	<450 200 150 6500 4000 1.02 <1	<450 200 150 – – 1.23 <1	<450 200 150 – – 0.92	<450 200 150 – – 1.34 <1	<450 200 150 – – 0.92	<450 200 150 – – 0.77	<450 200 150 – – 0.93	<450 200 150 6500 4000 1.15 <1	AP
<450 200 450 – – 2.57 <1	<450 200 500 6500 15000 0.94	<450 200 550 – – 1.93 <1	<450 200 500 – – 2.44 <1	<450 200 450 – – 2.61 <1	<450 200 450 6500 15000 4.86 <1	<450 200 550 – – 2.10 <1	<450 200 550 – – 4.34 <1	<450 200 600 – – 1.07 <1	<450 200 150 6500 4500 0.87	<450 200 100 – – 1.8[illegible] <1	<450 200 150 6500 4000 1.31 <1	<450 200 150 – – 1.10 <1	<450 200 150 6500 4000 0.82	<450 200 100 – – 1.23 <1	<450 200 100 6500 4000 0.92	<450 200 150 – – 0.63	<450 200 150 – – 0.79	<450 200 150 – – 0.93	<450 200 100 – – 1.20 <1	AO
<450 200 450 – – 0.94	<450 200 450 – – 0.74	<450 200 450 6500 15000 1.99 <1	<450 200 450 – – 1.45 <1	<450 200 450 – – 1.48 <1	<450 200 450 – – 1.72 <1	<450 200 500 6500 10000 1.27 <1	<450 200 450 – – 1.25 <1	<450 200 350 – – 1.46 <1	<450 200 100 – – 0.88	<450 200 125 – – 0.68	<450 200 125 – – 0.52	<450 200 150 6500 4500 0.80	<450 200 125 – – 0.96	<450 200 125 – – 0.54	<450 200 150 – – 0.79	<450 200 125 6500 4250 1.04 <1	<450 200 100 – – 0.78	<450 200 100 – – 0.72	<450 200 125 – – 0.94	AN
<450 200 550 6500 10000 1.63 <1	<450 200 450 – – 2.86 <1	<450 200 400 – – 1.04 <1	<450 200 350 – – 0.84	<450 200 350 6500 8000 0.93	<450 200 450 – – 1.40 <1	<450 200 550 – – 1.34 <1	<450 200 350 – – 1.18 <1	<450 200 300 – – 0.74	<450 200 150 6500 3500 0.89	<450 200 150 6500 5000 1.06 <1	<450 200 150 – – 1.02 <1	<450 200 150 – – 1.02 <1	<450 200 150 – – 0.76	<450 200 150 6500 4500 1.06 <1	<450 200 175 – – 0.54	<450 200 150 – – 1.04 <1	<450 200 100 – – 0.80	<450 200 200 – – 4.35 <1	<450 200 100 6500 3500 0.66	AM
<450 200 450 6500 12500 3.54 <1	<450 200 450 – – 4.70 <1	<450 200 350 – – 0.94	<450 200 300 – – 1.17 <1	<450 200 350 6500 9500 0.72	<450 200 350 – – 0.66	<450 200 350 – – 1.34 <1	<450 200 350 – – 0.67	<450 200 350 – – 0.63	<450 200 100 6500 4000 0.66	<450 200 150 – – 1.27 <1	<450 200 150 – – 0.98	<450 200 150 6500 4000 1.07 <1	<450 200 100 – – 1.49 <1	<450 200 100 – – 1.01 <1	<450 200 100 – – 0.83	<450 200 100 – – 1.04 <1	<450 200 150 6500 3000 1.05 <1	<450 200 200 – – 1.09 <1	<450 200 150 – – 0.82	AL
<450 200 475 – – 2.70 <1	<450 200 500 – – 2.04 <1	<450 200 475 6500 12500 0.96	<450 200 500 – – 0.97	<450 200 425 – – 0.98	<450 200 350 – – 1.5[illegible] <1	<450 200 475 6500 10000 1.69 <1	<450 200 475 – – 1.51 <1	<450 200 375 – – 0.94	<450 200 125 – – 0.85	<450 200 125 6500 5000 0.90	<450 200 150 – – 1.15 <1	<450 200 150 – – 1.13 <1	<450 200 150 – – 1.29 <1	<450 200 150 – – 0.75	<450 200 150 6500 4500 1.29 <1	<450 200 125 – – <0.35	<450 200 125 – – 0.77	<450 200 200 – – 2.43 <1	<450 200 125 6500 4000 1.34 <1	AK

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
AT	<450 200 650 – – 1.31 <1	<450 200 600 6500 15000 2.12 <1	<450 200 550 – – 0.73	<450 200 600 – – 1.47 <1	<450 200 600 – – 2.84 <1	<450 200 550 – – 1.18 <1	<450 200 500 – – 1.08 <1	<450 200 450 6500 12500 0.92	<450 200 500 – – 1.39 <1	<450 200 550 – – 0.96
AS	<450 200 450 – – 1.25 <1	<450 200 450 – – 1.14 <1	<450 200 450 6500 15000 1.03 <1	<450 200 500 – – 1.70 <1	<450 200 600 – – 1.46 <1	<450 200 500 6500 15000 2.56 <1	<450 200 500 – – 1.79 <1	<450 200 450 – – 2.46 <1	<450 200 500 6500 15000 3.24 <1	<450 200 600 – – 1.85 <1
AR	<450 200 600 – – 1.22 <1	<450 200 500 6500 12000 0.85	<450 200 500 – – 1.46 <1	<450 200 550 – – 2.10 <1	<450 200 550 – – 1.72 <1	<450 200 450 – – 1.95 <1	<450 200 450 – – 1.53 <1	<450 200 450 – – 1.14 <1	<450 200 450 – – 0.68	<450 200 450 6500 10000 0.89
AQ	<450 200 625 – – 1.35 <1	<450 200 575 – – 1.23 <1	<450 200 500 6500 10400 1.38 <1	<450 200 560 – – 1.45 <1	<450 200 525 6500 10400 1.29 <1	<450 200 550 – – 2.66 <1	<450 200 500 – – 1.74 <1	<450 200 450 6500 15000 1.37 <1	<450 200 450 – – 1.46 <1	<450 200 450 – – 1.87 <1
AP	<450 200 600 6500 15000 1.44 <1	<450 200 550 – – 2.58 <1	<450 200 550 – – 1.70 <1	<450 200 550 – – 2.82 <1	<450 200 550 – – 2.02 <1	<450 200 550 6500 15000 2.28 <1	<450 200 550 – – 2.08 <1	<450 200 550 – – 1.38 <1	<450 200 550 – – 2.01 <1	<450 200 550 6500 15000 0.51
AO	<450 200 500 – – 1.98 <1	<450 200 500 – – 1.09 <1	<450 200 500 – – 4.24 <1	<450 200 550 6500 15000 2.33 <1	<450 200 450 – – 2.25 <1	<450 200 500 – – 4.15 <1	<450 200 500 – – 4.69 <1	<450 200 450 6500 15000 2.92 <1	<450 200 500 – – 1.49 <1	<450 200 450 – – 2.39 <1
AN	<450 200 650 – – 3.54 <1	<450 200 650 – – 2.08 <1	<450 200 550 6500 15000 1.59 <1	<450 200 500 – – 3.92 <1	<450 200 500 – – 1.95 <1	<450 200 500 – – 1.09 <1	<450 200 500 – – 3.52 <1	<450 200 500 6500 12500 0.76	<450 200 500 – – 0.63	<450 200 500 – – 1.05 <1
AM	<450 200 600 6500 15000 0.88	<450 200 500 – – 2.03 <1	<450 200 550 – – 1.46 <1	<450 200 550 – – 0.94	<450 200 500 – – 1.16 <1	<450 200 450 6500 10000 1.84 <1	<450 200 500 – – 2.52 <1	<450 200 450 – – 1.47 <1	<450 200 500 – – 1.38 <1	<450 200 500 6500 12500 1.41 <1
AL	<450 200 700 – – 1.01 <1	<450 200 625 – – 2.62 <1	<450 200 575 – – 1.25 <1	<450 200 575 6500 15000 1.26 <1	<450 200 550 – – 0.86	<450 200 500 – – 3.35 <1	<450 200 500 – – 1.56 <1	<450 200 500 6500 15000 3.33 <1	<450 200 500 – – 1.40 <1	<450 200 500 – – 1.34 <1
AK	<450 200 550 – – 0.86	<450 200 600 6500 17250 0.74	<450 200 500 – – 1.12 <1	<450 200 500 – – 0.96	<450 200 500 – – 0.58	<450 200 500 6500 15000 1.13 <1	<450 200 500 – – 2.54 <1	<450 200 475 – – 2.66 <1	<450 200 500 – – 2.22 <1	<450 200 500 6500 12500 0.85

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
<450 200 400 6500 12500 1.02 <1	<450 200 375 – – 1.20 <1	<450 200 375 – – 1.31 <1	<450 200 375 – – 1.03 <1	<450 200 375 6500 12500 1.14 <1	<450 200 375 – – 1.56 <1	<450 200 375 – – 0.77 <1	<450 200 375 – – 0.99 <1	<450 200 375 – – 1.05 <1	<450 200 125 – – 1.06 <1	<450 200 175 – – 0.53 <1	<450 200 175 – – 1.29 <1	<450 200 150 – – 0.81 <1	<450 200 150 6500 4000 0.78 <1	<450 200 150 – – 1.08 <1	<450 200 125 – – 0.63 <1	<450 200 150 – – 0.88 <1	<450 200 150 6500 4000 1.02 <1	<450 200 150 – – 1.40 <1	<450 200 175 – – 0.89 <1	BD
<450 200 500 – – 1.01 <1	<450 200 500 – – 1.10 <1	<450 200 550 6500 15000 0.59 <1	<450 200 500 – – 1.34 <1	<450 200 550 – – 0.66 <1	<450 200 550 – – <0.40 <1	<450 200 550 6500 15000 1.27 <1	<450 200 550 – – 1.33 <1	<450 200 450 – – 1.08 <1	<450 200 100 6500 4000 0.47 <1	<450 200 175 – – 0.73 <1	<450 200 100 6500 4500 0.60 <1	<450 200 100 – – 1.19 <1	<450 200 100 – – 0.95 <1	<450 200 100 – – 1.33 <1	<450 200 150 6500 6000 2.42 <1	<450 200 150 – – 0.87 <1	<450 200 250 – – 0.71 <1	<450 200 300 6500 6000 0.75 <1	<450 200 300 – – 2.06 <1	BC
<450 200 400 – – 1.46 <1	<450 200 500 – – 1.15 <1	<450 200 550 – – 0.89 <1	<450 200 500 – – 1.22 <1	<450 200 450 6500 12500 1.71 <1	<450 200 400 – – 0.80 <1	<450 200 500 6500 15000 1.12 <1	<450 200 450 – – 1.31 <1	<450 200 350 – – 1.21 <1	<450 200 300 – – 1.15 <1	<450 200 150 – – 1.18 <1	<450 200 150 – – 0.95 <1	<450 200 150 6500 4000 1.02 <1	<450 200 150 – – 0.73 <1	<450 200 150 – – 0.50 <1	<450 200 150 – – 1.31 <1	<450 200 500 – – 1.18 <1	<450 200 500 6500 15000 1.41 <1	<450 200 600 – – 3.98 <1	<450 200 550 – – 2.44 <1	BB
<450 200 450 6500 15000 1.06 <1	<450 200 450 – – 1.04 <1	<450 200 500 – – 0.75 <1	<450 200 500 6500 9500 1.52 <1	<450 200 500 – – 1.58 <1	<450 200 400 – – 1.42 <1	<450 200 400 – – 1.53 <1	<450 200 500 – – 1.38 <1	<450 200 450 6500 9500 1.31 <1	<450 200 100 – – 1.59 <1	<450 200 100 6500 4000 0.65 <1	<450 200 100 – – 1.21 <1	<450 200 150 – – 0.39 <1	<450 200 100 – – 0.68 <1	<450 200 100 6500 4500 0.83 <1	<450 200 600 – – 2.18 <1	<450 200 600 – – 1.18 <1	<450 200 500 – – 1.46 <1	<450 200 500 – – 1.08 <1	<450 200 600 6500 15000 1.16 <1	BA
<450 200 550 – – 5.41 <1	<450 200 450 6500 12500 1.28 <1	<450 200 450 – – 0.71 <1	<450 200 450 – – 0.90 <1	<450 200 450 – – 1.70 <1	<450 200 500 6500 15000 1.44 <1	<450 200 450 – – 0.57 <1	<450 200 500 – – <0.44 <1	<450 200 450 – – 1.00 <1	<450 200 125 – – 0.99 <1	<450 200 125 – – 0.85 <1	<450 200 100 – – 1.11 <1	<450 200 100 – – 0.59 <1	<450 200 125 – – 0.83 <1	<450 200 150 – – 1.13 <1	<450 200 500 6500 12500 1.90 <1	<450 200 500 – – 1.26 <1	<450 200 500 – – 2.15 <1	<450 200 500 – – 1.89 <1	<450 200 550 6500 12500 1.81 <1	AZ
<450 200 450 – – 0.95 <1	<450 200 450 – – 1.45 <1	<450 200 450 – – 1.09 <1	<450 200 400 6500 15000 2.04 <1	<450 200 500 – – 1.34 <1	<450 200 350 – – 1.01 <1	<450 200 450 6500 15000 1.64 <1	<450 200 450 – – 1.16 <1	<450 200 350 – – 1.37 <1	<450 200 100 6500 3500 1.08 <1	<450 200 100 6500 4000 1.83 <1	<450 200 100 – – 1.79 <1	<450 200 100 – – 1.10 <1	<450 200 100 6500 3500 0.97 <1	<450 200 100 – – 1.42 <1	<450 200 500 – – 1.88 <1	<450 200 500 6500 15000 1.94 <1	<450 200 500 – – 1.08 <1	<450 200 450 – – 1.74 <1	AY
<450 200 450 6500 15000 1.11 <1	<450 200 450 – – 1.29 <1	<450 200 500 6500 15000 1.35 <1	<450 200 450 – – 1.91 <1	<450 200 400 – – 2.11 <1	<450 200 450 – – 1.11 <1	<450 200 500 – – 1.18 <1	<450 200 450 – – 0.93 <1	<450 200 400 – – 1.13 <1	<450 200 100 6500 15000 1.12 <1	<450 200 100 – – 1.76 <1	<450 200 100 – – 1.43 <1	<450 200 100 – – 1.51 <1	<450 200 100 – – 0.81 <1	<450 200 150 6500 5000 1.12 <1	<450 200 450 – – 1.83 <1	<450 200 500 6500 12500 2.07 <1	<450 200 450 – – 2.77 <1	<450 200 550 – – 2.74 <1	<450 200 550 – – 1.70 <1	AX
<450 200 500 – – 2.25 <1	<450 200 500 – – 1.42 <1	<450 200 450 – – 1.48 <1	<450 200 500 – – 1.58 <1	<450 200 550 6500 15000 1.52 <1	<450 200 600 – – 1.40 <1	<450 200 600 6500 15000 1.35 <1	<450 200 550 – – 1.88 <1	<450 200 500 – – 1.82 <1	<450 200 100 – – 1.82 <1	<450 200 125 6500 4000 1.38 <1	<450 200 100 – – 0.98 <1	<450 200 100 6500 4000 1.31 <1	<450 200 150 – – 1.21 <1	<450 200 150 – – 0.98 <1	<450 200 550 – – 1.04 <1	<450 200 600 – – 2.23 <1	<450 200 450 6500 15000 1.91 <1	<450 200 450 – – 1.40 <1	<450 200 450 – – 1.25 <1	AW
<450 200 500 6500 15000 2.43 <1	<450 200 550 – – 1.16 <1	<450 200 500 – – 1.78 <1	<450 200 500 – – 1.33 <1	<450 200 500 – – 0.47 <1	<450 200 500 – – 0.99 <1	<450 200 500 – – 1.17 <1	<450 200 500 6500 15000 1.10 <1	<450 200 500 – – 0.89 <1	<450 200 150 – – 0.96 <1	<450 200 100 – – 1.26 <1	<450 200 125 – – 1.70 <1	<450 200 125 6500 4500 1.26 <1	<450 200 100 – – 1.42 <1	<450 200 150 – – 1.03 <1	<450 200 450 – – 1.21 <1	<450 200 500 6500 12500 1.94 <1	<450 200 500 – – 1.79 <1	<450 200 500 – – 2.61 <1	<450 200 500 – – 1.55 <1	AV
<450 200 550 – – 1.15 <1	<450 200 600 – – 1.35 <1	<450 200 500 6500 15000 1.73 <1	<450 200 450 – – 2.27 <1	<450 200 500 – – 1.29 <1	<450 200 500 6500 15000 2.30 <1	<450 200 450 – – 1.30 <1	<450 200 450 – – 1.86 <1	<450 200 400 – – 1.68 <1	<450 200 100 6500 4500 1.31 <1	<450 200 200 6500 4000 0.82 <1	<450 200 150 – – 1.64 <1	<450 200 150 – – 1.01 <1	<450 200 150 – – 0.83 <1	<450 200 150 6500 3500 0.87 <1	<450 200 450 – – 1.19 <1	<450 200 450 – – 1.59 <1	<450 200 450 – – 1.36 <1	<450 200 350 – – 1.24 <1	<450 200 450 6500 9000 1.28 <1	AU

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
BD	<450 200 500 6500 12500 1.81 <1	<450 200 500 – – 1.48 <1	<450 200 500 – – 2.73 <1	<450 200 500 – – 2.35 <1	<450 200 450 6500 12500 2.15 <1	<450 200 500 – – 1.66 <1	<450 200 550 – – 1.44 <1	<450 200 525 – – 2.37 <1	<450 200 600 – – 2.71 <1	<450 200 425 6500 12500 2.51 <1
BC	<450 200 550 – – 1.71 <1	<450 200 550 – – 1.30 <1	<450 200 550 6500 15000 2.04 <1	<450 200 550 – – 1.37 <1	<450 200 550 – – 1.45 <1	<450 200 550 – – 2.33 <1	<450 200 550 – – 1.00 <1	<450 200 550 6500 15000 1.26 <1	<450 200 550 – – 2.58 <1	<450 200 550 – – 1.53 <1
BB	<450 200 650 – – 1.44 <1	<450 200 550 – – 1.58 <1	<450 200 600 – – 1.72 <1	<450 200 600 6500 15000 1.18 <1	<450 200 600 – – 1.69 <1	<450 200 600 – – 1.39 <1	<450 200 600 – – 0.91 <1	<450 200 500 6500 15000 0.79 <1	<450 200 550 – – 1.01 <1	<450 200 550 – – 1.01 <1
BA	<450 200 700 – – 1.55 <1	<450 200 500 6500 15000 2.01 <1	<450 200 500 – – 2.09 <1	<450 200 600 – – 2.43 <1	<450 200 500 – – 1.52 <1	<450 200 500 6500 15000 1.77 <1	<450 200 450 – – 1.31 <1	<450 200 400 – – 1.41 <1	<450 200 500 – – 2.10 <1	<450 200 450 6500 15000 2.14 <1
AZ	<450 200 650 – – 1.28 <1	<450 200 650 – – 1.60 <1	<450 200 550 6500 15000 3.58 <1	<450 200 600 – – 1.05 <1	<450 200 500 – – 1.27 <1	<450 200 600 – – 1.05 <1	<450 200 550 – – 1.13 <1	<450 200 550 – – 1.26 <1	<450 200 500 6500 12500 1.99 <1	<450 200 500 – – 1.15 <1
AY	<450 200 550 – – 1.06 <1	<450 200 550 – – 1.40 <1	<450 200 550 – – 4.54 <1	<450 200 500 – – 1.13 <1	<450 200 500 6500 15000 1.18 <1	<450 200 450 – – 0.71	<450 200 500 – – 1.37 <1	<450 200 500 6500 15000 4.14 <1	<450 200 450 – – 1.00 <1	<450 200 450 6500 12500 1.41 <1
AX	<450 200 650 – – 1.78 <1	<450 200 600 6500 15500 0.80	<450 200 600 – – 3.69 <1	<450 200 600 – – 0.93	<450 200 600 – – 1.00 <1	<450 200 600 – – 0.55	<450 200 600 – – 1.10 <1	<450 200 500 6500 12500 0.65	<450 200 500 – – 0.58	<450 200 500 – – 0.98
AW	<450 200 600 – – 2.20 <1	<450 200 500 – – 2.34 <1	<450 200 550 – – 5.68 <1	<450 200 550 6500 15000 1.75 <1	<450 200 600 – – 1.96 <1	<450 200 500 6500 12500 1.95 <1	<450 200 500 – – 1.04 <1	<450 200 500 – – 1.55 <1	<450 200 500 – – 1.15 <1	<450 200 500 6500 15000 1.19 <1
AV	<450 200 650 6500 15000 1.63 <1	<450 200 600 – – 1.39 <1	<450 200 600 – – 1.99 <1	<450 200 550 – – 1.94 <1	<450 200 550 – – 1.61 <1	<450 200 500 – – 1.89 <1	<450 200 500 – – 1.34 <1	<450 200 550 6500 15000 1.57 <1	<450 200 550 – – 1.92 <1	<450 200 550 – – 2.07 <1
AU	<450 200 600 – – 1.75 <1	<450 200 550 – – 2.29 <1	<450 200 550 6500 15000 1.90 <1	<450 200 600 – – 1.78 <1	<450 200 650 – – 1.49 <1	<450 200 600 6500 15000 1.53 <1	<450 200 600 – – 1.26 <1	<450 200 700 – – 1.79 <1	<450 200 650 6500 15000 1.21 <1	<450 200 650 – – 1.45 <1

Sample Data

- <450 – IM-247/PD Results [μμCi/20cm²]
- 200 – IM-253/PD (HV-1 PHA) [bkg.]
- 300 – IM-253/PD (HV-1 PHA) [cpm]
- 7000 – IM-253/PD (HV-2 GROSS) [bkg.]
- 7300 – IM-253/PD (HV-2 GROSS) [cpm]
- 1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
- <1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
<450 200 150 6500 4500 1.49 <1	<450 200 150 – – 2.68 <1	<450 200 150 – – 1.61 <1	<450 200 125 – – <0.48	<450 200 125 – – 1.36 <1	<450 200 125 6500 3500 1.65 <1	<450 200 150 – – 1.06 <1	<450 200 125 – – 2.18 <1	<450 200 100 – – 1.53 <1	<450 200 125 6500 3750 1.80 <1	<450 200 100 6500 3500 1.45 <1	<450 200 100 – – 1.78 <1	<450 200 100 – – 1.54 <1	<450 200 150 – – 1.48 <1	<450 200 125 6500 3500 2.07 <1	<450 200 125 – – 0.90	<450 200 125 – – <0.54	<450 200 100 – – 0.65	<450 200 150 – – 0.85	<450 200 150 6500 4000 1.27 <1	BN
<450 200 125 – – 1.23 <1	<450 200 100 – – 1.56 <1	<450 200 100 – – 1.24 <1	<450 200 100 6500 4000 1.37 <1	<450 200 125 – – 2.49 <1	<450 200 100 – – 1.69 <1	<450 200 125 – – 2.05 <1	<450 200 100 6500 3500 1.66 <1	<450 200 100 – – 1.59 <1	<450 200 150 – – 1.52 <1	<450 200 100 – – 1.51 <1	<450 200 100 – – 1.68 <1	<450 200 150 6500 3500 1.34 <1	<450 200 100 – – 1.66 <1	<450 200 150 – – 1.63 <1	<450 200 100 – – 0.91	<450 200 125 – – 1.07 <1	<450 200 100 6500 4000 0.83	<450 200 150 – – 0.70	<450 200 125 – – 1.36 <1	BM
<450 200 100 – – 0.93	<450 200 100 – – 0.70	<450 200 100 – – 1.52 <1	<450 200 130 6500 3500 1.15 <1	<450 200 100 – – 0.96	<450 200 100 – – 2.06 <1	<450 200 100 – – 1.29 <1	<450 200 100 6500 3500 1.46 <1	<450 200 100 – – 1.58 <1	<450 200 100 – – 1.40 <1	<450 200 100 – – 1.54 <1	<450 200 150 – – 1.59 <1	<450 200 150 – – 2.45 <1	<450 200 150 6500 3500 1.77 <1	<450 200 150 – – 1.53 <1	<450 200 150 – – 1.05 <1	<450 200 100 – – 1.57 <1	<450 200 150 6500 3500 1.12 <1	<450 200 100 – – 1.10 <1	<450 200 100 – – 1.01 <1	BL
<450 200 150 – – 1.46 <1	<450 200 150 6500 4000 1.63 <1	<450 200 150 – – 1.64 <1	<450 200 130 – – 0.93	<450 200 100 – – 1.82 <1	<450 200 100 6500 3500 1.17 <1	<450 200 100 – – 1.51 <1	<450 200 100 – – 1.26 <1	<450 200 150 – – 0.78	<450 200 150 6500 4000 1.48 <1	<450 200 150 6500 3500 1.79 <1	<450 200 100 – – 2.05 <1	<450 200 100 – – 1.23 <1	<450 200 150 – – 1.39 <1	<450 200 150 6500 3500 1.56 <1	<450 200 100 – – 1.34 <1	<450 200 100 – – 1.10 <1	<450 200 150 – – 1.31 <1	<450 200 100 6500 3500 0.90	<450 200 100 – – 0.97	BK
<450 200 250 – – 2.22 <1	<450 200 325 – – 2.64 <1	<450 200 300 6500 5000 1.16 <1	<450 200 300 – – 0.88	<450 200 350 – – 1.31 <1	<450 200 450 – – 2.01 <1	<450 200 375 6500 8500 0.75	<450 200 350 – – 1.38 <1	<450 200 350 – – 1.64 <1	<450 200 150 – – 1.36 <1	<450 200 100 – – 1.98 <1	<450 200 125 – – 1.46 <1	<450 200 100 – – 1.54 <1	<450 200 100 6500 4000 1.07 <1	<450 200 130 – – 1.21 <1	<450 200 150 – – 1.80 <1	<450 200 150 – – 0.92	<450 200 100 6500 3500 1.41 <1	<450 200 150 – – 1.52 <1	<450 200 100 – – 1.16 <1	BJ
<450 200 450 6500 12500 1.28 <1	<450 200 400 – – 1.20 <1	<450 200 400 – – 1.33 <1	<450 200 450 – – 2.04 <1	<450 200 375 5500 9500 0.86	<450 200 500 – – 1.26 <1	<450 200 375 – – 1.49 <1	<450 200 450 – – 1.85 <1	<450 200 375 6500 4000 1.74 <1	<450 200 100 – – <0.45	<450 200 150 – – 1.23 <1	<450 200 150 6500 4000 1.09 <1	<450 200 150 – – 1.70 <1	<450 200 75 – – 1.07 <1	<450 200 150 – – 0.81	<450 200 100 – – 1.01 <1	<450 200 100 – – 1.14 <1	<450 200 150 – – 0.81	<450 200 100 – – 0.85	<450 200 100 6500 3250 1.14 <1	BI
<450 200 425 – – 0.95	<450 200 425 – – 0.98	<450 200 450 6500 12500 1.20 <1	<450 200 425 – – 0.60	<450 200 425 – – 1.28 <1	<450 200 425 – – 1.51 <1	<450 200 375 6500 12500 0.98	<450 200 425 – – 0.84	<450 200 350 – – 2.36 <1	<450 200 200 – – 0.99	<450 200 150 – – 1.13 <1	<450 200 200 – – 0.89	<450 200 150 6500 4000 0.96	<450 200 150 – – 0.74	<450 200 100 – – 0.84	<450 200 100 – – 0.95	<450 200 100 – – 0.85	<450 200 150 6500 4000 1.14 <1	<450 200 150 – – 0.55	<450 200 150 – – 0.42	BH
<450 200 450 6500 12500 1.00 <1	<450 200 450 – – 0.94	<450 200 450 – – 0.78	<450 200 450 – – 3.66 <1	<450 200 450 6500 12500 3.25 <1	<450 200 450 – – 4.32 <1	<450 200 425 – – 3.34 <1	<450 200 425 – – 2.99 <1	<450 200 450 6500 9500 4.01 <1	<450 200 200 – – 3.41 <1	<450 200 100 6500 4500 1.38 <1	<450 200 200 – – 0.67	<450 200 150 – – 0.80	<450 200 150 – – 0.77	<450 200 200 6500 4500 0.87	<450 200 200 – – <0.36	<450 200 150 – – <0.45	<450 200 175 – – <0.43	<450 200 175 – – <0.43	<450 200 175 6500 4000 <0.43	BG
<450 200 400 – – 2.42 <1	<450 200 500 – – 1.62 <1	<450 200 400 6500 15000 1.35 <1	<450 200 450 – – 1.57 <1	<450 200 375 – – 2.57 <1	<450 200 375 – – 2.74 <1	<450 200 375 – – 2.35 <1	<450 200 375 – – 0.78	<450 200 450 – – 1.87 <1	<450 200 100 6500 4250 0.56	<450 200 75 – – 1.48 <1	<450 200 100 – – 3.12 <1	<450 200 125 6500 4000 1.13 <1	<450 200 100 – – 0.74	<450 200 75 – – 0.71	<450 200 100 – – 1.19 <1	<450 200 100 – – 1.34 <1	<450 200 100 – – 0.81	<450 200 150 6500 4300 1.14 <1	<450 200 100 – – 0.54	BF
<450 200 400 6500 15000 1.13 <1	<450 200 450 – – 0.92	<450 200 400 – – 1.67 <1	<450 200 450 – – 0.89	<450 200 400 6500 15000 1.07 <1	<450 200 450 – – 1.54 <1	<450 200 500 – – 1.08 <1	<450 200 500 – – 0.67	<450 200 450 – – 0.57	<450 200 150 6500 4500 1.09 <1	<450 200 100 6500 4000 <0.43	<450 200 100 – – 0.76	<450 200 100 – – 0.56	<450 200 100 – – 1.08 <1	<450 200 250 6500 4000 1.12 <1	<450 200 100 – – 0.92	<450 200 100 – – <0.44	<450 200 200 8500 4000 0.51	<450 200 100 – – 1.00 <1	<450 200 175 – – 1.70 <1	BE

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
BN	<450 200 525 – – 1.09 <1	<450 200 450 6500 12500 1.22 <1	<450 200 600 – – 2.39 <1	<450 200 600 – – 1.37 <1	<450 200 550 – – 1.53 <1	<450 200 350 – – 0.83	<450 200 150 6500 4750 0.90	<450 200 175 – – 1.26 <1	<450 200 150 – – 0.96	<450 200 150 6500 4750 1.21 <1
BM	<450 200 550 – – 2.14 <1	<450 200 500 – – 1.42 <1	<450 200 550 – – 1.97 <1	<450 200 550 – – 1.85 <1	<450 200 450 6500 15000 1.28 <1	<450 200 250 – – 1.29 <1	<450 200 100 – – 1.65 <1	<450 200 125 6500 4000 1.27 <1	<450 200 100 – – 1.24 <1	<450 200 100 – – 1.07 <1
BL	<450 200 400 – – 2.02 <1	<450 200 400 – – 1.63 <1	<450 200 450 – – 1.89 <1	<450 200 450 6500 15000 2.09 <1	<450 200 450 – – 1.43 <1	<450 200 100 – – 0.82	<450 200 150 – – 0.63	<450 200 150 6500 4500 1.04 <1	<450 200 100 – – 0.75	<450 200 100 – – 0.80
BK	<450 200 450 – – 1.77 <1	<450 200 600 6500 15000 1.45 <1	<450 200 600 – – 1.31 <1	<450 200 600 – – 2.32 <1	<450 200 550 – – 1.51 <1	<450 200 150 6500 6000 1.64 <1	<450 200 200 – – 0.85	<450 200 150 – – 1.64 <1	<450 200 100 6500 4000 1.35 <1	<450 200 100 – – 1.12 <1
BJ	<450 200 500 – – 1.40 <1	<450 200 450 – – 1.19 <1	<450 200 600 6500 15000 1.77 <1	<450 200 600 – – 2.74 <1	<450 200 550 – – 1.24 <1	<450 200 500 – – 0.89	<450 200 475 – – 0.84	<450 200 450 – – 1.84 <1	<450 200 450 – – 1.04 <1	<450 200 300 6500 12500 1.95 <1
BI	<450 200 600 6500 12500 1.22 <1	<450 200 600 – – 0.83	<450 200 600 – – 1.24 <1	<450 200 550 – – 2.31 <1	<450 200 550 6500 12500 1.43 <1	<450 200 550 – – 0.88	<450 200 550 – – 0.96	<450 200 650 6500 12500 0.73	<450 200 600 – – 1.14 <1	<450 200 500 – – 0.60
BH	<450 200 450 – – 1.42 <1	<450 200 450 6500 12500 1.04 <1	<450 200 500 – – 1.16 <1	<450 200 550 – – 1.01 <1	<450 200 450 – – 1.02 <1	<450 200 450 6500 15000 1.13 <1	<450 200 450 – – 0.71	<450 200 500 – – 1.48 <1	<450 200 450 – – 1.33 <1	<450 200 425 – – 1.57 <1
BG	<450 200 400 – – 1.04 <1	<450 200 425 – – 1.36 <1	<450 200 600 – – 1.22 <1	<450 200 550 6500 17500 1.19 <1	<450 200 550 – – 1.00 <1	<450 200 500 – – 1.24 <1	<450 200 550 – – 1.37 <1	<450 200 550 6500 15000 1.03 <1	<450 200 450 – – 1.29 <1	<450 200 425 6500 12500 0.98
BF	<450 200 550 – – 1.97 <1	<450 200 575 6500 15000 1.13 <1	<450 200 575 – – 1.23 <1	<450 200 550 – – 1.78 <1	<450 200 600 – – 2.18 <1	<450 200 600 6500 15000 2.94 <1	<450 200 575 – – 2.56 <1	<450 200 600 – – 2.13 <1	<450 200 575 – – 2.76 <1	<450 200 575 – – 1.02 <1
BE	<450 200 550 – – 1.55 <1	<450 200 600 – – 1.90 <1	<450 200 600 – – 1.82 <1	<450 200 625 6500 17500 1.75 <1	<450 200 600 – – 1.83 <1	<450 200 500 – – 1.91 <1	<450 200 500 6500 15000 1.65 <1	<450 200 500 – – 1.58 <1	<450 200 500 6500 15000 1.53 <1	<450 200 500 – – 1.30 <1

Sample Data

- <450 – IM-247/PD Results [μμCi/20cm²]
- 200 – IM-253/PD (HV-1 PHA) [bkg.]
- 300 – IM-253/PD (HV-1 PHA) [cpm]
- 7000 – IM-253/PD (HV-2 GROSS) [bkg.]
- 7300 – IM-253/PD (HV-2 GROSS) [cpm]
- 1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
- <1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

<450 200 200 – – 0.89	<450 200 150 6500 3750 1.03 <1	<450 200 150 – – 1.37 <1	<450 200 150 – – 0.85	<450 200 125 – – 1.31 <1	<450 200 125 6500 3250 1.43 <1	<450 200 150 – – 1.35 <1	<450 200 125 – – 1.18 <1	<450 200 150 – – 1.67 <1	<450 200 150 – – 1.42 <1	<450 200 100 6500 3000 1.17 <1	<450 200 100 – – 1.21 <1	<450 200 100 – – 1.20 <1	<450 200 100 – – 1.09 <1	<450 200 100 – – 1.22 <1	<450 200 150 – – 3.33 <1	<450 200 125 – – 1.26 <1	<450 200 100 – – 2.18 <1	<450 200 100 – – <0.35	<450 200 200 6500 3500 1.30 <1	BX
<450 200 200 – – 1.43 <1	<450 200 200 – – 1.65 <1	<450 200 200 – – 1.12 <1	<450 200 250 6500 3500 1.51 <1	<450 200 200 – – 0.95	<450 200 200 – – 1.32 <1	<450 200 200 6500 3500 1.11 <1	<450 200 250 – – 1.60 <1	<450 200 200 6500 4000 1.76 <1	<450 200 250 – – 1.84 <1	<450 200 250 – – 1.34 <1	<450 200 250 – – 1.05 <1	<450 200 250 – – 1.05 <1	<450 200 250 6500 3500 1.39 <1	<450 200 200 – – <0.43	<450 200 250 6500 3500 0.96 <1	<450 200 250 – – 1.25 <1	<450 200 150 6500 3000 0.79	<450 200 250 – – 0.74	<450 200 200 – – 1.04 <1	BW
<450 200 150 – – 0.88	<450 200 150 – – 1.24 <1	<450 200 150 6500 3500 0.80	<450 200 150 – – 0.61	<450 200 150 – – 1.39 <1	<450 200 150 – – 1.21 <1	<450 200 150 – – 0.84	<450 200 150 6500 3500 0.72	<450 200 150 – – 1.59 <1	<450 200 150 – – 1.03 <1	<450 200 150 – – 1.82 <1	<450 200 150 – – 1.73 <1	<450 200 100 – – 1.53 <1	<450 200 100 6500 3500 1.92 <1	<450 200 100 – – 1.24 <1	<450 200 100 – – 0.88	<450 200 100 – – 0.83	<450 200 100 – – 0.91	<450 200 100 – – 0.66	<450 200 100 6500 3500 0.95	BV
<450 200 75 6500 3500 1.72 <1	<450 200 100 – – 1.69 <1	<450 200 100 – – 1.03 <1	<450 200 150 – – 1.69 <1	<450 200 150 – – 1.51 <1	<450 200 100 6500 3500 1.40 <1	<450 200 75 – – 0.69	<450 200 75 – – 0.87	<450 200 50 – – 1.62 <1	<450 200 100 6500 3500 0.75	<450 200 75 – – 0.87	<450 200 100 6500 3500 1.11 <1	<450 200 100 – – 1.69 <1	<450 200 100 – – 0.82	<450 200 100 6500 3500 0.65	<450 200 100 – – 1.18 <1	<450 200 100 – – 1.51 <1	<450 200 100 6500 3500 0.97	<450 200 100 – – 0.67	<450 200 100 – – 1.38 <1	BU
<450 200 150 6500 3500 1.52 <1	<450 200 150 – – 1.16 <1	<450 200 200 – – 1.04 <1	<450 200 200 – – 1.30 <1	<450 200 250 6500 4000 1.40 <1	<450 200 200 – – 1.68 <1	<450 200 100 – – 1.31 <1	<450 200 100 – – 1.17 <1	<450 200 125 6500 3500 0.89	<450 200 100 – – 0.76	<450 200 100 – – 0.74	<450 200 100 – – 0.72	<450 200 125 6500 3500 1.08 <1	<450 200 100 – – 1.23 <1	<450 200 250 – – 2.54 <1	<450 200 100 – – 2.16 <1	<450 200 100 – – 1.37 <1	<450 200 150 6500 3500 2.29 <1	<450 200 100 – – 0.37	<450 200 125 – – 1.94 <1	BT
<450 200 125 – – 0.95	<450 200 100 – – 0.88	<450 200 75 6500 3500 0.80	<450 200 75 – – 0.80	<450 200 100 – – 0.78	<450 200 75 – – 0.75	<450 200 100 6500 4000 0.82	<450 200 100 – – 0.72	<450 200 100 – – 0.83	<450 200 75 – – 0.97	<450 200 100 6500 4000 0.71	<450 200 200 – – 0.40	<450 200 200 – – <0.36	<450 200 200 – – 1.33 <1	<450 200 250 – – 0.99	<450 200 150 6500 4000 1.18 <1	<450 200 100 – – 0.89	<450 200 100 – – 1.13 <1	<450 200 100 – – 0.82	<450 200 100 6500 4000 0.50	BS
<450 200 125 – – 1.25 <1	<450 200 100 – – 0.83	<450 200 100 6500 3500 0.49	<450 200 150 – – 0.69	<450 200 150 – – 1.14 <1	<450 200 100 – – 1.05 <1	<450 200 100 – – 1.41 <1	<450 200 125 6500 3000 1.58 <1	<450 200 150 – – 1.05 <1	<450 200 100 – – 1.78 <1	<450 200 100 – – 1.57 <1	<450 200 100 – – 0.82 <1	<450 200 100 6500 3000 1.35 <1	<450 200 125 – – 0.89 <1	<450 200 150 – – 1.26 <1	<450 200 125 – – 0.92 <1	<450 200 125 6500 3000 1.28 <1	<450 200 100 – – 1.20 <1	<450 200 100 – – 1.01 <1	<450 200 100 – – 1.60 <1	BR
<450 200 125 6500 3500 1.33 <1	<450 200 125 – – 0.77	<450 200 100 – – 0.56	<450 200 100 – – 0.89	<450 200 150 6500 3500 0.50	<450 200 225 – – 0.69	<450 200 125 – – 0.62	<450 200 100 – – 1.07 <1	<450 200 100 – – 0.85	<450 200 125 6500 3500 0.99	<450 200 150 6500 3500 0.53	<450 200 100 – – 1.33 <1	<450 200 100 – – 1.33 <1	<450 200 100 – – 1.33 <1	<450 200 150 6500 4000 1.23 <1	<450 200 100 – – 0.67	<450 200 150 – – 0.78	<450 200 150 – – 0.64	<450 200 150 – – 0.67	<450 200 150 6500 3750 0.50	BQ
<450 200 100 – – 0.83	<450 200 100 – – 0.92	<450 200 100 6500 3000 1.32 <1	<450 200 100 – – 1.02 <1	<450 200 150 – – 1.15 <1	<450 200 175 – – 0.73	<450 200 175 – – 0.93	<450 200 150 6500 4500 0.87	<450 200 175 – – 1.26 <1	<450 200 150 – – 1.04 <1	<450 200 150 – – 1.16 <1	<450 200 150 – – 0.71	<450 200 150 – – 1.23 <1	<450 200 150 6500 4000 1.27 <1	<450 200 150 – – 1.44 <1	<450 200 200 – – 1.30 <1	<450 200 100 – – 4.99 <1	<450 200 100 6500 3500 0.66	<450 200 150 – – 0.77	<450 200 150 – – 1.23 <1	BP
<450 200 150 6500 4500 0.95	<450 200 200 – – 1.38 <1	<450 200 200 – – 1.40 <1	<450 200 100 – – 0.90	<450 200 150 – – 1.03 <1	<450 200 150 6500 4500 1.16 <1	<450 200 100 – – 1.30 <1	<450 200 100 – – 0.90	<450 200 150 – – 1.23 <1	<450 200 125 6500 3500 1.14 <1	<450 200 125 – – 0.67	<450 200 125 6500 3500 1.03 <1	<450 200 100 – – 1.34 <1	<450 200 150 – – 0.77	<450 200 150 – – 0.58	<450 200 150 6500 4000 1.00 <1	<450 200 100 – – 0.88	<450 200 100 – – 1.54 <1	<450 200 150 – – 0.83	<450 200 100 6500 3500 <0.40	BO
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
BX	<450 200 450 6500 9000 1.52 <1	<450 200 450 – – 1.35 <1	<450 200 400 – – 0.86 <1	<450 200 400 – – 1.00 <1	<450 200 500 6500 15000 1.06 <1	<450 200 125 – – 1.45 <1	<450 200 100 – – 1.35 <1	<450 200 125 – – 1.35 <1	<450 200 100 – – 0.96 <1	<450 200 100 – – 1.15 <1
BW	<450 200 450 – – 1.00 <1	<450 200 450 – – 1.25 <1	<450 200 550 6500 9500 1.01 <1	<450 200 500 – – 0.80 <1	<450 200 500 – – 1.64 <1	<450 200 100 – – 0.77 <1	<450 200 100 6500 3000 0.64 <1	<450 200 200 – – 0.82 <1	<450 200 250 6500 3500 1.16 <1	<450 200 200 – – 0.94 <1
BV	<450 200 450 – – 1.66 <1	<450 200 550 – – 1.45 <1	<450 200 500 – – 1.88 <1	<450 200 550 6500 12500 1.24 <1	<450 200 450 – – 1.56 <1	<450 200 200 – – 1.58 <1	<450 200 100 – – 1.53 <1	<450 200 200 6500 4000 1.22 <1	<450 200 150 – – 1.53 <1	<450 200 125 – – 1.20 <1
BU	<450 200 500 – – 1.18 <1	<450 200 500 6500 10000 1.51 <1	<450 200 500 – – 1.44 <1	<450 200 500 – – 1.03 <1	<450 200 400 – – 1.12 <1	<450 200 100 6500 5000 1.08 <1	<450 200 100 – – 0.99	<450 200 150 – – 0.87	<450 200 150 – – 0.90	<450 200 250 6500 3500 0.88
BT	<450 200 400 – – 1.46 <1	<450 200 500 – – 2.11 <1	<450 200 500 – – 2.76 <1	<450 200 500 – – 1.57 <1	<450 200 500 6500 10000 3.15 <1	<450 200 200 – – 1.59 <1	<450 200 100 6500 4000 0.57	<450 200 100 – – 0.59	<450 200 100 – – 0.66	<450 200 100 – – 0.84
BS	<450 200 450 – – 2.09 <1	<450 200 450 6500 15000 1.86 <1	<450 200 500 – – 2.48 <1	<450 200 550 – – 2.73 <1	<450 200 550 – – 2.46 <1	<450 200 250 6500 8000 0.57	<450 200 125 – – 0.70	<450 200 100 – – 0.67	<450 200 100 6500 4000 0.69	<450 200 125 – – 0.62
BR	<450 200 450 – – 1.20 <1	<450 200 450 – – 1.81 <1	<450 200 500 – – 1.75 <1	<450 200 450 – – 3.17 <1	<450 200 350 6500 9000 2.54 <1	<450 200 150 – – 0.94	<450 200 125 – – 1.32 <1	<450 200 125 6500 3500 1.13 <1	<450 200 125 – – 1.12 <1	<450 200 100 – – 0.86
BQ	<450 200 450 6500 12500 2.34 <1	<450 200 600 – – 2.96 <1	<450 200 450 – – 1.57 <1	<450 200 500 – – 1.74 <1	<450 200 550 – – 1.71 <1	<450 200 250 6500 4000 0.79	<450 200 100 – – 0.71	<450 200 100 – – 0.56	<450 200 150 – – 1.23 <1	<450 200 150 6500 4000 1.09 <1
BP	<450 200 700 – – 1.78 <1	<450 200 550 – – 2.42 <1	<450 200 550 6500 15000 1.43 <1	<450 200 600 – – 1.50 <1	<450 200 625 – – 1.19 <1	<450 200 150 – – 1.32 <1	<450 200 150 – – 1.33 <1	<450 200 100 6500 3500 1.16 <1	<450 200 100 – – 0.72	<450 200 75 – – 1.37 <1
BO	<450 200 450 6500 10000 1.82 <1	<450 200 475 – – 1.59 <1	<450 200 500 – – 2.76 <1	<450 200 575 – – 1.30 <1	<450 200 475 – – 1.94 <1	<450 200 200 6500 7500 1.39 <1	<450 200 150 – – 1.08 <1	<450 200 150 – – 0.86	<450 200 200 – – 1.37 <1	<450 200 150 6500 5000 0.56

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

<450 200 150 – – 1.23 <1	<450 200 150 – – 0.76	<450 200 100 6500 3000 1.01 <1	<450 200 100 – – 1.00 <1	<450 200 100 – – 1.12 <1	<450 200 75 – – 0.95	<450 200 75 6500 3000 0.84	<450 200 75 – – 1.40 <1	<450 200 75 – – 1.17 <1	<450 200 75 – – 1.10 <1	<450 200 125 6500 3500 1.26 <1	<450 200 150 – – 1.31 <1	<450 200 150 5500 3250 1.33 <1	<450 200 125 – – 1.20 <1	<450 200 175 – – 1.84 <1	<450 200 150 – – 1.04 <1	<450 200 150 – – 0.79	<450 200 100 – – 1.01 <1	<450 200 125 – – 1.04 <1	<450 200 125 – – 0.56	CH
<450 200 100 6500 3500 1.86 <1	<450 200 100 – – 1.25 <1	<450 200 150 – – 1.13 <1	<450 200 125 – – 2.26 <1	<450 200 100 6500 3500 1.30 <1	<450 200 100 – – 1.55 <1	<450 200 100 – – 1.54 <1	<450 200 100 – – 1.20 <1	<450 200 100 – – 1.37 <1	<450 200 100 6500 3500 0.75	<450 200 100 – – 1.04 <1	<450 200 100 – – 0.77	<450 200 125 – – 0.79	<450 200 150 – – 0.61	<450 200 150 6500 3250 0.81	<450 200 150 – – 0.80	<450 200 150 6500 3500 1.34 <1	<450 200 150 – – 0.81	<450 200 150 – – 1.24 <1	<450 200 175 6500 4000 0.57	CG
<450 200 125 – – 1.38 <1	<450 200 150 – – 1.18 <1	<450 200 125 6500 3000 0.94	<450 200 125 – – 0.88	<450 200 125 – – 0.79	<450 200 100 – – 1.06 <1	<450 200 100 – – 1.25 <1	<450 200 100 – – 1.04 <1	<450 200 125 6500 3000 1.10 <1	<450 200 150 – – 0.82	<450 200 150 – – 0.56	<450 200 125 – – 0.82	<450 200 125 6500 3500 0.92	<450 200 125 – – 1.35 <1	<450 200 125 – – 1.04 <1	<450 200 125 – – 0.71	<450 200 150 6500 3500 1.02 <1	<450 200 150 – – 1.21 <1	<450 200 150 – – 1.43 <1	<450 200 150 6500 3250 1.00 <1	CF
<450 200 175 6500 3500 0.82	<450 200 125 – – 0.96	<450 200 150 – – 0.95	<450 200 125 – – 0.86	<450 200 125 6500 3250 1.27 <1	<450 200 125 – – 0.93	<450 200 150 – – 2.75 <1	<450 200 125 6500 3250 0.78	<450 200 125 – – 0.78	<450 200 100 – – 1.32 <1	<450 200 125 – – 1.05 <1	<450 200 125 – – 1.37 <1	<450 200 125 – – 0.88	<450 200 125 – – 1.32 <1	<450 200 100 5500 4000 1.40 <1	<450 200 100 – – 1.46 <1	<450 200 100 – – 1.78 <1	<450 200 100 8500 8000 1.56 <1	<450 200 150 – – 0.51	<450 200 150 – – 1.31 <1	CE
<450 200 125 – – 1.38 <1	<450 200 125 6500 3500 1.26 <1	<450 200 125 – – 1.06 <1	<450 200 125 – – 0.74	<450 200 125 – – 0.77	<450 200 125 – – 1.25 <1	<450 200 125 6500 3500 0.62	<450 200 125 – – 1.09 <1	<450 200 125 – – 0.77	<450 200 150 6500 3500 0.65	<450 200 125 – – 1.51 <1	<450 200 125 6500 3500 1.72 <1	<450 200 100 – – 1.41 <1	<450 200 100 6500 3500 1.26 <1	<450 200 125 – – 1.55 <1	<450 200 150 – – 1.09 <1	<450 200 100 – – 2.10 <1	<450 200 150 – – 1.13 <1	<450 200 175 – – 1.14 <1	<450 200 125 – – 1.45 <1	CD
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<450 200 125 – – 0.77	<450 200 125 – – 1.17 <1	<450 200 100 6500 3250 1.06 <1	<450 200 150 – – 1.23 <1	<450 200 125 – – 1.26 <1	<450 200 125 – – 0.87	<450 200 150 – – 0.96	<450 200 150 – – 1.24 <1	<450 200 150 – – 1.13 <1	<450 200 150 6500 3750 1.47 <1	<450 200 100 6500 3000 1.08 <1	<450 200 100 – – 1.25 <1	<450 200 100 – – 0.86	<450 200 100 – – 1.33 <1	<450 200 100 – – 1.51 <1	<450 200 100 – – 1.64 <1	<450 200 100 – – 1.68 <1	<450 200 150 – – 1.65 <1	<450 200 100 – – 1.33 <1	<450 200 150 6500 3000 1.35 <1	CB
<450 200 150 6500 3750 0.93	<450 200 150 – – 1.28 <1	<450 200 100 – – 0.75	<450 200 100 – – 0.65	<450 200 100 6500 3000 1.15 <1	<450 200 100 – – 1.52 <1	<450 200 100 – – 0.96	<450 200 100 6500 3000 0.97	<450 200 100 – – 0.89	<450 200 100 – – 1.18 <1	<450 200 100 – – 0.86	<450 200 100 – – 0.93	<450 200 100 6500 3000 1.15 <1	<450 200 100 – – 1.6* <1	<450 200 150 – – 1.83 <1	<450 200 100 6500 3000 1.66 <1	<450 200 100 – – 1.32 <1	<450 200 100 5500 3000 1.14 <1	<450 200 100 – – 0.92	<450 200 200 – – 1.89 <1	CA
<450 200 125 – – 1.33 <1	<450 200 150 – – 9.48 <1	<450 200 150 6500 3250 0.92	<450 200 100 – – 0.91	<450 200 100 – – 1.18 <1	<450 200 100 – – 0.95	<450 200 100 – – 1.19 <1	<450 200 100 – – 0.65	<450 200 75 6500 3250 0.47	<450 200 75 – – 1.09 <1	<450 200 150 – – 1.48 <1	<450 200 150 – – 1.26 <1	<450 200 150 6500 3000 1.27 <1	<450 200 150 – – 0.87 <1	<450 200 150 – – 1.65 <1	<450 200 150 – – 1.49 <1	<450 200 150 6500 3000 1.10 <1	<450 200 150 – – 1.42 <1	<450 200 150 – – 0.89	<450 200 200 – – 1.48 <1	BZ
<450 200 150 6500 3000 1.15 <1	<450 200 150 – – 0.55	<450 200 150 – – 0.98	<450 200 125 – – 1.22 <1	<450 200 125 6500 3000 0.95	<450 200 125 – – 1.34 <1	<450 200 150 – – 1.22 <1	<450 200 100 – – 1.27 <1	<450 200 100 – – 0.76	<450 200 100 6500 3500 1.38 <1	<450 200 100 6500 3500 0.87	<450 200 125 – – 0.71	<450 200 150 – – 1.21 <1	<450 200 150 – – 1.41 <1	<450 200 150 6500 3500 1.31 <1	<450 200 100 – – 0.94	<450 200 200 – – 1.93 <1	<450 200 50 – – 1.45 <1	<450 200 100 – – 1.42 <1	<450 200 200 6500 3500 1.50 <1	BY
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Sample Data

<450 – IM-247/PD Results [μμCv/20cm²]
200 – IM-253/PD (HV-1 PHA) [cpg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [cpg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

	30	29	28	27	26	25	24	23	22	21
CH	<450 200 150 – – 1.66 <1	<450 200 150 – – 0.84	<450 200 150 – – <0.37	<450 200 150 6500 4000 0.83	<450 200 175 – – 0.39	<450 200 150 – – 0.60	<450 200 150 – – 0.93	<450 200 175 6500 3000 1.02 <1	<450 200 175 – – 0.80	<450 200 150 – – 0.88
CG	<450 200 100 – – 0.65	<450 200 125 6500 3500 1.26 <1	<450 200 125 – – <0.43	<450 200 125 – – 0.99	<450 200 100 – – 0.90	<450 200 125 6500 3500 <0.45	<450 200 100 – – 0.68	<450 200 125 – – 0.77	<450 200 125 – – 0.97	<450 200 125 6500 3000 0.73
CF	<450 200 200 6500 4750 4.78 <1	<450 200 150 – – 0.95	<450 200 175 – – 0.87	<450 200 175 – – 1.30 <1	<450 200 150 – – 1.30 <1	<450 200 125 6500 3500 0.76	<450 200 150 – – 0.96	<450 200 150 – – 1.08 <1	<450 200 125 6500 3750 1.24 <1	<450 200 125 – – 1.72 <1
CE	<450 200 500 – – 1.50 <1	<450 200 500 – – 0.82	<450 200 500 – – 2.27 <1	<450 200 500 – – 3.49 <1	<450 200 500 6500 9500 1.35 <1	<450 200 125 – – 1.31 <1	<450 200 125 – – <0.47	<450 200 150 6500 3500 0.45	<450 200 150 – – 0.86	<450 200 175 – – 1.25 <1
CD	<450 200 600 – – 1.01 <1	<450 200 550 – – 0.82	<450 200 525 – – 2.36 <1	<450 200 650 – – 1.73 <1	<450 200 450 6500 10000 1.42 <1	<450 200 175 – – 1.00 <1	<450 200 125 – – 0.64	<450 200 150 – – 1.14 <1	<450 200 150 6500 3750 0.81	<450 200 150 – – 1.29 <1
CC	<450 200 450 – – 1.49 <1	<450 200 500 – – 0.77	<450 200 450 6500 8500 2.58 <1	<450 200 450 – – 1.97 <1	<450 200 450 – – 1.48 <1	<450 200 200 – – 1.15 <1	<450 200 150 6500 4000 1.33 <1	<450 200 150 – – 1.34 <1	<450 200 150 – – 1.14 <1	<450 200 150 6500 4000 1.39 <1
CB	<450 200 625 – – 1.11 <1	<450 200 575 6500 12000 0.80	<450 200 650 – – 1.87 <1	<450 200 625 – – 2.03 <1	<450 200 575 – – 1.09 <1	<450 200 150 6500 3250 1.23 <1	<450 200 150 – – 0.53	<450 200 150 – – 0.74	<450 200 125 – – 0.84	<450 200 150 – – 1.26 <1
CA	<450 200 650 – – <0.47	<450 200 500 – – 1.81 <1	<450 200 475 – – 5.78 <1	<450 200 500 6500 9500 1.55 <1	<450 200 500 – – 2.11 <1	<450 200 200 – – 1.99 <1	<450 200 100 6500 3500 2.75 <1	<450 200 100 – – 1.08 <1	<450 200 125 6500 3250 <0.47	<450 200 150 – – 1.19 <1
BZ	<450 200 500 6500 12500 1.74 <1	<450 200 500 – – 1.39 <1	<450 200 500 – – 1.43 <1	<450 200 450 – – 1.63 <1	<450 200 475 – – 2.12 <1	<450 200 225 6500 5250 1.32 <1	<450 200 100 – – 1.31 <1	<450 200 125 – – 1.19 <1	<450 200 75 – – 2.05 <1	<450 200 75 6500 3250 1.80 <1
BY	<450 200 525 – – 1.55 <1	<450 200 475 – – 0.80	<450 200 575 6500 12500 1.47 <1	<450 200 500 – – 1.46 <1	<450 200 575 – – 1.63 <1	<450 200 275 – – 1.00 <1	<450 200 150 – – 1.00 <1	<450 200 150 6500 3250 0.60	<450 200 125 – – 1.26 <1	<450 200 100 – – 1.33 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
<450 200 100 6500 3500 1.02 <1	<450 200 150 – – 0.77	<450 200 100 – – 0.57	<450 200 100 – – 1.31 <1	<450 200 100 6500 4000 1.67 <1	<450 200 125 – – 0.70	<450 200 100 – – 1.32 <1	<450 200 150 – – 0.75	<450 200 100 – – 0.92	<450 200 100 6500 3500 0.76	<450 200 150 6500 3500 1.06 <1	<450 200 100 – – 0.61	<450 200 100 – – 0.87	<450 200 150 – – 1.13 <1	<450 200 150 – – 0.70	<450 200 100 6500 3500 1.01 <1	<450 200 100 – – 1.33 <1	<450 200 100 – – 1.14 <1	<450 200 100 – – 0.91	<450 200 200 6500 5000 1.14 <1	CR
<450 200 100 – – 1.00 <1	<450 200 100 – – 2.04 <1	<450 200 100 6500 3500 1.12 <1	<450 200 100 – – 1.36 <1	<450 200 125 – – 0.85	<450 200 100 – – 1.57 <1	<450 200 125 6500 3500 1.08 <1	<450 200 150 – – 1.06 <1	<450 200 100 – – 1.21 <1	<450 200 150 – – 0.65	<450 200 100 – – 0.90	<450 200 100 – – 1.26 <1	<450 200 150 – – 0.66	<450 200 125 6500 3500 0.81	<450 200 100 – – 1.22 <1	<450 200 125 – – 1.07 <1	<450 200 150 – – 1.33 <1	<450 200 100 6500 3500 1.83 <1	<450 200 100 – – 0.75	<450 200 100 – – 1.55 <1	CQ
<450 200 100 – – 0.85	<450 200 100 – – 0.94	<450 200 100 6500 4000 1.47 <1	<450 200 100 – – 1.40 <1	<450 200 100 – – 1.14 <1	<450 200 100 – – 0.95	<450 200 100 – – 3.02 <1	<450 200 100 – – 1.30 <1	<450 200 100 – – 0.62	<450 200 100 6500 4000 0.90	<450 200 100 – – 0.50	<450 200 100 – – <0.36	<450 200 100 6500 4000 0.50	<450 200 100 – – 0.52	<450 200 100 – – 0.49	<450 200 100 – – 1.70 <1	<450 200 100 6500 5000 0.91	<450 200 100 – – 1.28 <1	<450 200 100 – – 0.90	<450 200 100 – – 2.42 <1	CP
<450 200 75 6500 3000 1.25 <1	<450 200 75 – – 2.07	<450 200 75 – – 1.19 <1	<450 200 100 – – 1.24 <1	<450 200 100 6500 3500 1.22 <1	<450 200 100 – – 1.32 <1	<450 200 100 – – 1.05 <1	<450 200 100 6500 3500 1.21 <1	<450 200 100 – – 0.98	<450 200 75 – – 0.83	<450 200 75 6500 3500 0.94	<450 200 75 – – 1.08 <1	<450 200 75 – – 0.85	<450 200 75 – – 1.00 <1	<450 200 100 6500 3000 0.83	<450 200 125 – – 0.63	<450 200 100 – – 0.58	<450 200 100 – – 0.77	<450 200 100 – – 0.84	<450 200 100 6500 3000 1.43 <1	CO
<450 200 125 – – 1.16 <1	<450 200 150 6500 3750 1.06 <1	<450 200 125 – – 1.42 <1	<450 200 125 – – 0.98	<450 200 125 – – 1.10 <1	<450 200 100 6500 4000 1.04 <1	<450 200 125 – – 1.05 <1	<450 200 125 – – 0.59	<450 200 125 – – 1.12 <1	<450 200 150 6500 3500 1.23 <1	<450 200 150 – – 1.55 <1	<450 200 175 6500 3250 1.09 <1	<450 200 150 – – 1.00 <1	<450 200 125 6500 3000 1.47 <1	<450 200 125 – – 1.82 <1	<450 200 125 – – 1.39 <1	<450 200 125 – – 1.22 <1	<450 200 150 – – 1.44 <1	<450 200 150 – – 0.91	<450 200 125 – – 1.62 <1	CN
<450 200 150 – – 1.19 <1	<450 200 150 – – 0.87	<450 200 125 – – 1.31 <1	<450 200 125 6500 3500 1.14 <1	<450 200 125 – – 2.75 <1	<450 200 125 – – 0.87	<450 200 100 6500 3250 1.24 <1	<450 200 125 – – 0.75	<450 200 125 – – 0.78	<450 200 125 – – 0.99	<450 200 125 – – 1.21 <1	<450 200 125 – – 0.81	<450 200 125 – – 0.78	<450 200 125 – – 0.75	<450 200 100 – – 1.80 <1	<450 200 125 6500 3250 1.93 <1	<450 200 100 – – 1.05 <1	<450 200 125 6500 3500 0.98	<450 200 125 – – 1.19 <1	<450 200 175 6500 3500 1.38 <1	CM
<450 200 125 – – 0.76	<450 200 125 – – 0.90	<450 200 100 6500 3250 1.03 <1	<450 200 125 – – <0.41	<450 200 125 – – 0.84	<450 200 150 – – 0.60	<450 200 125 – – 0.51	<450 200 125 – – 0.76	<450 200 150 – – 0.99	<450 200 150 6500 3500 0.91	<450 200 125 – – 1.50 <1	<450 200 125 – – 1.89 <1	<450 200 125 – – 2.02 <1	<450 200 150 – – 1.32 <1	<450 200 175 – – 1.39 <1	<450 200 150 – – 1.00 <1	<450 200 125 6500 3500 1.10 <1	<450 200 125 6500 3500 1.4 <1	<450 200 125 – – 0.95	<450 200 100 – – 1.82 <1	CL
<450 200 100 6500 2750 0.56	<450 200 125 – – 0.61	<450 200 125 – – 1.52 <1	<450 200 125 – – 1.12 <1	<450 200 150 6500 3000 1.09 <1	<450 200 125 – – 1.00 <1	<450 200 100 – – 1.72 <1	<450 200 150 6500 3000 1.36 <1	<450 200 150 – – 1.08 <1	<450 200 125 – – 1.07 <1	<450 200 150 – – 1.10 <1	<450 200 150 6500 3750 2.13 <1	<450 200 175 – – 1.70 <1	<450 200 125 – – 1.97 <1	<450 200 150 – – 3.18 <1	<450 200 150 6500 3250 2.39 <1	<450 200 150 – – 0.84	<450 200 150 – – 1.09 <1	<450 200 200 – – 1.38 <1	<450 200 125 6500 2750 0.84	CK
<450 200 125 6500 3000 1.97 <1	<450 200 100 – – 0.81	<450 200 125 6500 3500 1.78 <1	<450 200 125 – – 0.58	<450 200 125 – – 1.06 <1	<450 200 100 – – 0.94	<450 200 125 – – <0.42	<450 200 125 – – 1.19 <1	<450 200 150 – – 2.25 <1	<450 200 100 – – 5.62 <1	<450 200 100 – – 0.90	<450 200 125 – – 0.93	<450 200 100 – – 0.78	<450 200 125 – – 0.81	<450 200 100 – – 0.94	<450 200 125 – – 1.44 <1	<450 200 150 6500 3750 1.22 <1	<450 200 150 – – 1.07 <1	<450 200 125 – – 1.24 <1	<450 200 150 6500 3500 1.14 <1	CJ
<450 200 125 – – 1.19 <1	<450 200 125 – – 1.25 <1	<450 200 150 – – 1.01 <1	<450 200 125 – – 0.82	<450 200 175 6500 3500 1.46 <1	<450 200 150 – – 1.24 <1	<450 200 100 6500 3500 0.80	<450 200 100 – – 1.22 <1	<450 200 125 6500 3750 1.44 <1	<450 200 150 – – 1.76 <1	<450 200 150 6500 3500 1.17 <1	<450 200 150 – – 1.69 <1	<450 200 150 6500 3500 1.38 <1	<450 200 125 – – 1.50 <1	<450 200 175 6500 3500 1.30 <1	<450 200 175 – – 0.93	<450 200 175 – – 0.88	<450 200 175 – – 1.12 <1	<450 200 150 – – 1.15 <1	<450 200 150 – – 1.10 <1	CI

Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

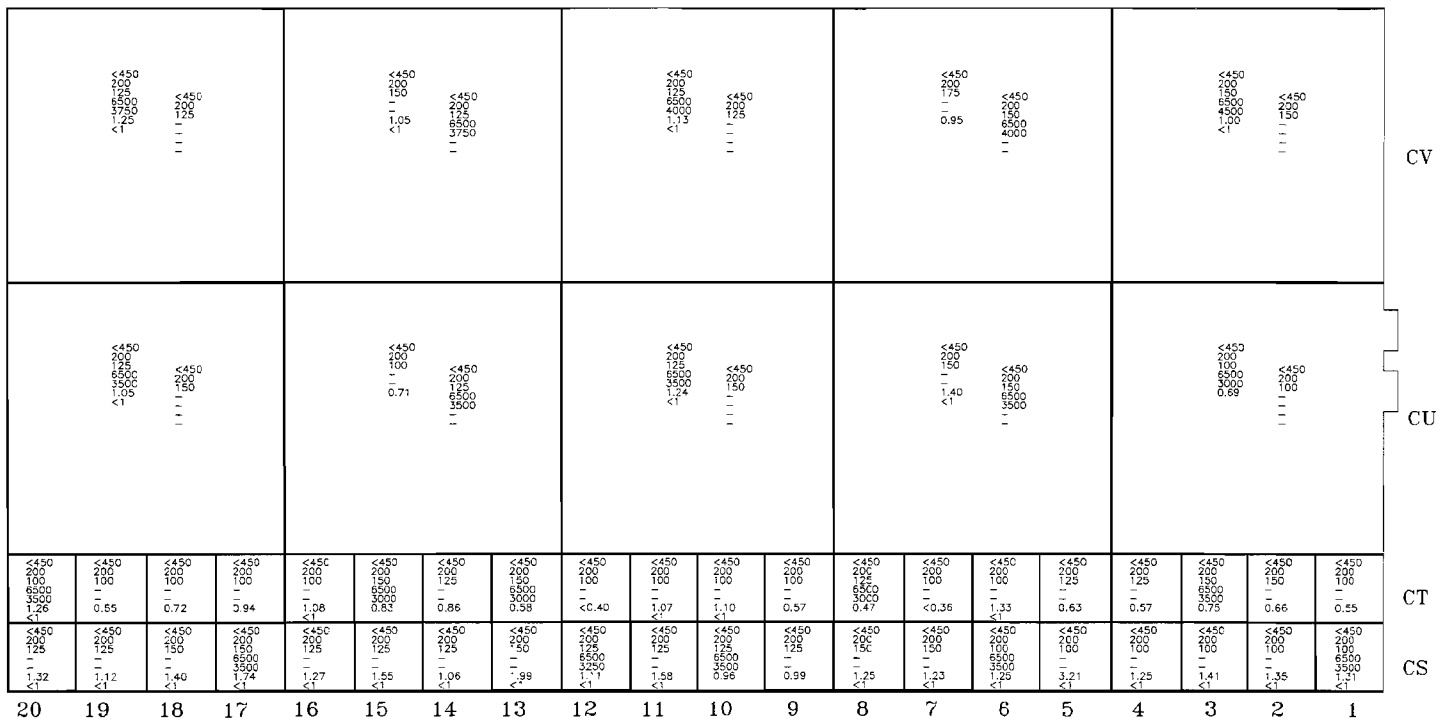
	30	29	28	27	26	25	24	23	22	21
CR	<450 200 125 – – 1.10 <1	<450 200 175 6500 3750 1.01 <1	<450 200 100 – – 1.11 <1	<450 200 125 – – 0.90	<450 200 100 – – 1.18 <1	<450 200 100 6500 3500 0.99	<450 200 125 – – 0.41	<450 200 100 – – 0.99	<450 200 100 – – 1.10 <1	<450 200 100 6500 3500 0.73
CQ	<450 200 100 6500 3500 0.45	<450 200 125 – – 0.71	<450 200 100 – – 0.69	<450 200 100 – – 0.70	<450 200 100 – – 0.85	<450 200 100 – – 0.56	<450 200 100 6500 3500 1.06 <1	<450 200 100 – – 0.55	<450 200 125 – – 0.86	<450 200 125 – – 0.99
CP	<450 200 100 – – 0.62	<450 200 100 6500 3500 0.77	<450 200 100 – – 0.67	<450 200 100 – – 0.52	<450 200 100 – – 0.71	<450 200 100 6500 3500 0.76	<450 200 100 – – 0.60	<450 200 100 – – 0.80	<450 200 100 – – 0.83	<450 200 100 6500 3500 0.62
CO	<450 200 125 – – <0.40	<450 200 150 – – 0.52	<450 200 100 – – <0.43	<450 200 100 6500 3500 8.22 <1	<450 200 100 – – 0.79	<450 200 125 – – 1.06 <1	<450 200 100 – – 1.38 <1	<450 200 75 6500 3000 2.17 <1	<450 200 75 – – 1.03 <1	<450 200 75 – – 0.82
CN	<450 200 150 – – 1.52 <1	<450 200 150 – – 1.17 <1	<450 200 125 – – 0.91	<450 200 125 6500 3750 1.42 <1	<450 200 125 – – 0.64	<450 200 125 – – 0.99	<450 200 125 – – 1.31 <1	<450 200 150 – – 1.62 <1	<450 200 150 6500 3750 1.01 <1	<450 200 150 – – 1.29 <1
CM	<450 200 150 6500 3750 0.99	<450 200 125 – – 0.81	<450 200 150 – – 0.91	<450 200 100 – – 0.82	<450 200 125 – – 0.93	<450 200 150 6500 3250 0.92	<450 200 150 – – 0.60	<450 200 125 – – 0.41	<450 200 175 – – 0.68	<450 200 125 6500 3750 0.94
CL	<450 200 75 – – 1.40 <1	<450 200 75 – – 1.09 <1	<450 200 75 6500 3500 <0.44	<450 200 100 – – 0.89	<450 200 100 – – 0.94	<450 200 100 – – 0.84	<450 200 150 6500 3500 0.45	<450 200 125 – – 0.61	<450 200 100 – – 1.14 <1	<450 200 125 – – 1.23 <1
CK	<450 200 150 6500 3000 0.46	<450 200 150 – – 0.45	<450 200 175 – – 0.49	<450 200 175 – – <0.41	<450 200 150 6500 3250 0.62	<450 200 125 – – 0.83	<450 200 125 – – <0.51	<450 200 150 6500 3000 0.71	<450 200 125 – – 1.38 <1	<450 200 100 – – 0.52
CJ	<450 200 125 – – 0.62	<450 200 100 6500 3000 2.25 <1	<450 200 125 – – 0.56	<450 200 100 – – 1.47 <1	<450 200 125 – – 0.86	<450 200 150 6500 3250 0.68	<450 200 125 – – 0.61	<450 200 100 – – 0.80	<450 200 125 – – 1.11 <1	<450 200 125 – – 0.73
CI	<450 200 100 – – 0.50	<450 200 125 – – 0.64	<450 200 100 – – 0.87	<450 200 100 6500 3500 1.28 <1	<450 200 100 – – 0.43	<450 200 100 – – 0.37	<450 200 100 6500 3500 <0.32	<450 200 100 – – 1.43 <1	<450 200 125 – – 1.21 <1	<450 200 125 6500 3500 0.71

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor

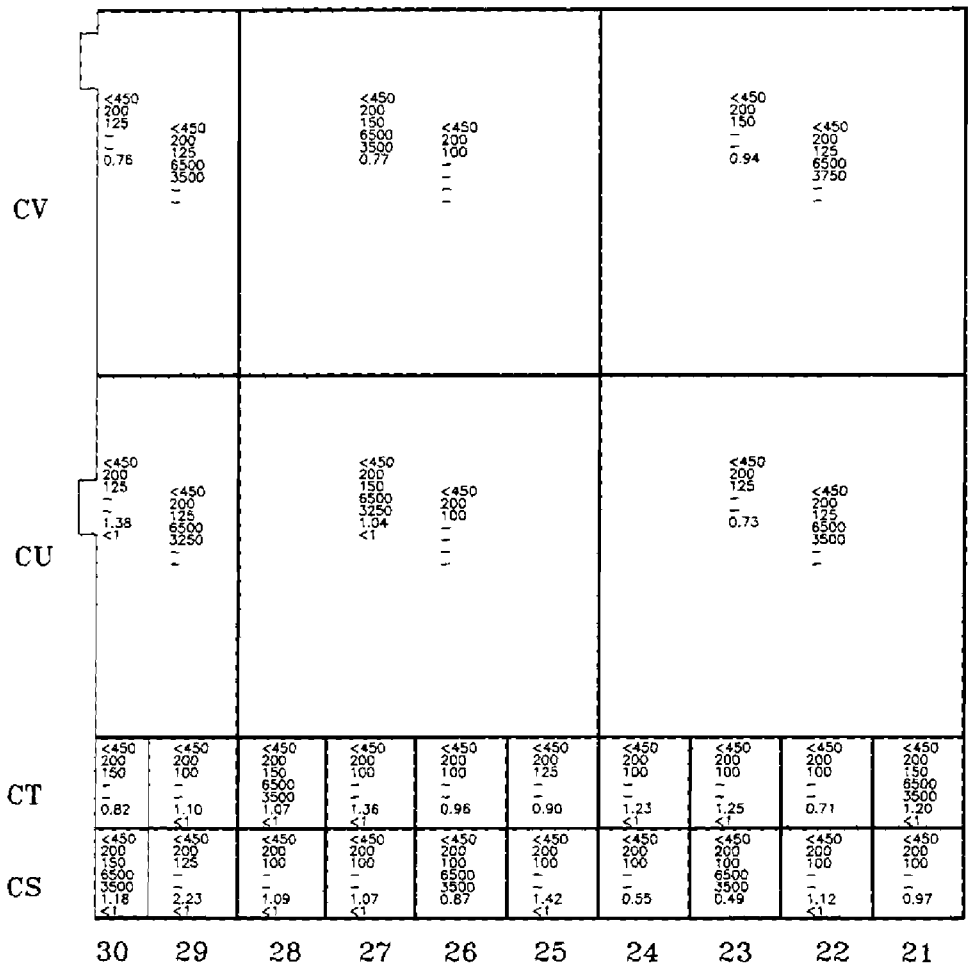


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor

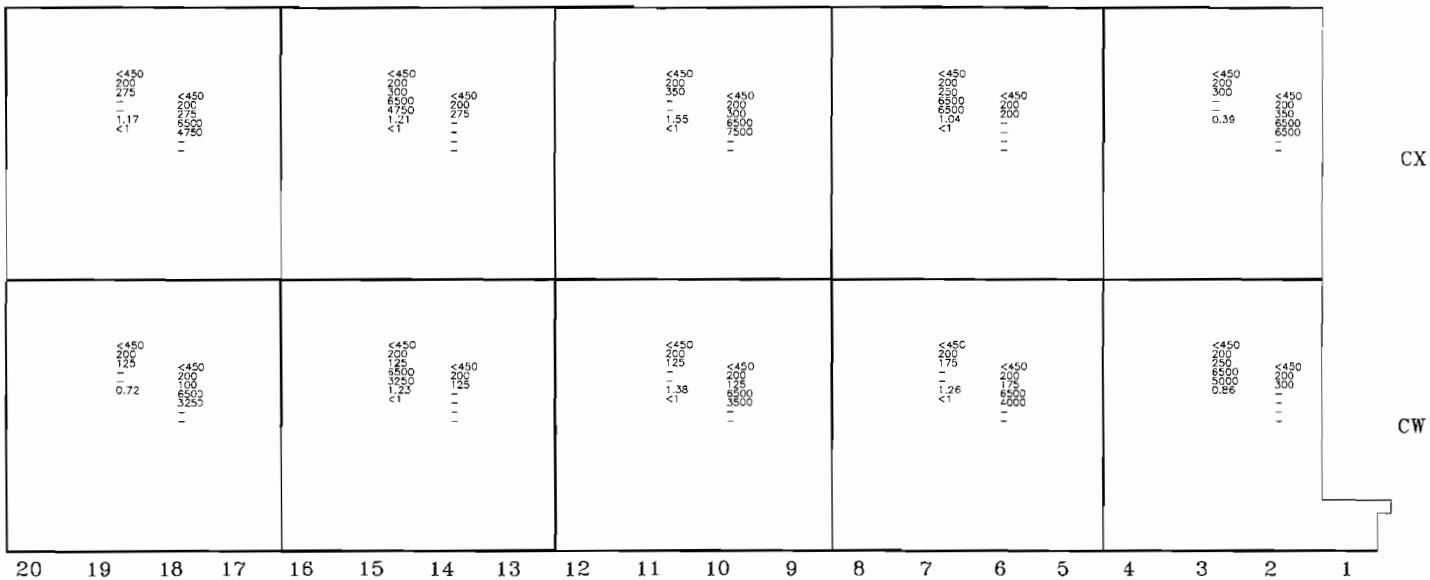


Sample Data

<450 – IM-247/PD Results (μμCi/20cm²)
200 – IM-253/PD (HV-1 PHA) (bkg.)
300 – IM-253/PD (HV-1 PHA) (cpm)
7000 – IM-253/PD (HV-2 GROSS) (bkg.)
7300 – IM-253/PD (HV-2 GROSS) (cpm)
1.82 – MCA Gross Gamma Eq. Co-60 (pCi/g)
<1 – MCA Specific Co-60 Results (pCi/g)

5. Dry Dock 5

e. Localized Grid Maps, Floor

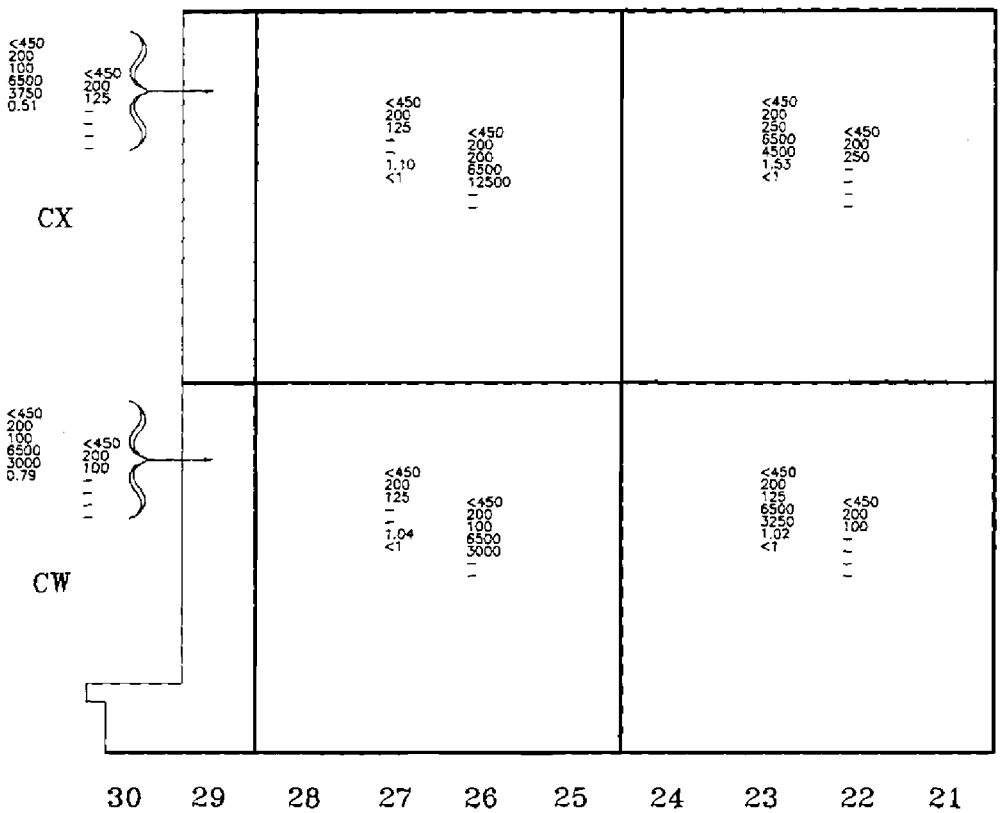


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GRCSS) [bkg.]
7300 – IM-253/PD (HV-2 GRCSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map. Floor



Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
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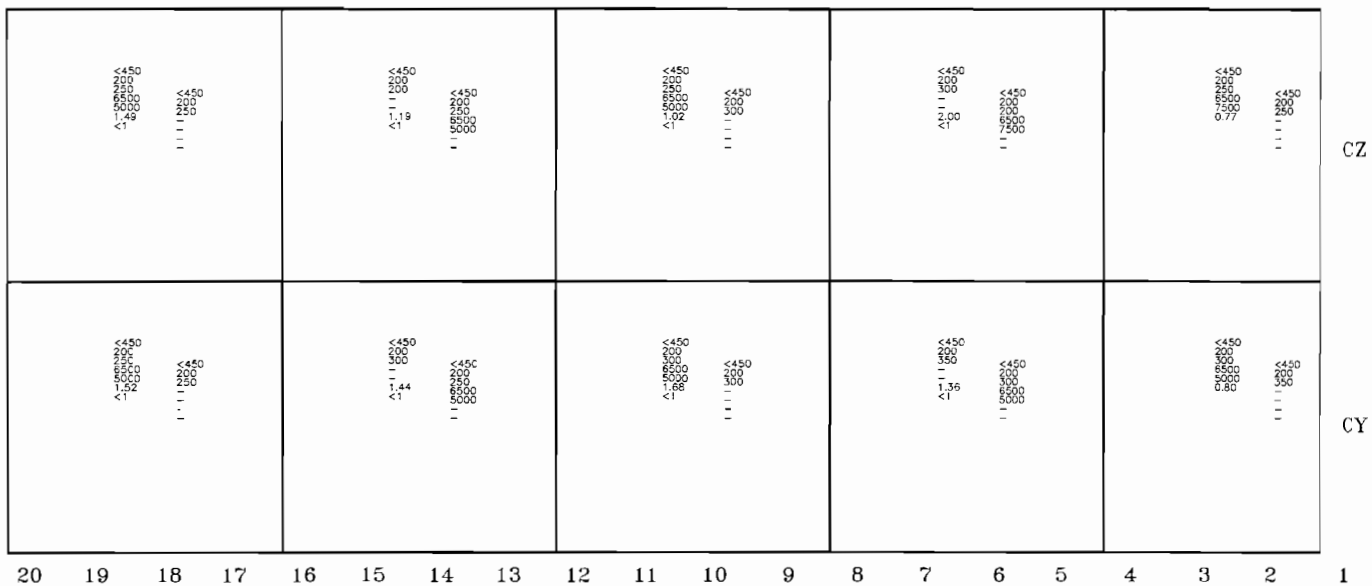
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
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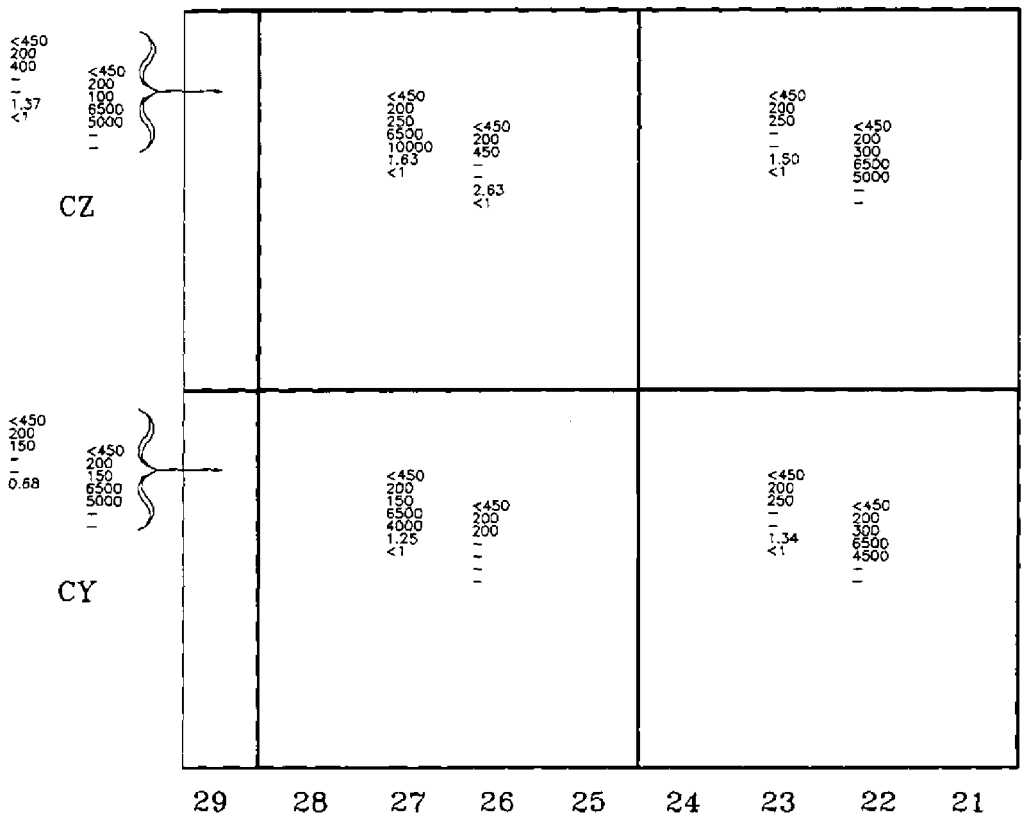
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
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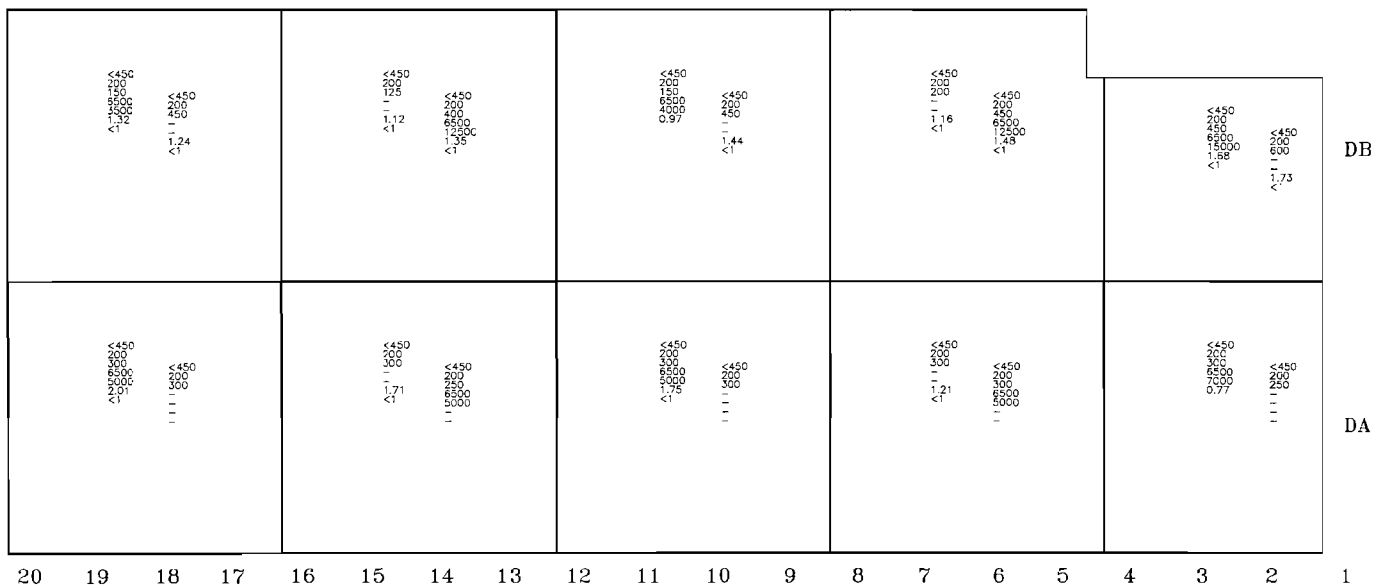
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Floor



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
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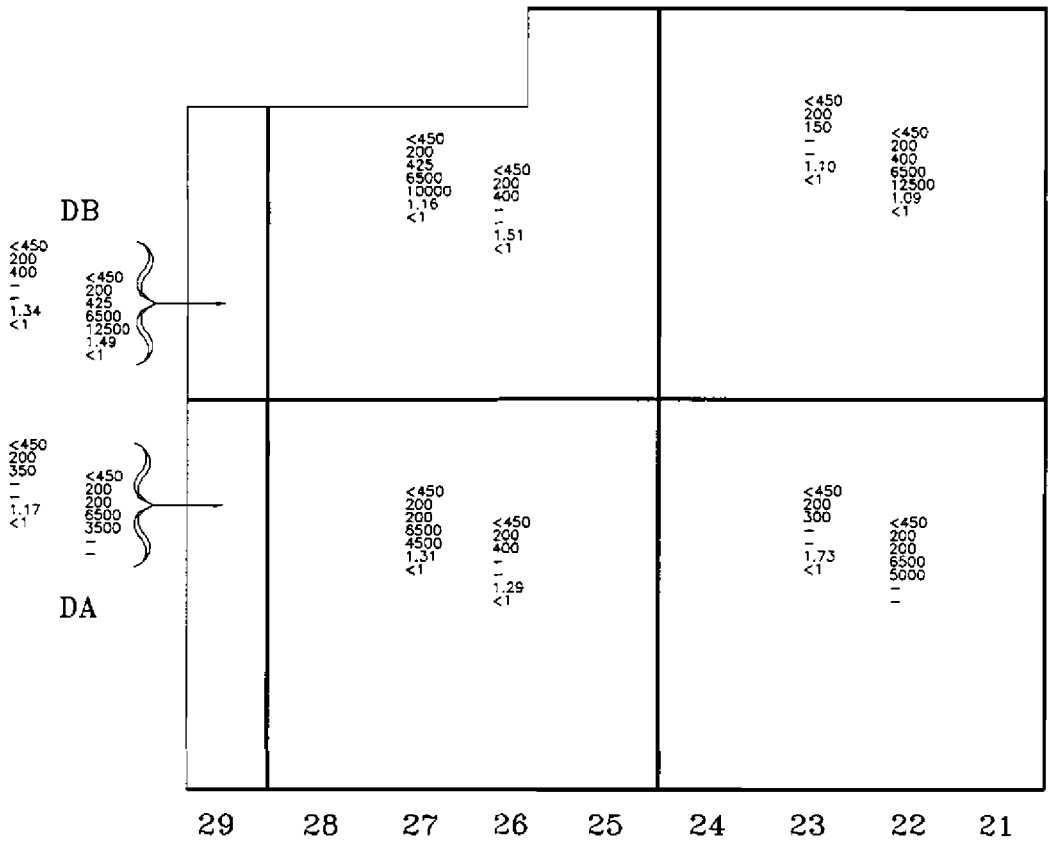
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
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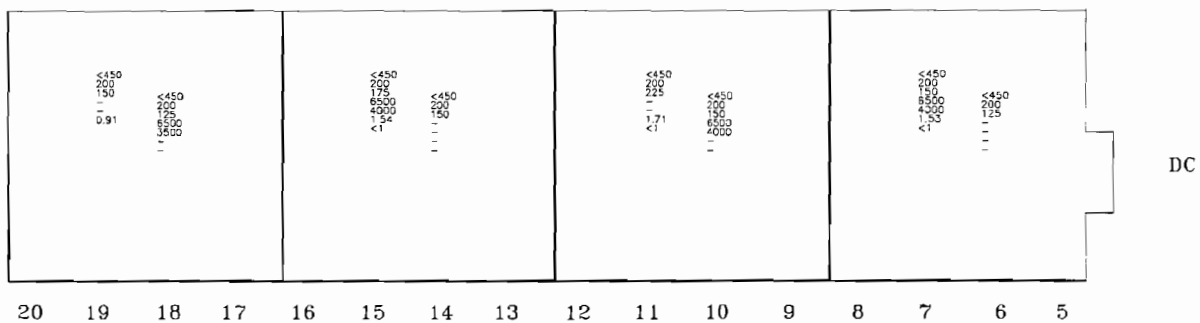
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

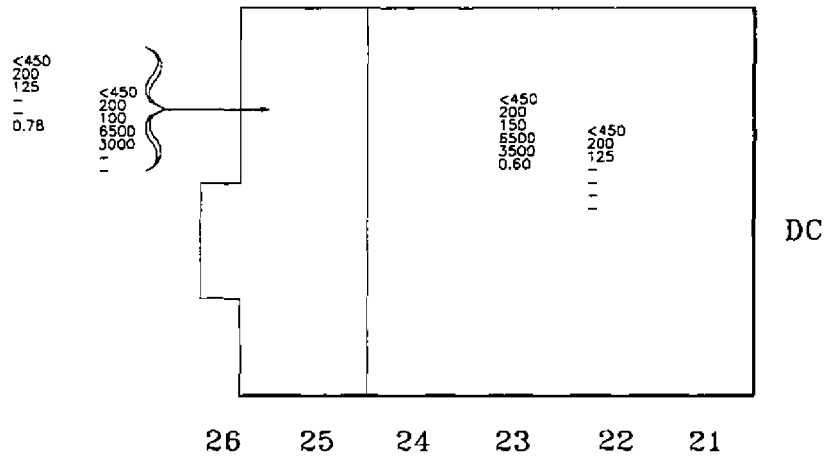
e. Localized Grid Maps, Floor



Sample Data
< 450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [b-kg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [b-kg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Floor



Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
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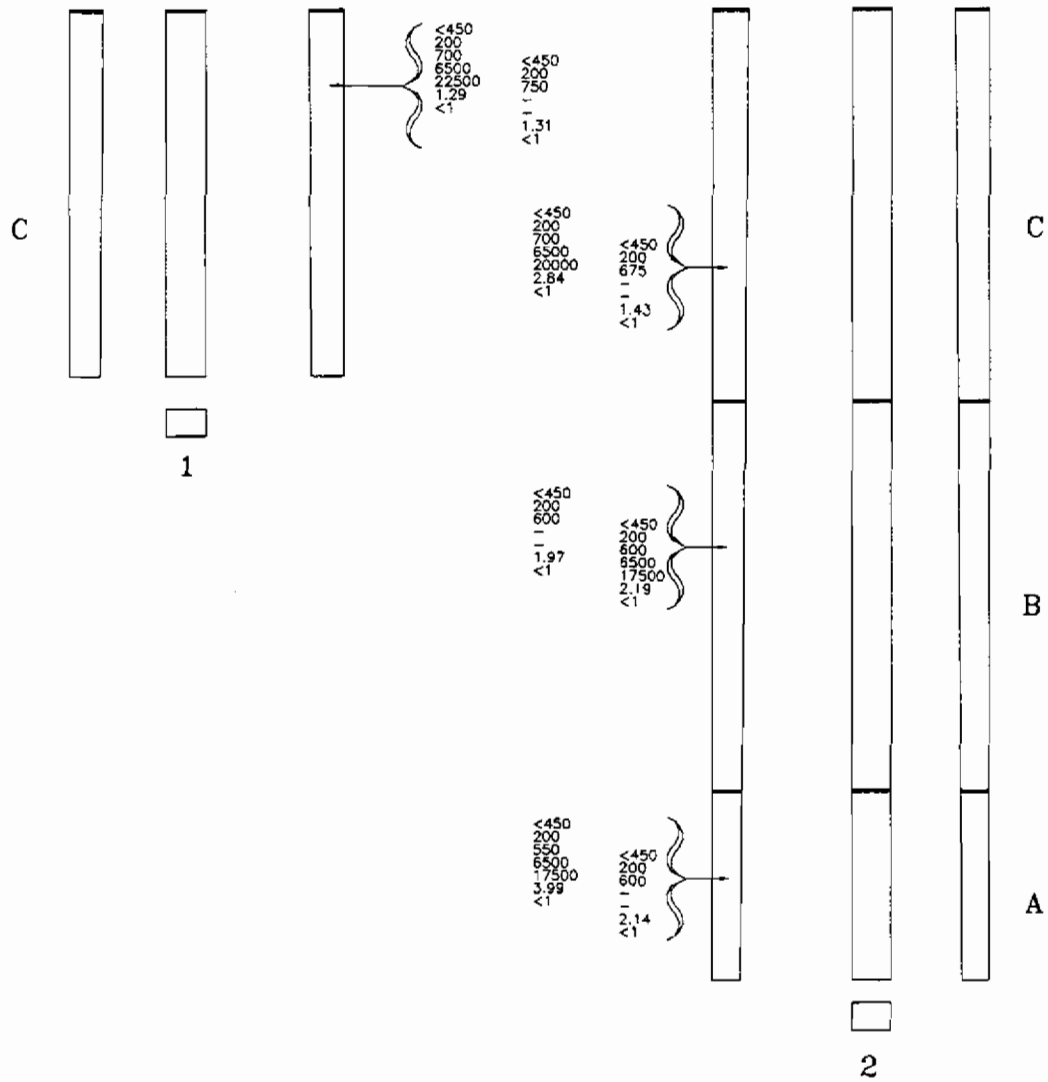
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Troughs



Note:
The data shown for each trough grid applies to the total surface area of the floor and both walls of the trough.

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
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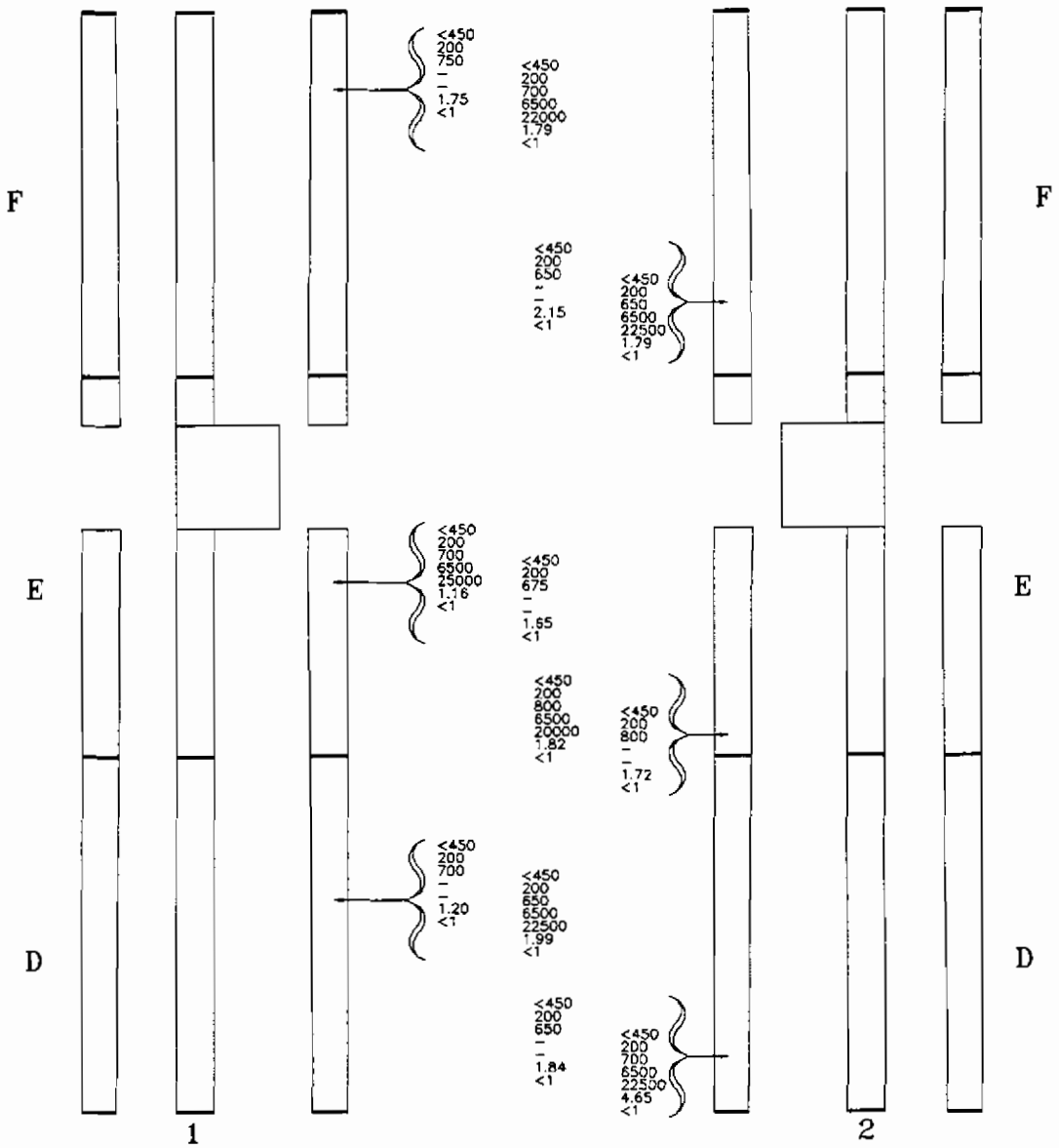
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Troughs



Note:
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Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
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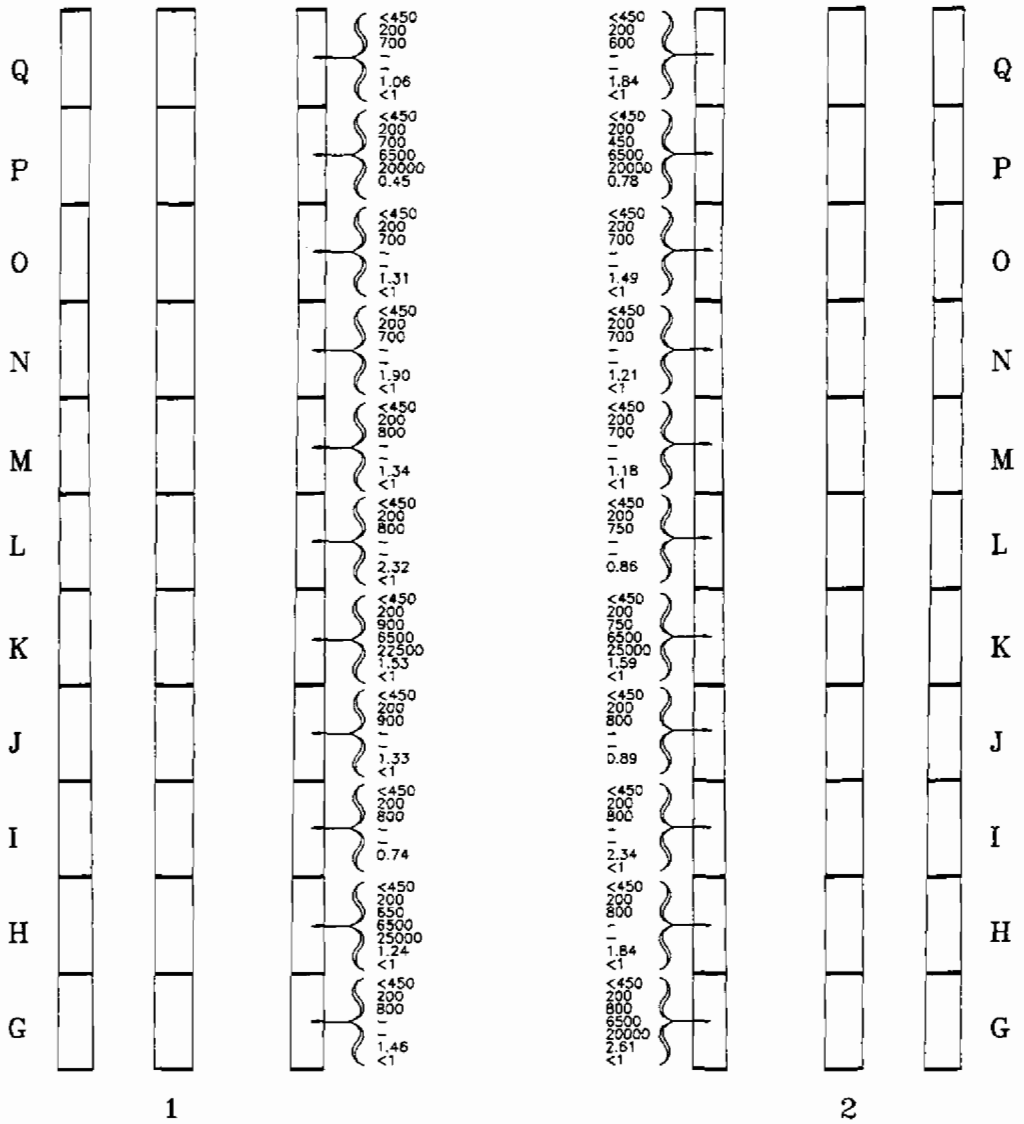
5. Dry Dock 5

e. Localized Grid Maps, Troughs



Note:
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Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
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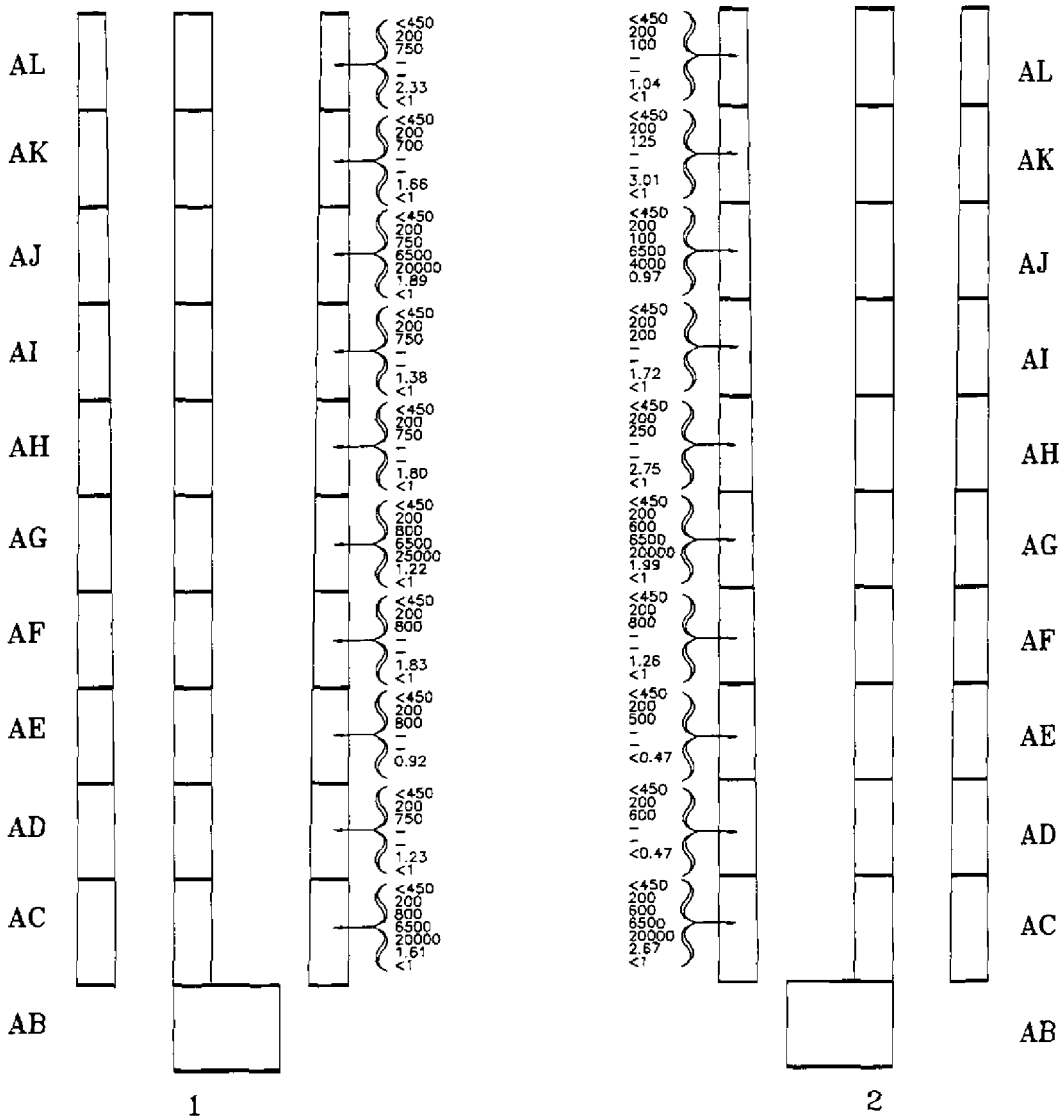
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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<450 – IM-247/PD Results [μμCi/20cm²]
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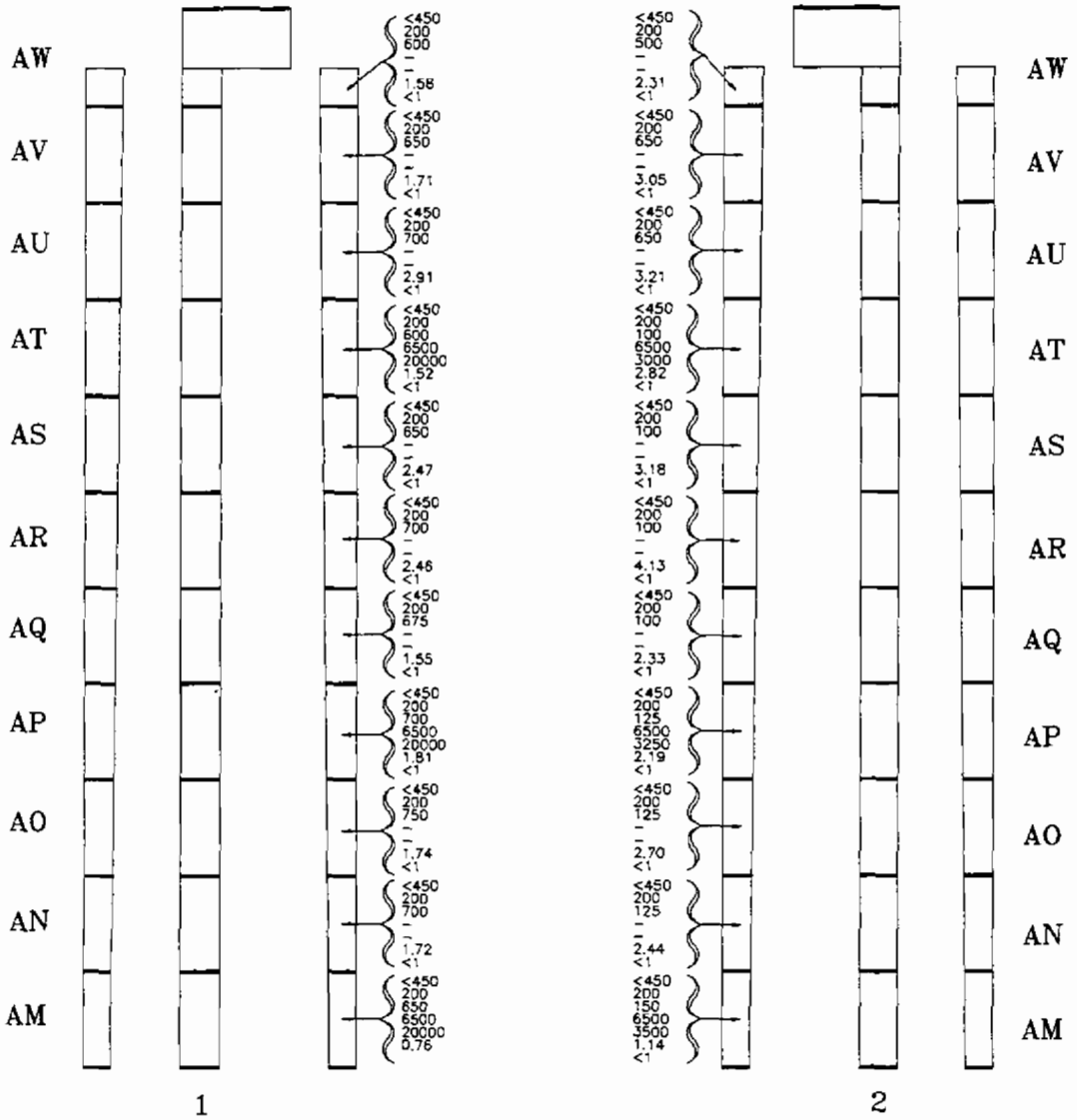
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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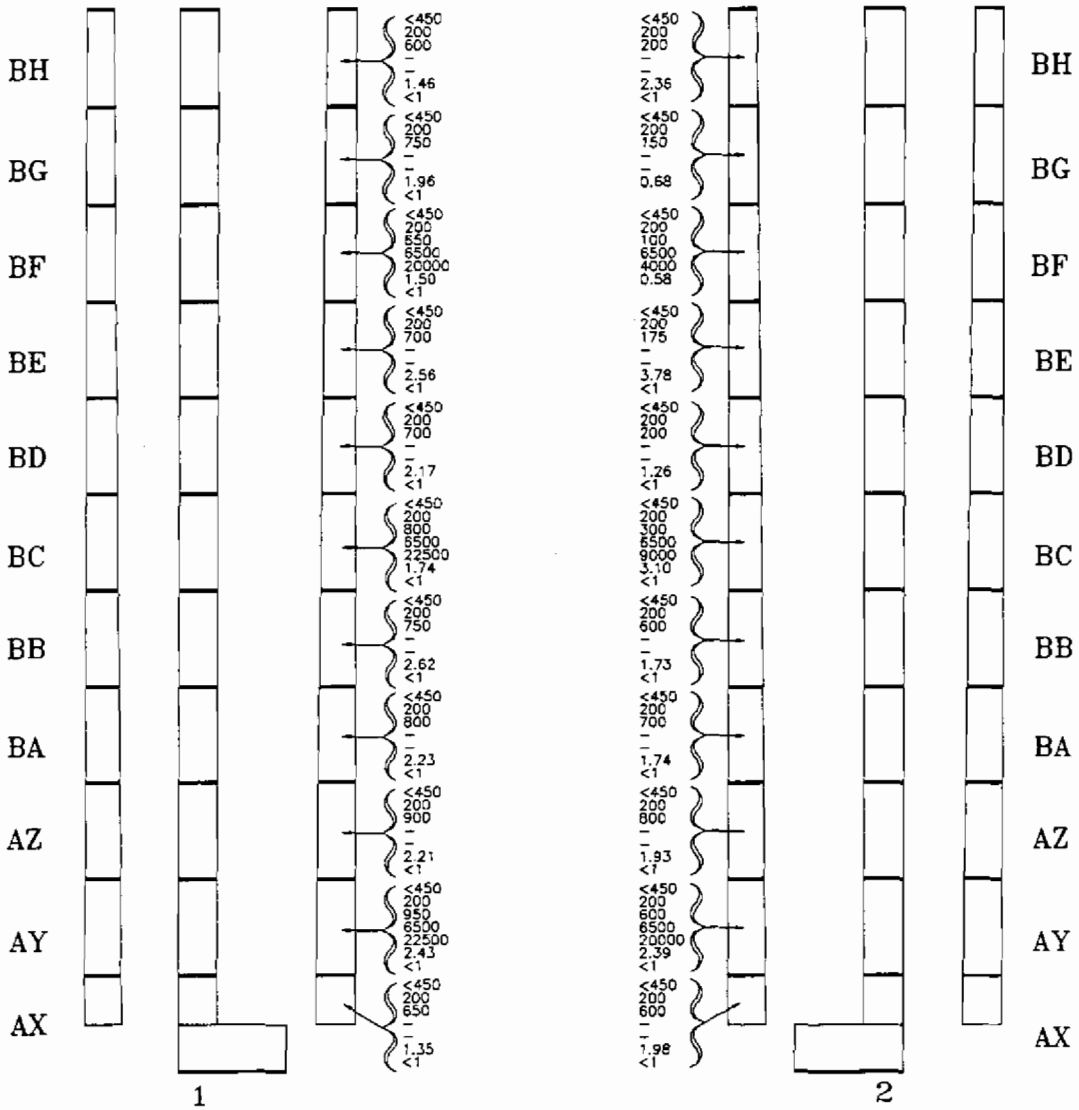
5. Dry Dock 5

e. Localized Grid Maps, Troughs



Note:
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Sample Data

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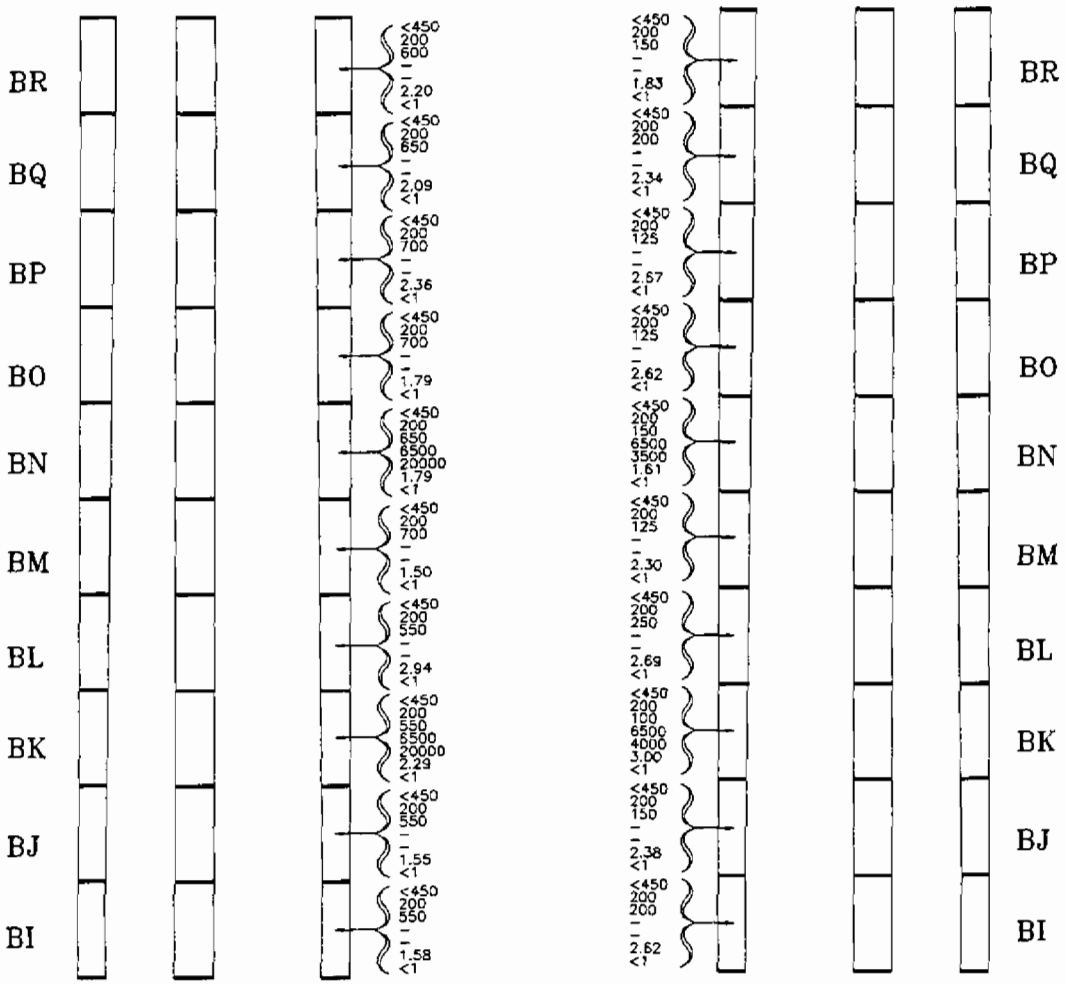
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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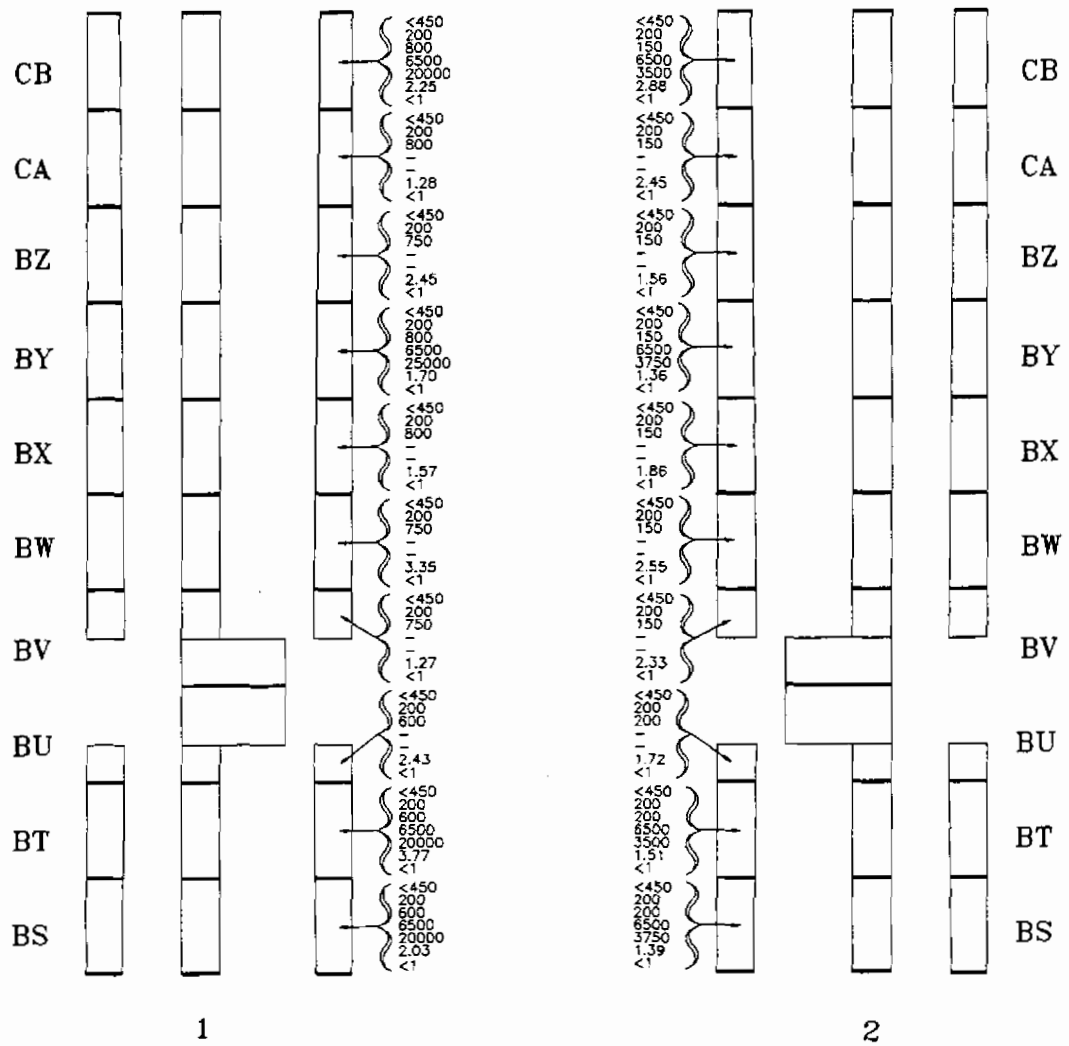
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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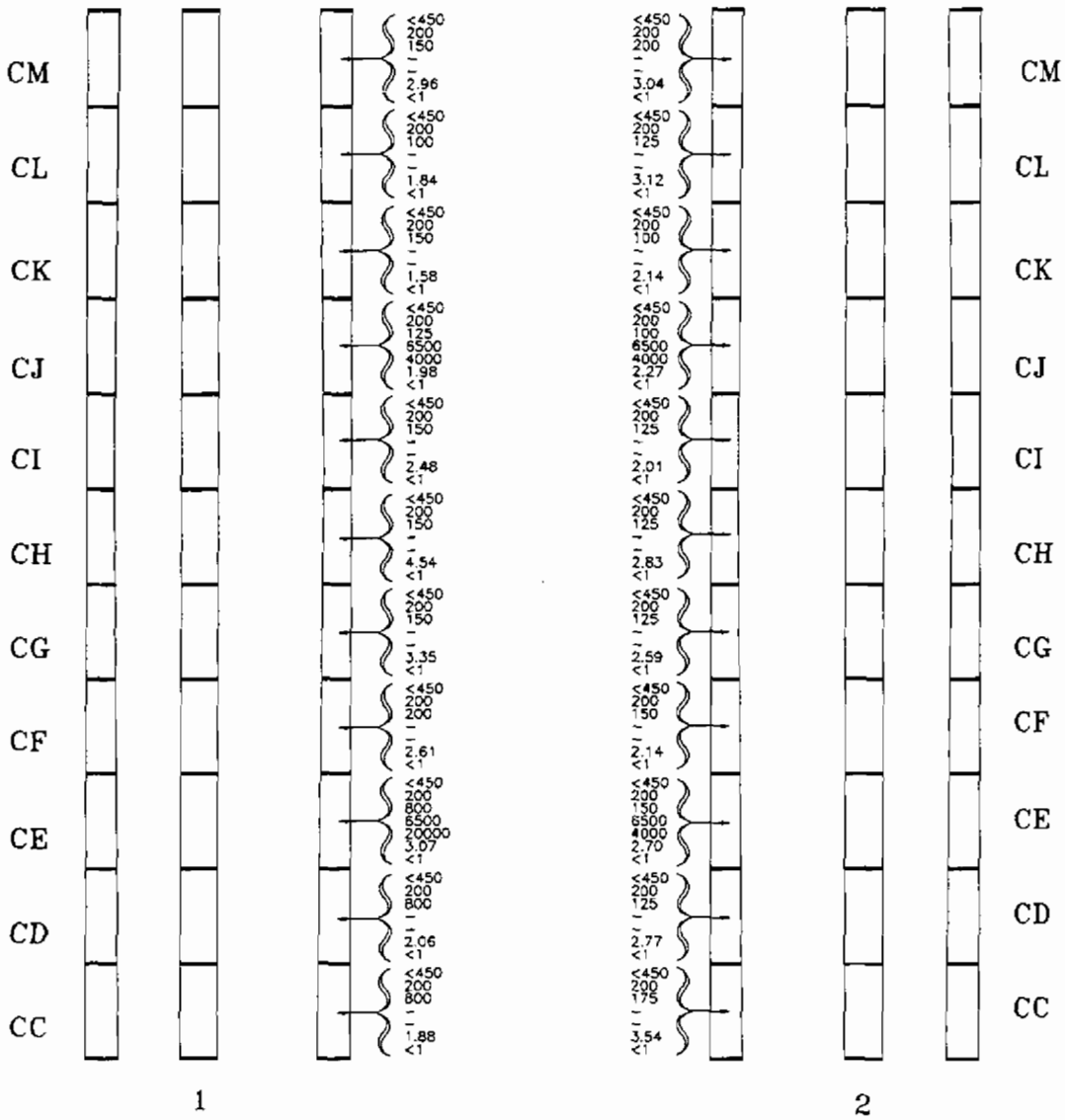
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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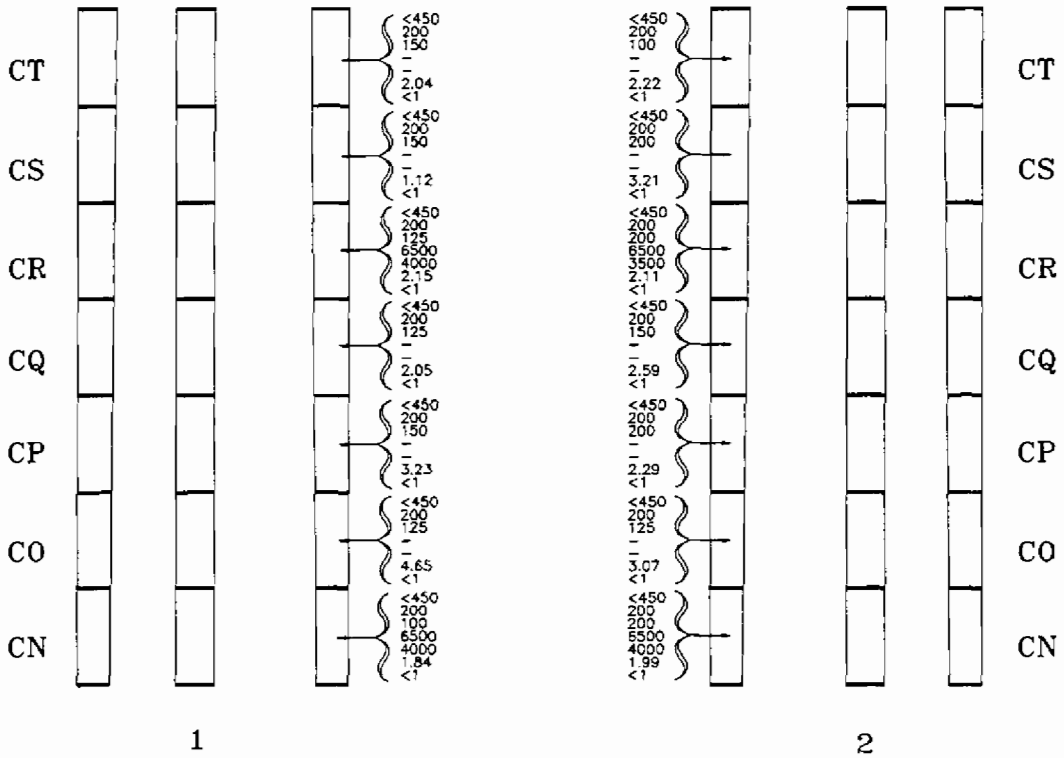
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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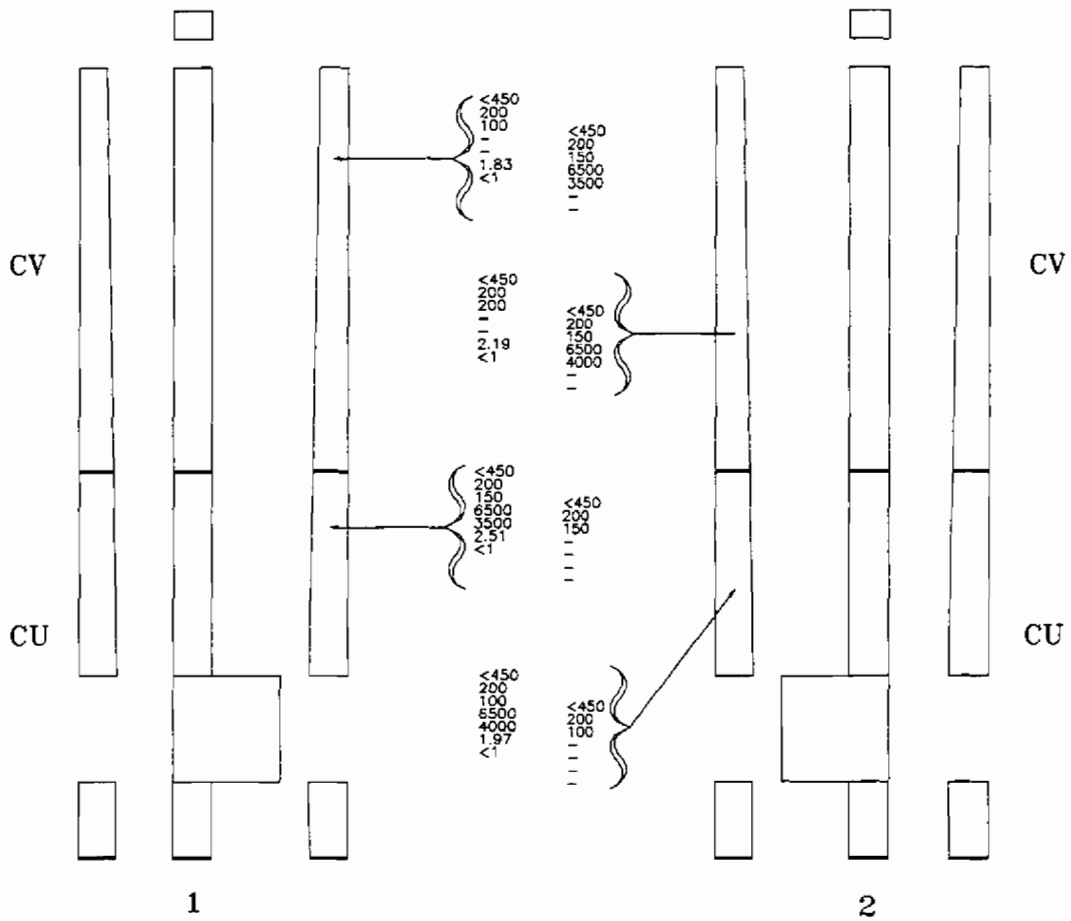
5. Dry Dock 5

e. Localized Grid Maps, Troughs



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<450 – IM-247/PD Results [μμCi/20cm²]
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1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
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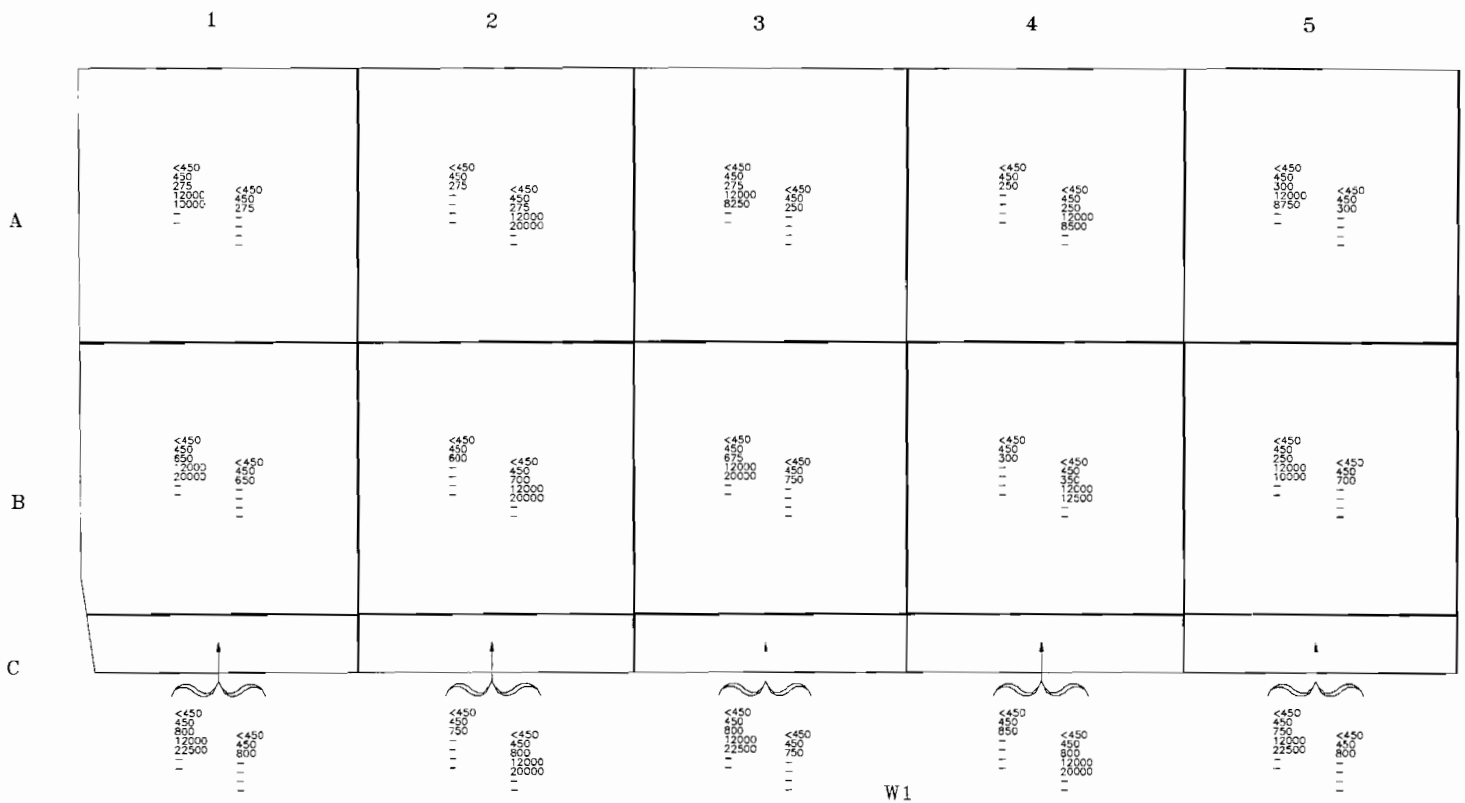
5. Dry Dock 5

e. Localized Grid Maps, West Wall



Sample Data

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200 – IM-253/PD (HV-1 PHA) [bkg.]
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1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
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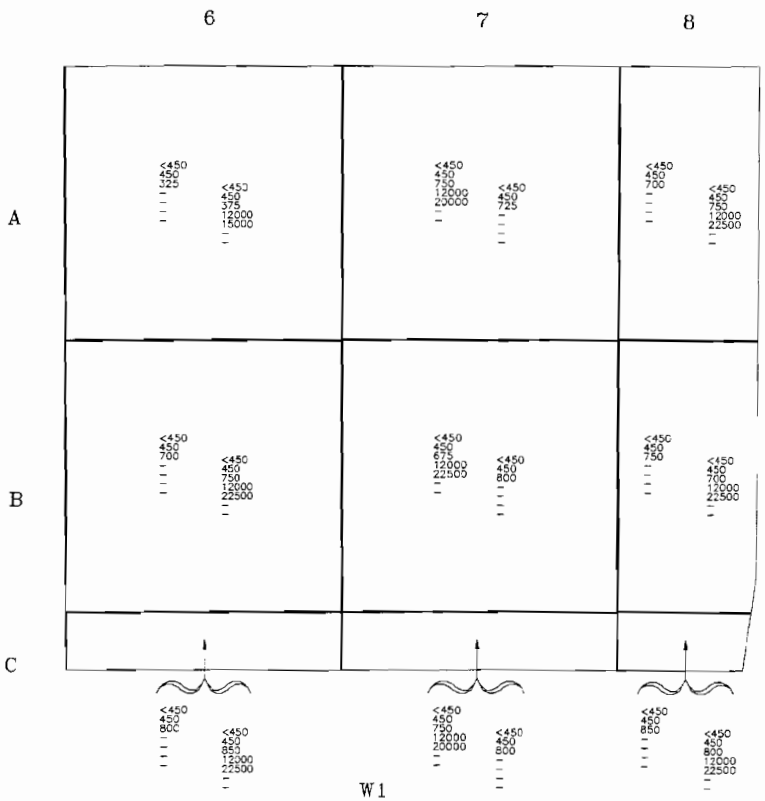
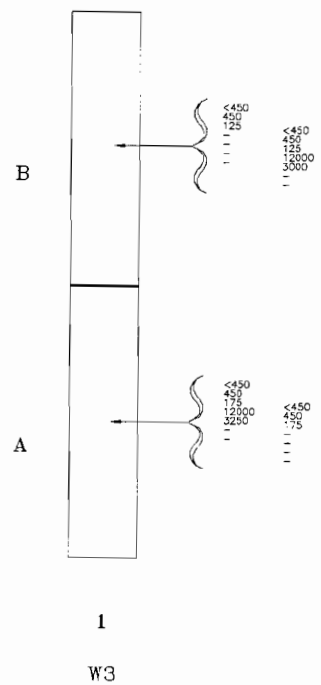
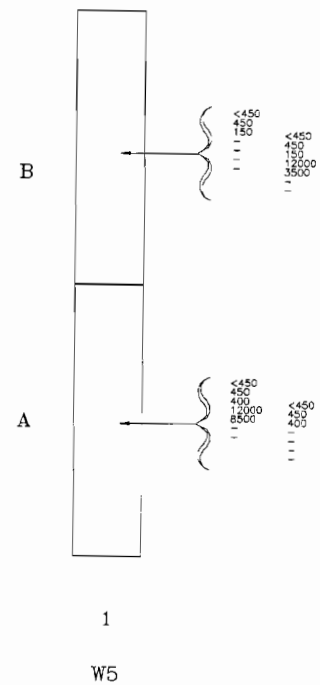
5. Dry Dock 5

e. Localized Grid Maps, West Walls







Sample Data

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1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
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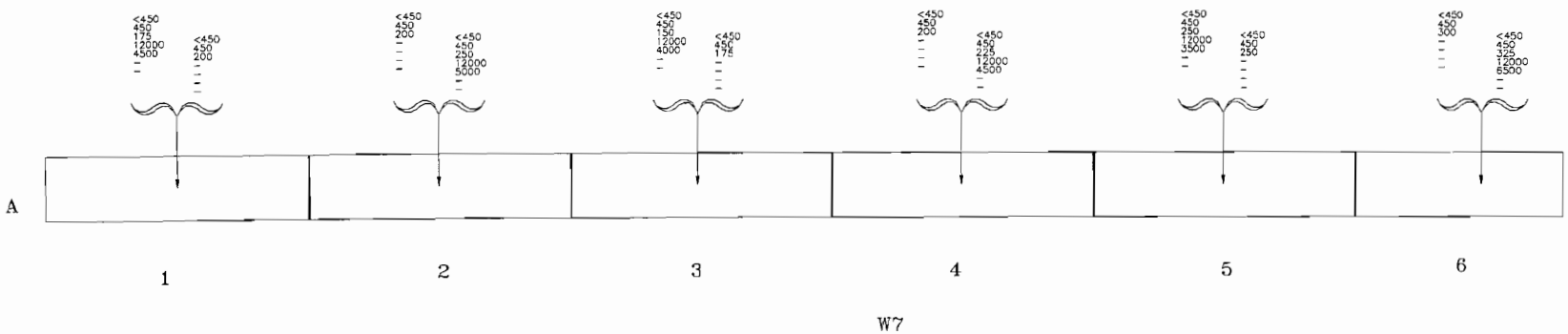
5. Dry Dock 5

e. Localized Grid Maps, West Walls

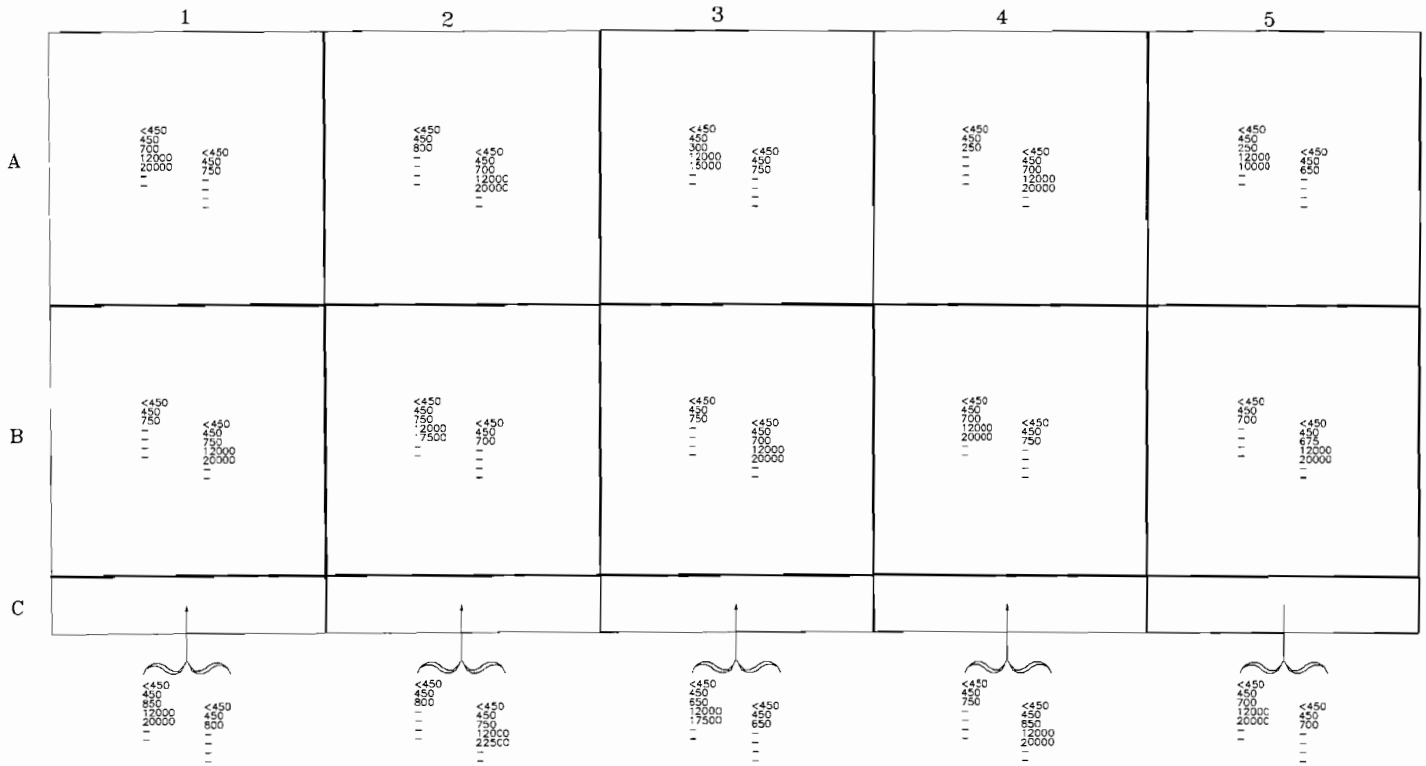


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall

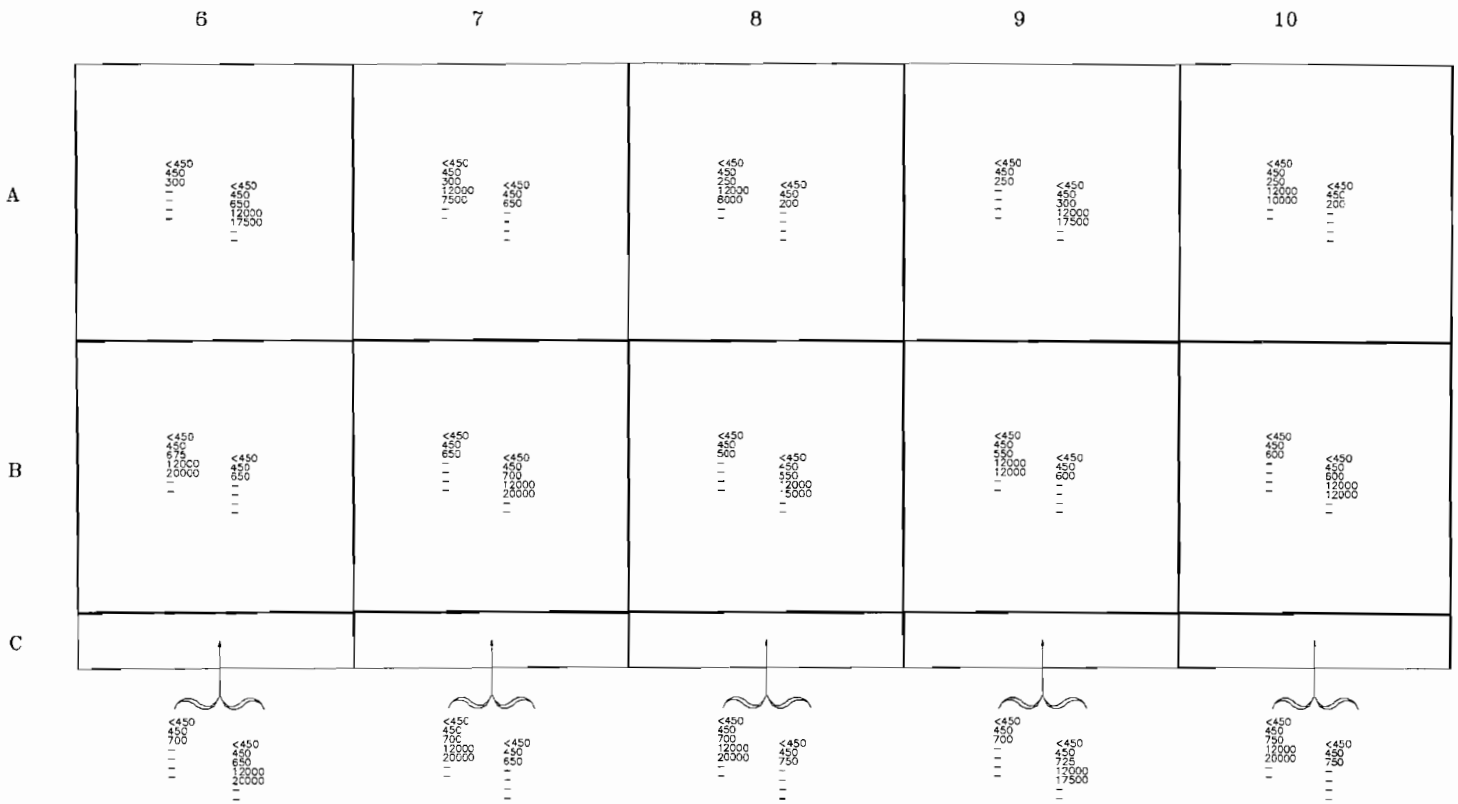


Sample Data

< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MDA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MDA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall



Sample Data

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200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
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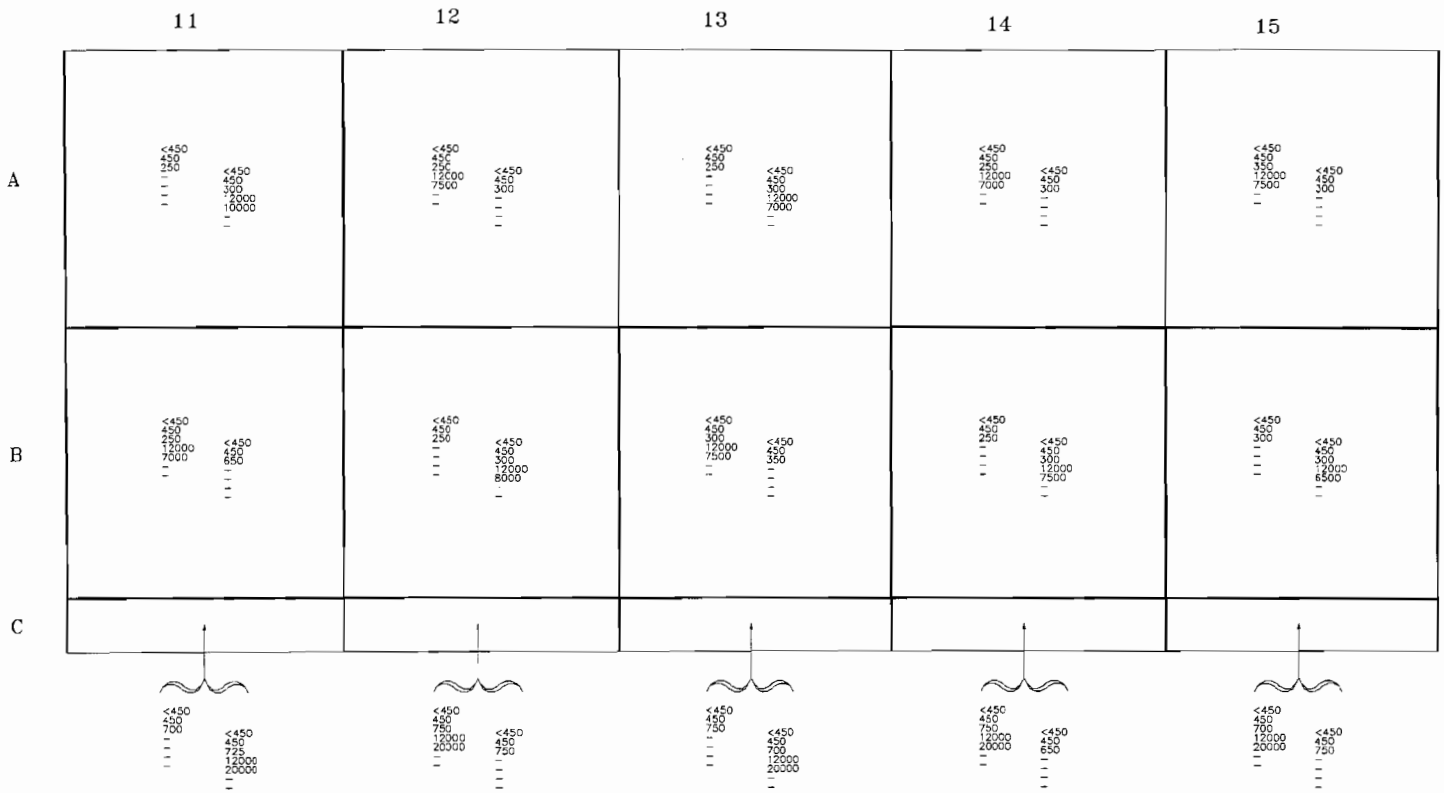
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall



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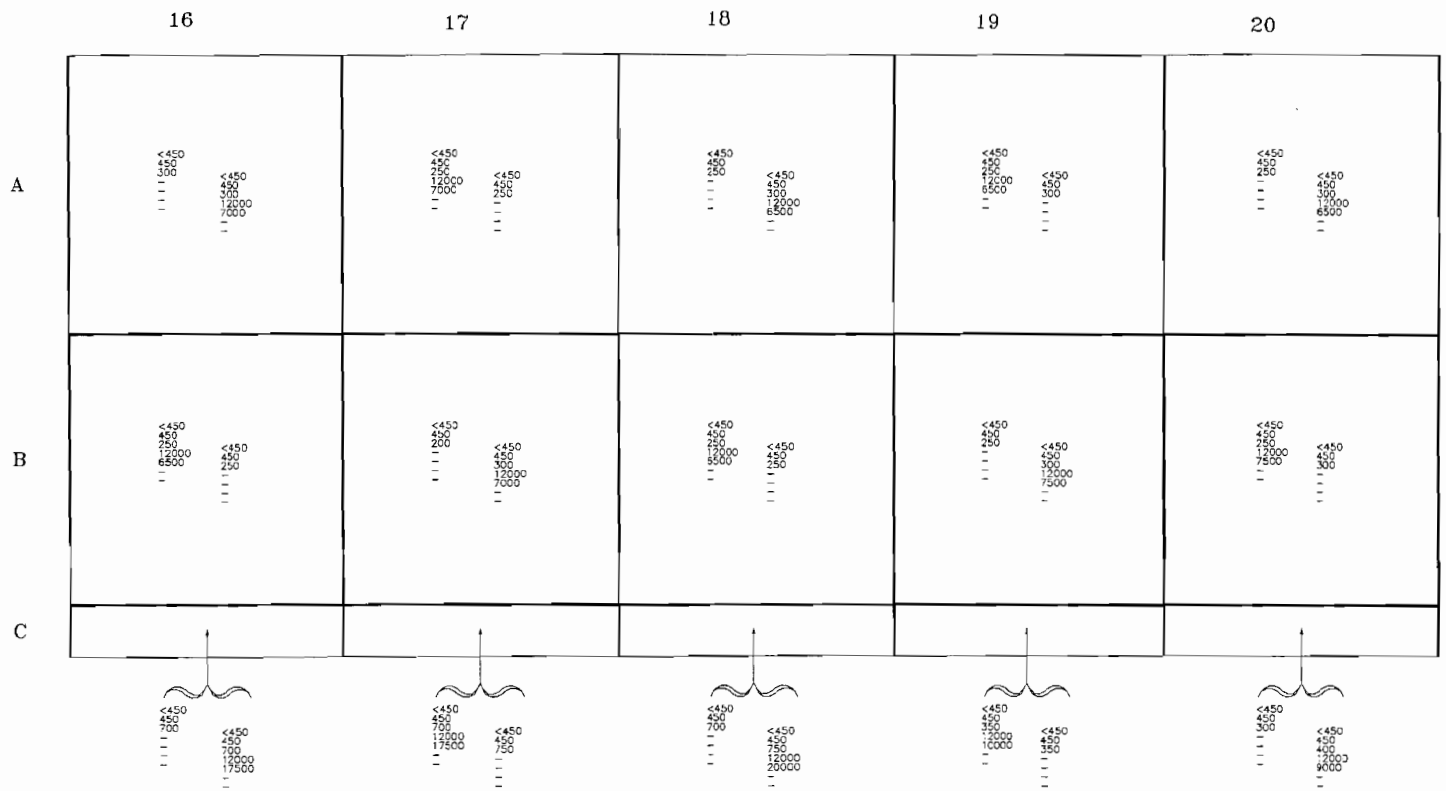
5. Dry Dock 5

e. Localized Grid Maps, North Wall

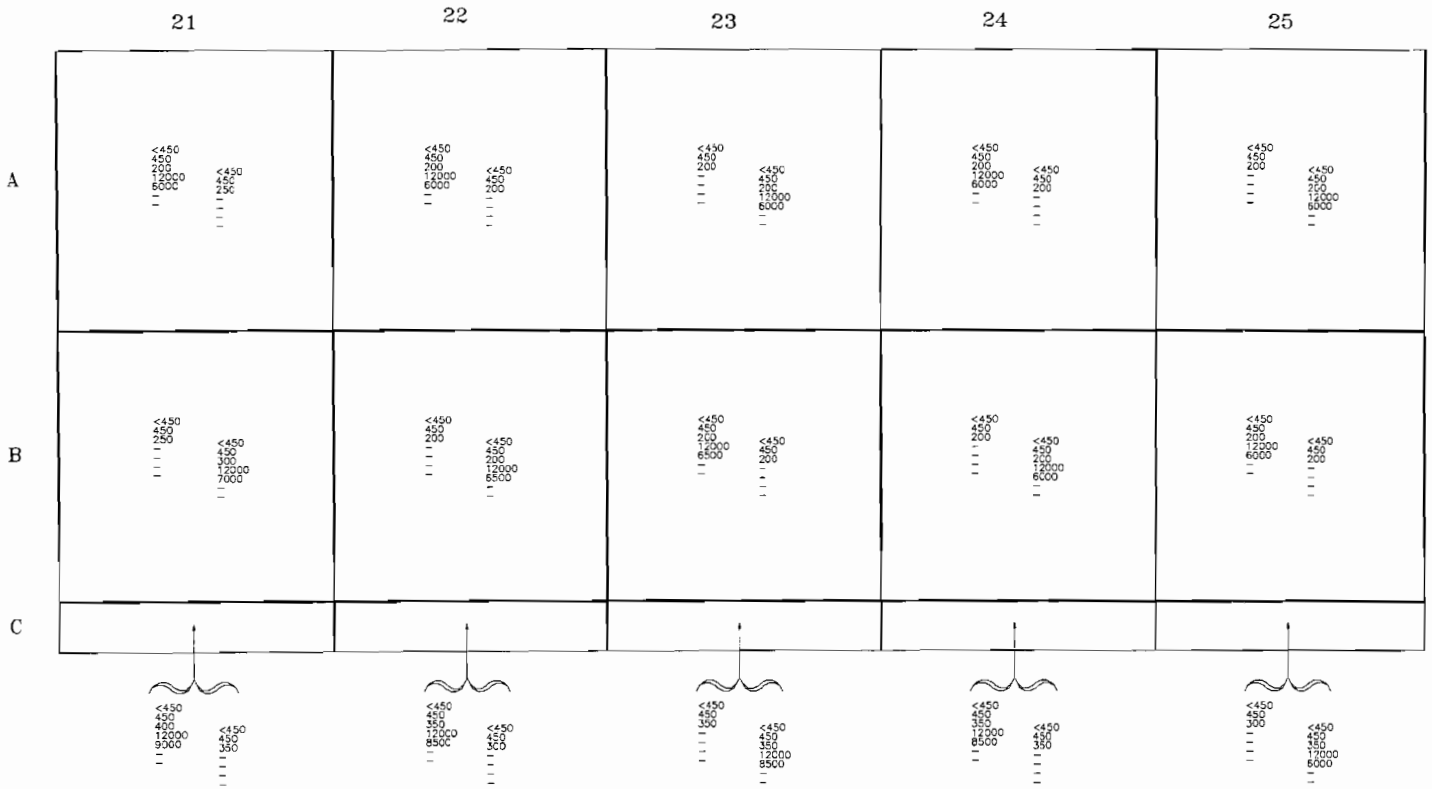


Sample Data

<450 – IM-247/PD Results [µCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall



Sample Data

< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

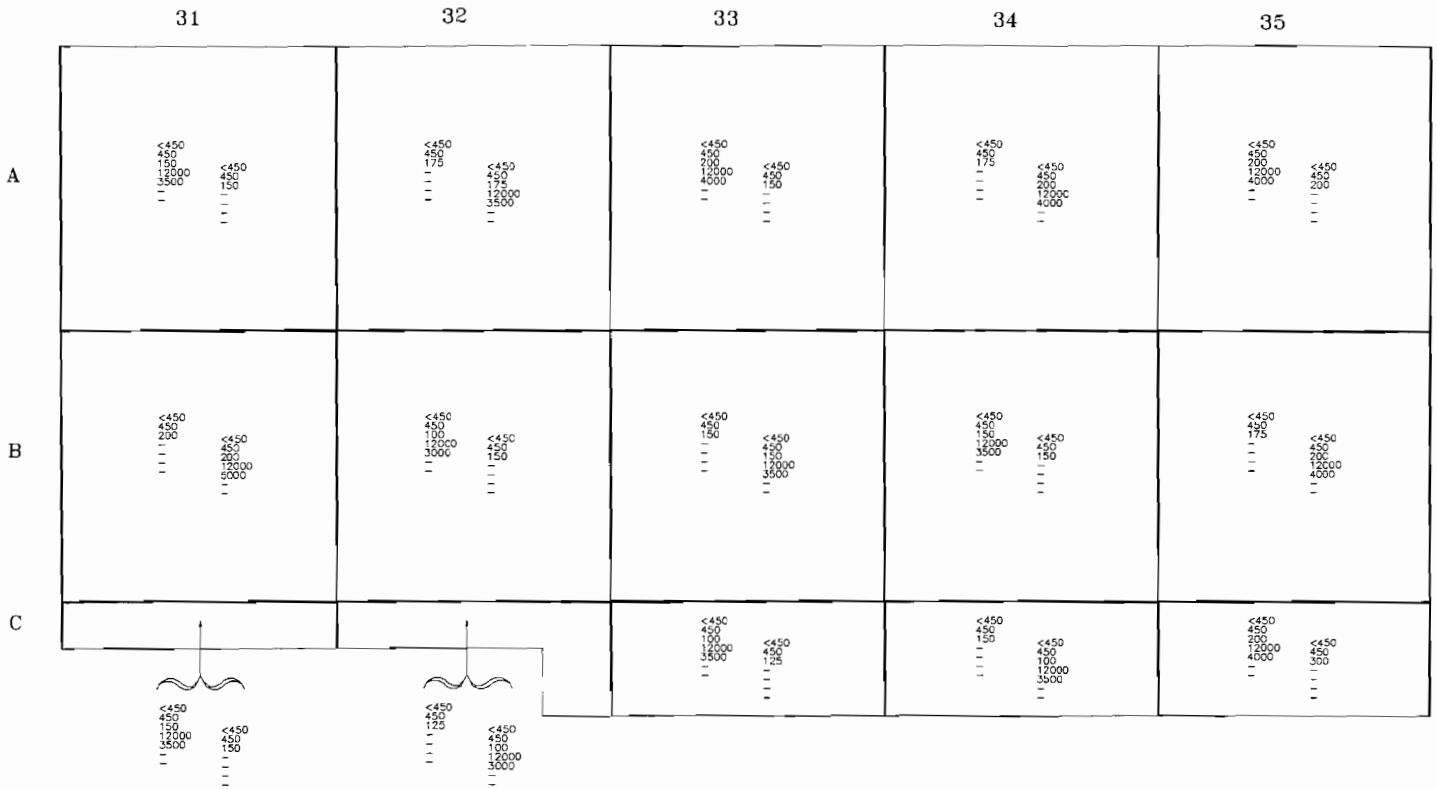
e. Localized Grid Maps, North Wall

Sample Data

<450 – IM-247/PD Results [μuCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall

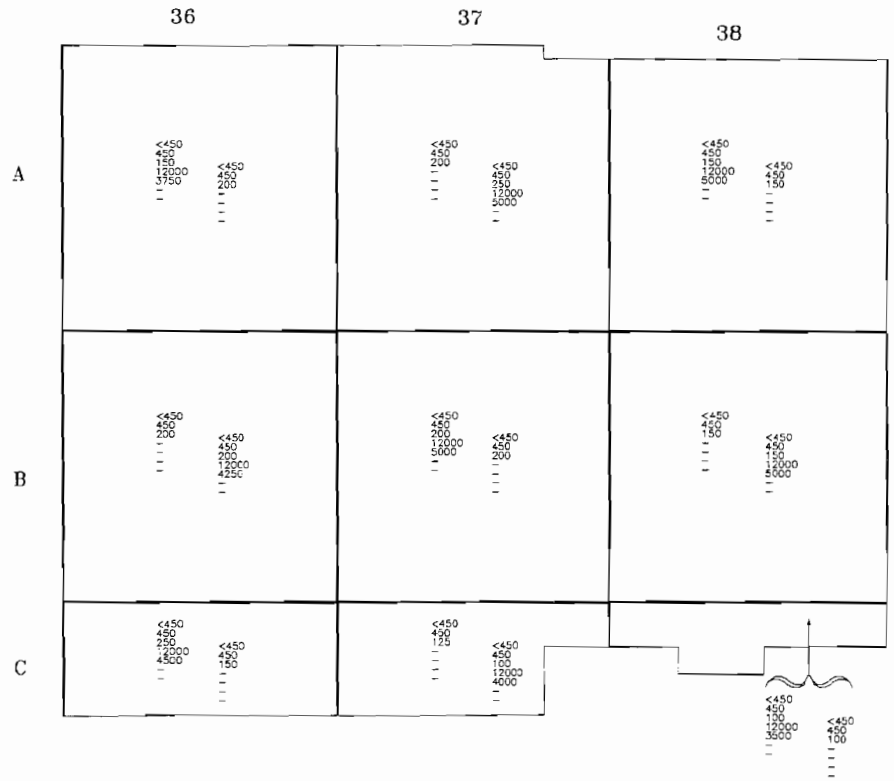


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, North Wall



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, East Wall and Caisson

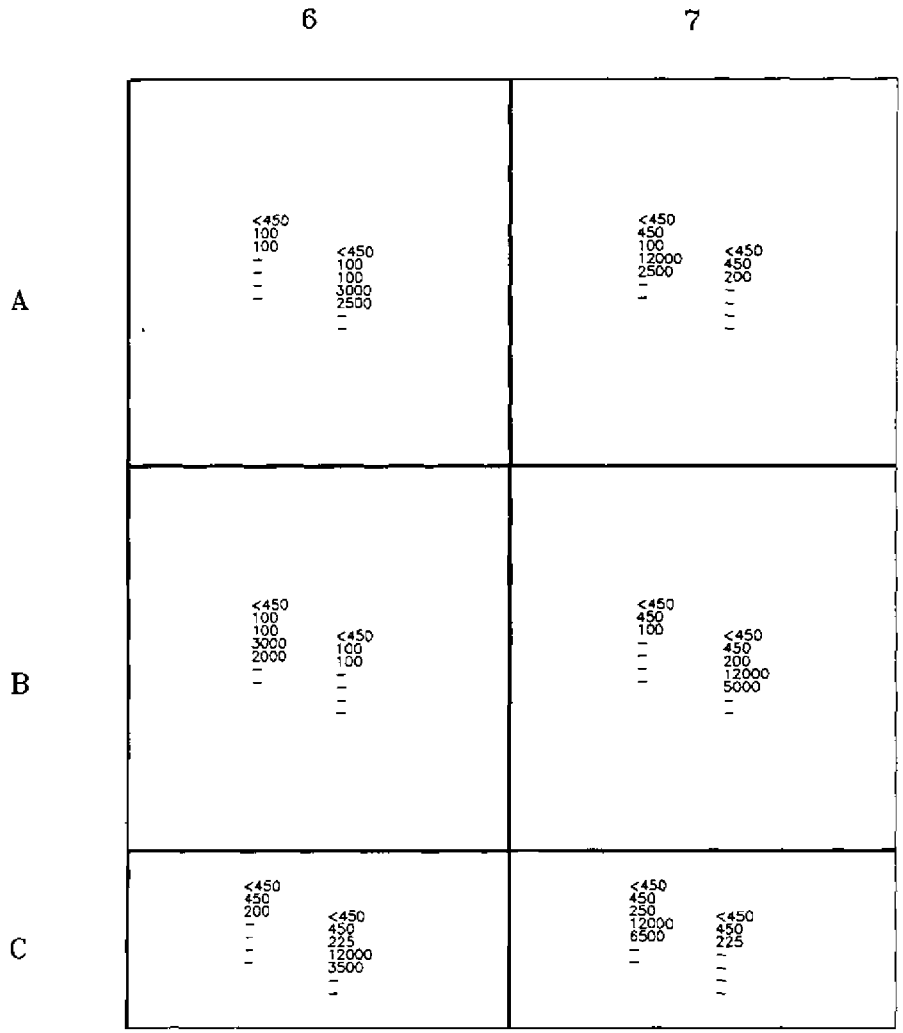
	1	2	3	4	5
A	<450 450< 200 12000 3500 – – <450 450 100 – – – –	<450 100 100 – – – – <450 100 150 3000 2500 – –	<450 100 100 3000 2500 – – <450 100 150 – – – –	<450 100 100 – – – – <450 100 100 3000 2500 – –	<450 100 100 3000 2500 – – <450 100 100 – – – –
B	<450 450 50 – – – – <450 450 100 12000 2000 – –	<450 100 100 3000 2500 – – <450 100 225 – – – –	<450 100 200 – – – – <450 100 200 3000 4000 – –	<450 100 100 3000 2500 – – <450 100 200 – – – –	<450 100 100 – – – – <450 100 200 3000 4000 – –
C	<450 450 200 12000 5500 – – <450 450 200 – – – –	<450 450 250 – – – – <450 450 275 12000 4500 – –	<450 450 175 12000 4500 – – <450 450 200 – – – –	<450 450 250 – – – – <450 450 250 12000 4250 – –	<450 450 250 12000 4000 – – <450 450 300 – – – –

Sample Data

<450 – IM-247/PD Results [$\mu\mu$C/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma E_{γ}, Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, East Wall and Caisson

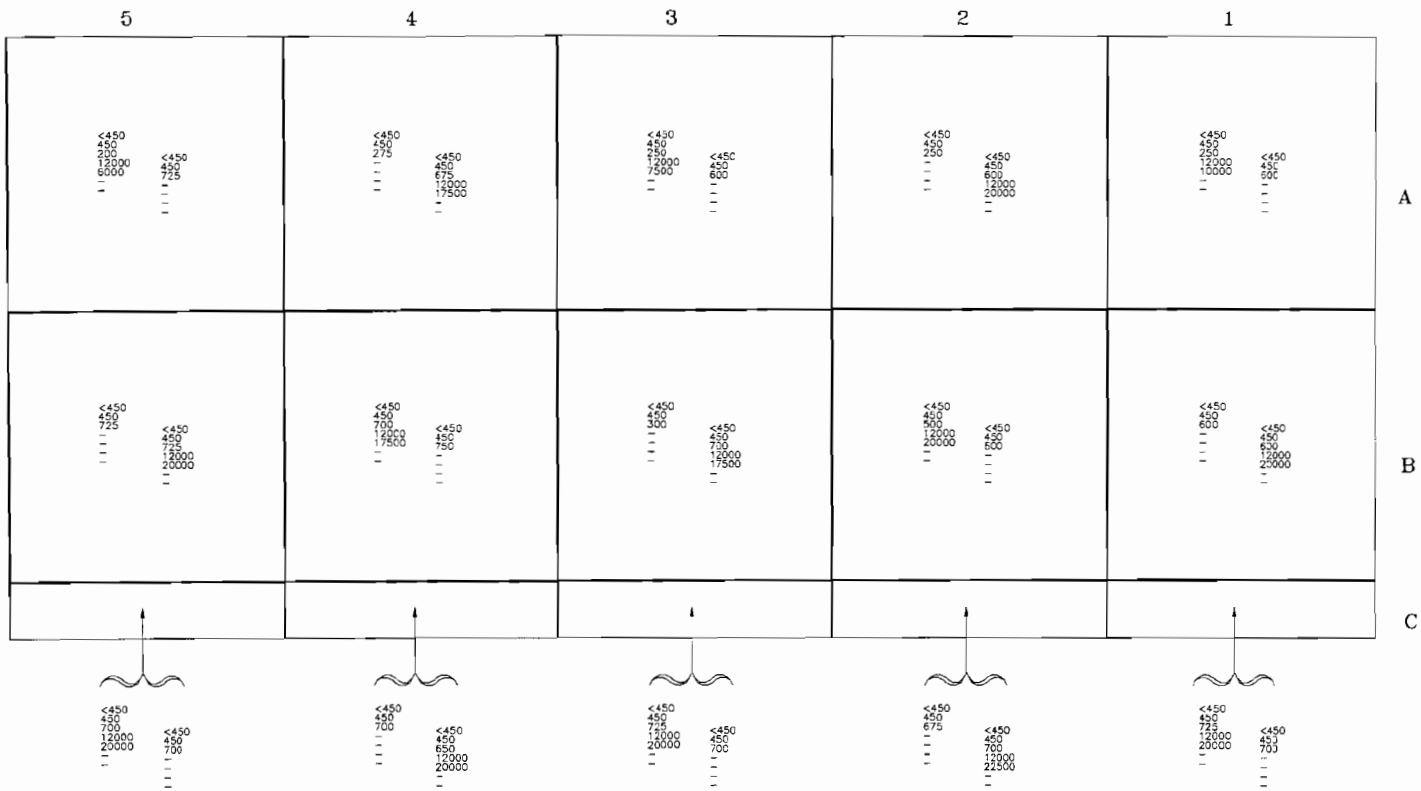


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

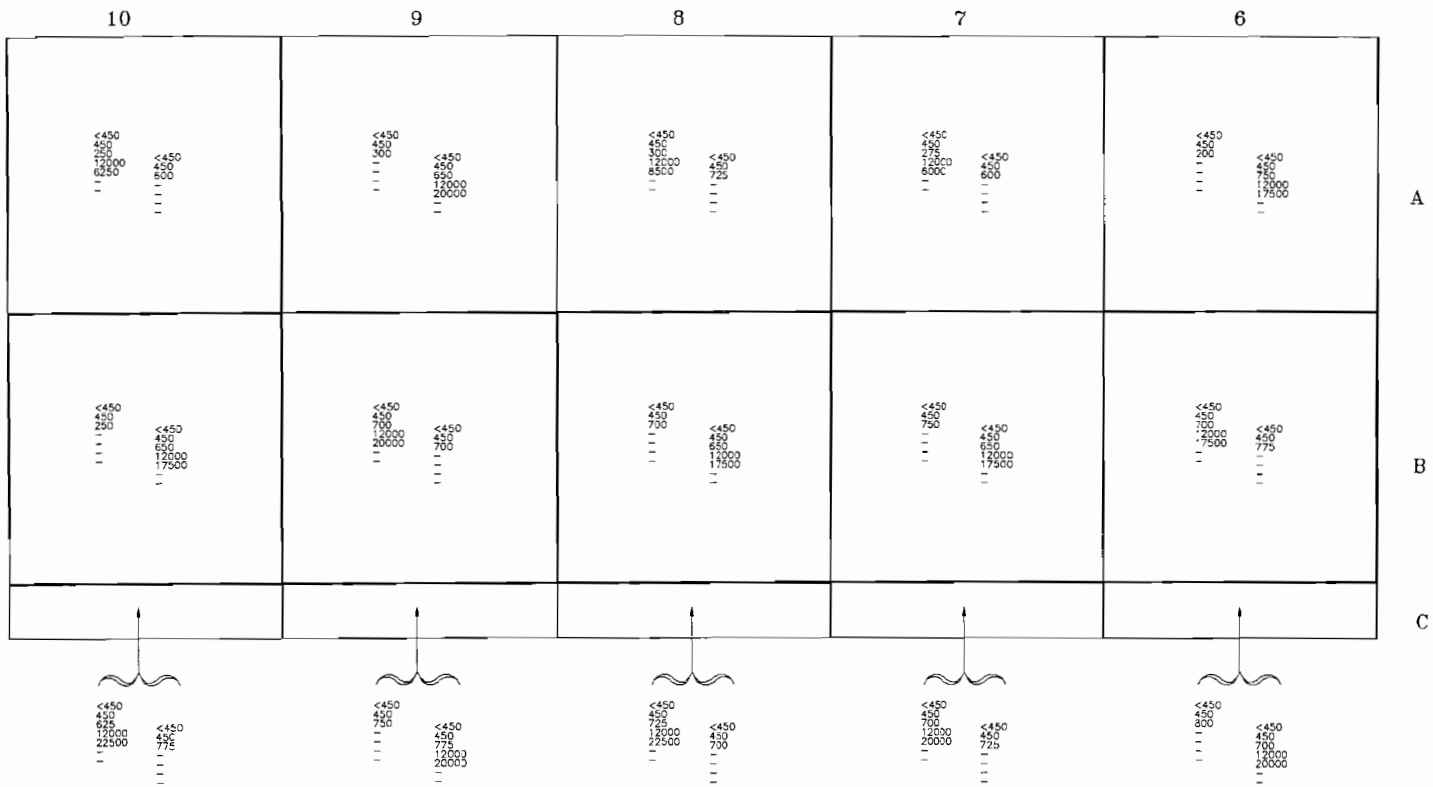


Sample Data

< 450 – IM-247/PD Results [$\mu\mu Ci/20cm^2$]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

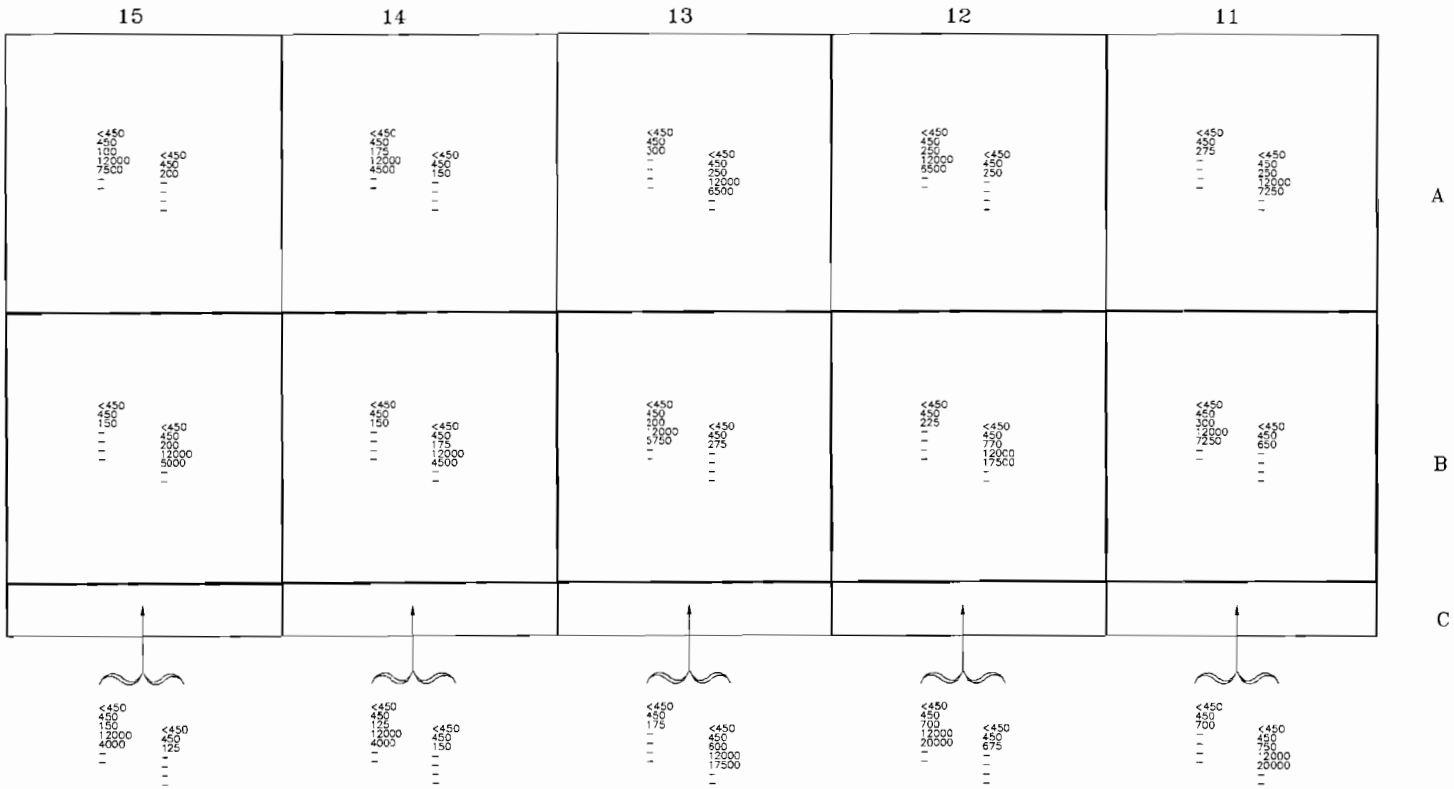


Sample Data

< 450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

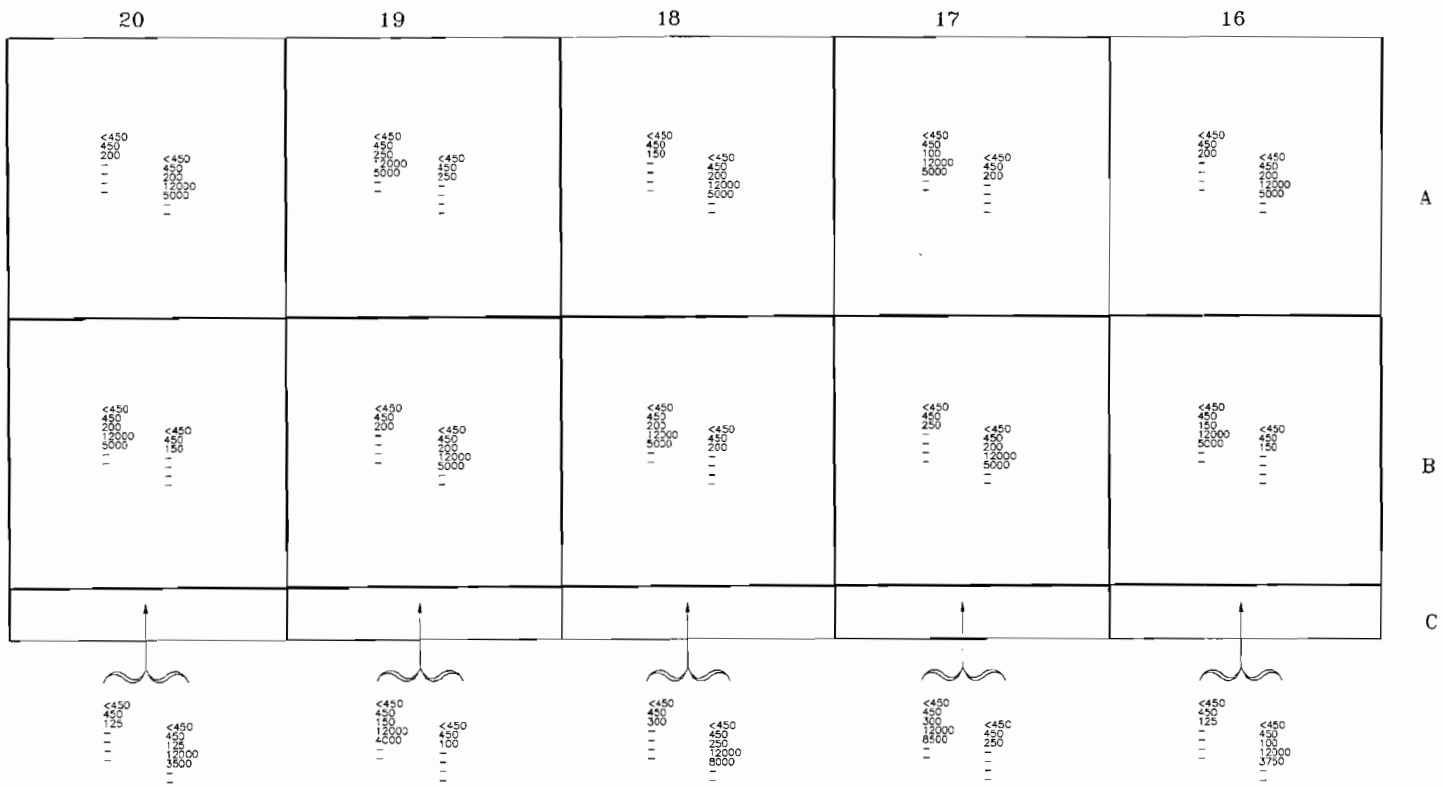


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

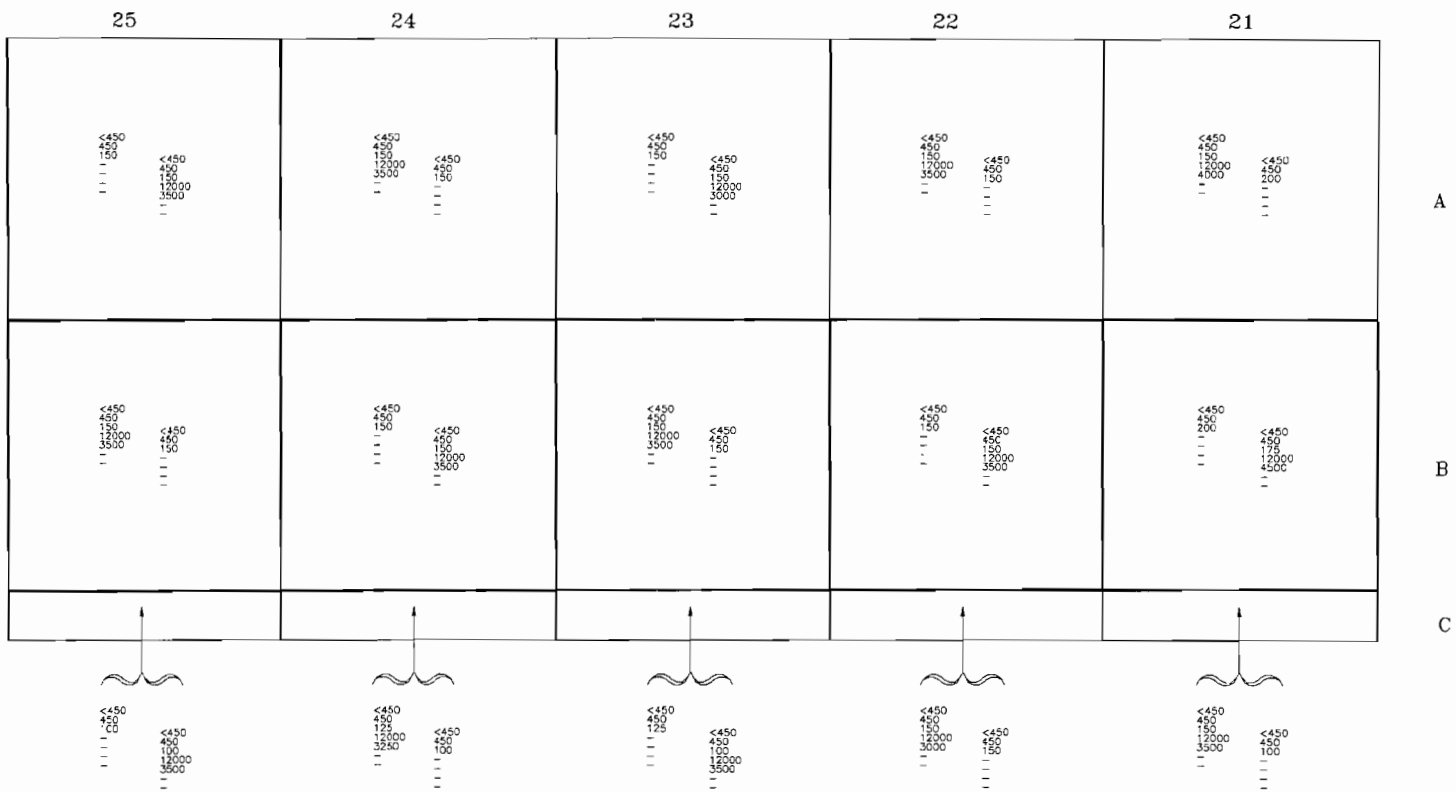


Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

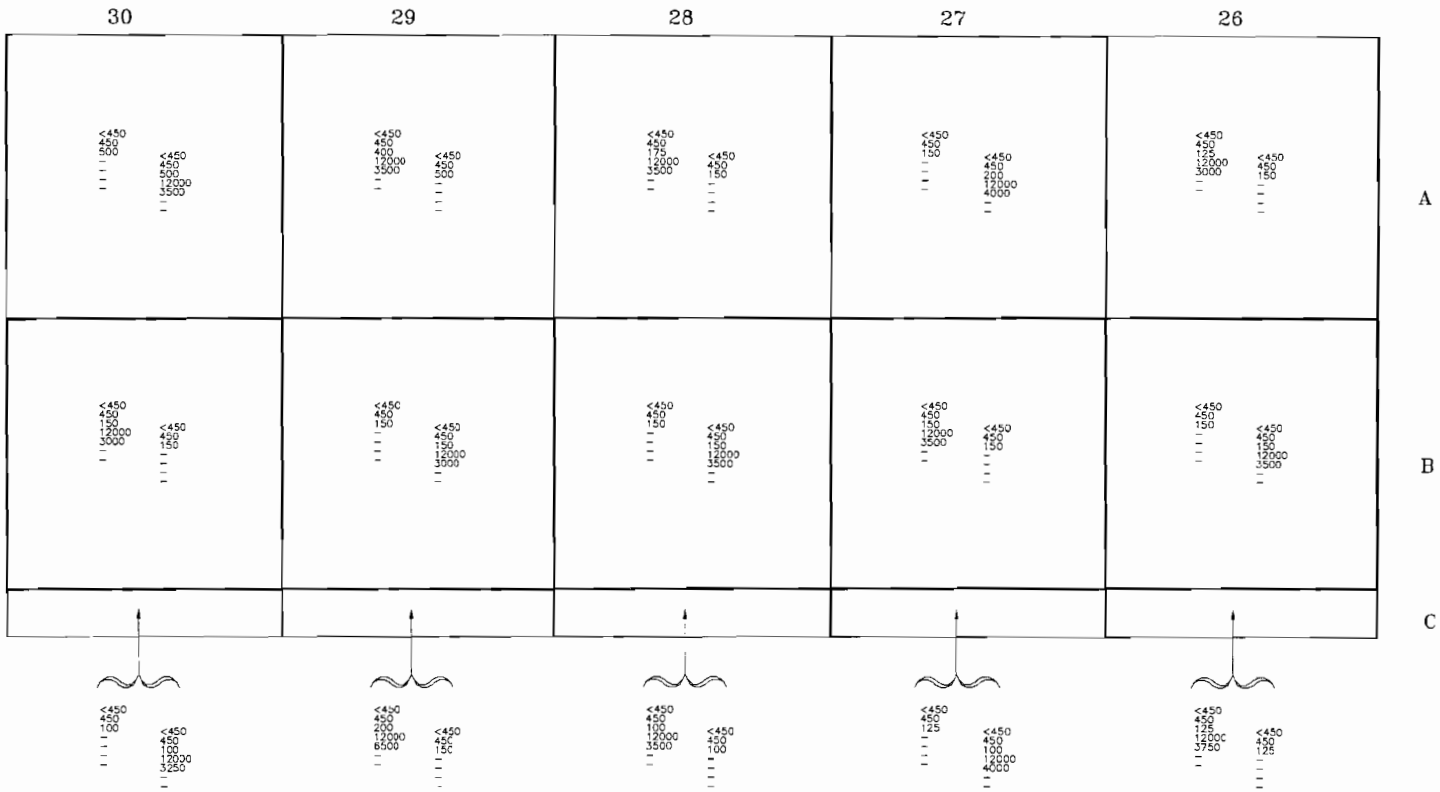


Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

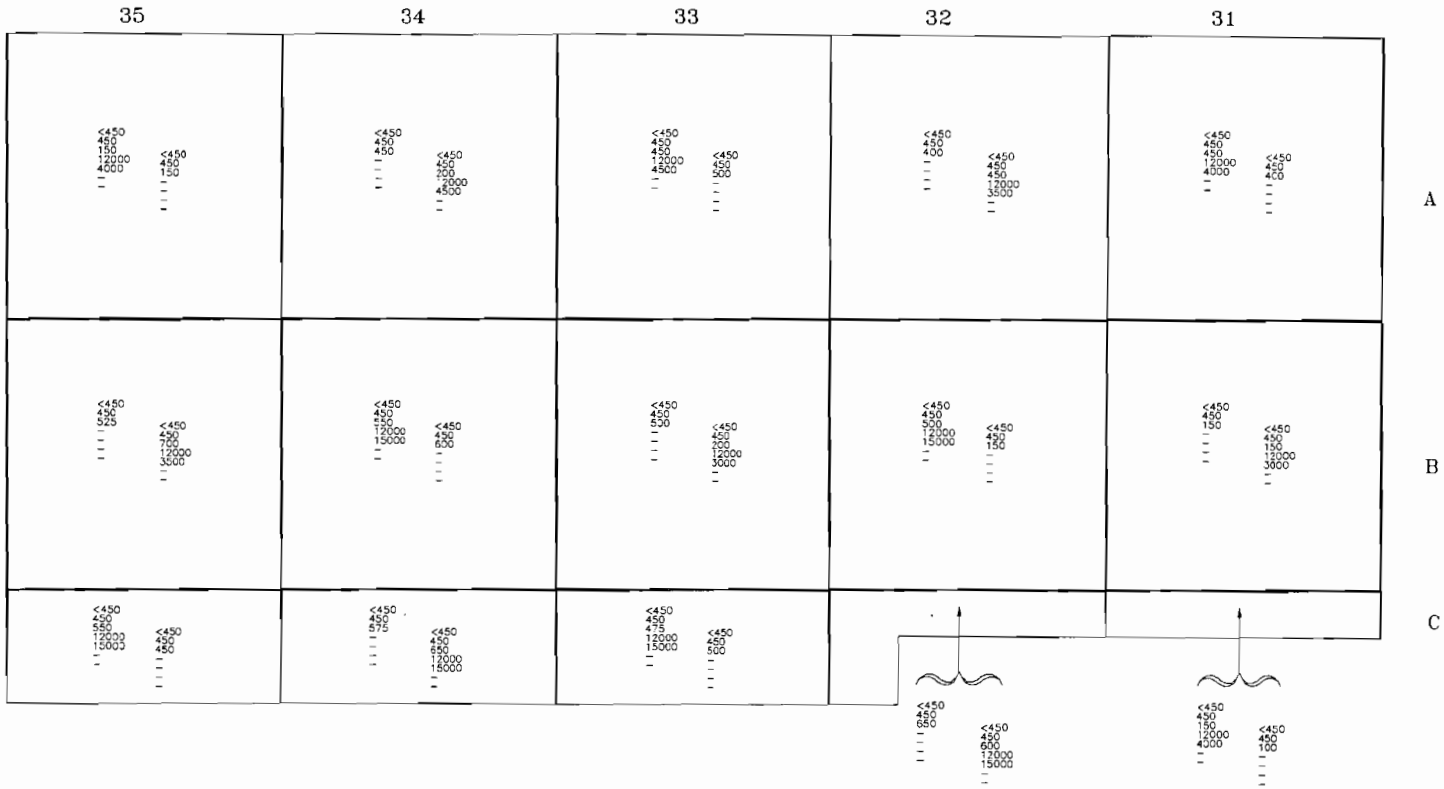


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

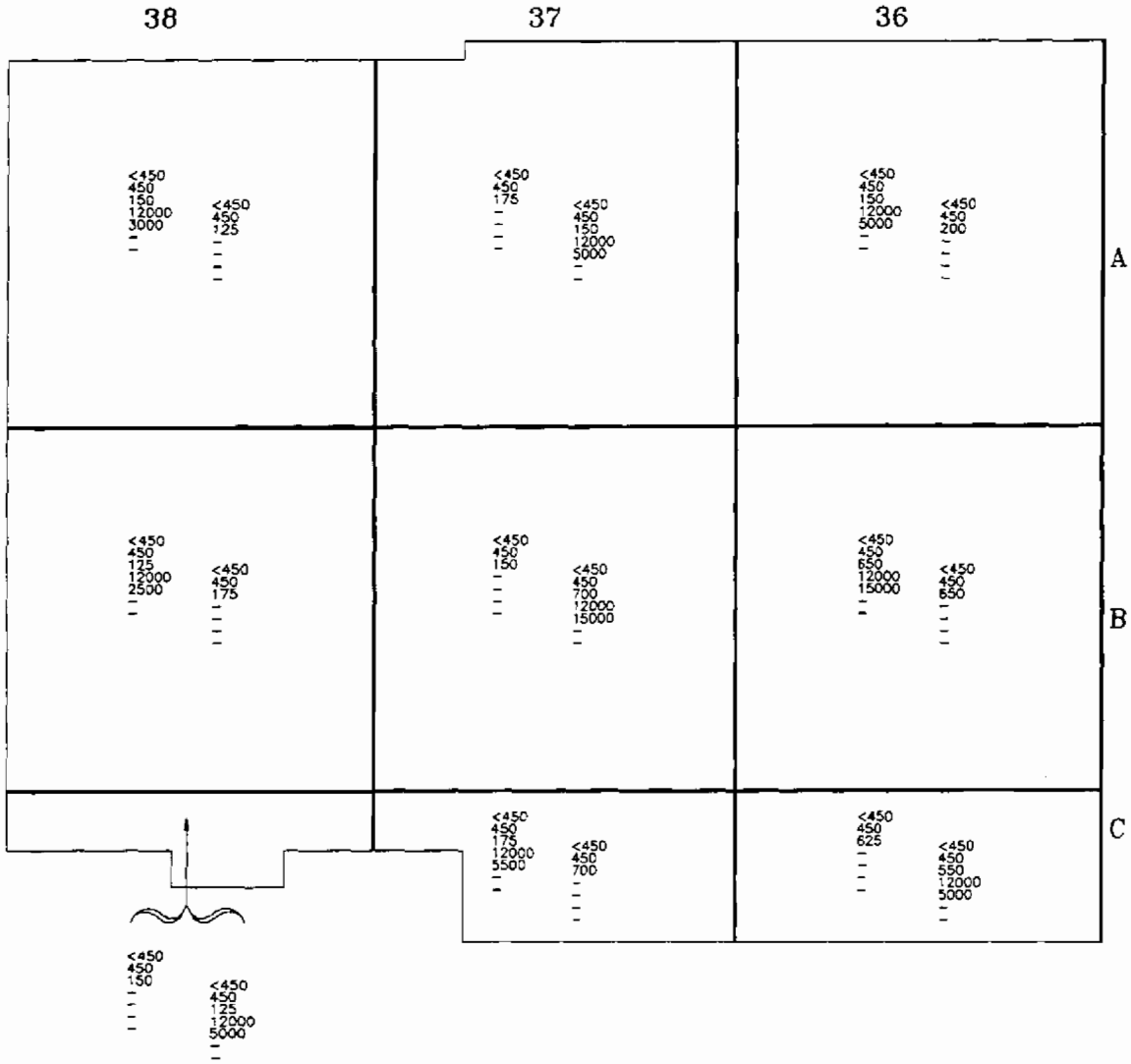


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, South Wall

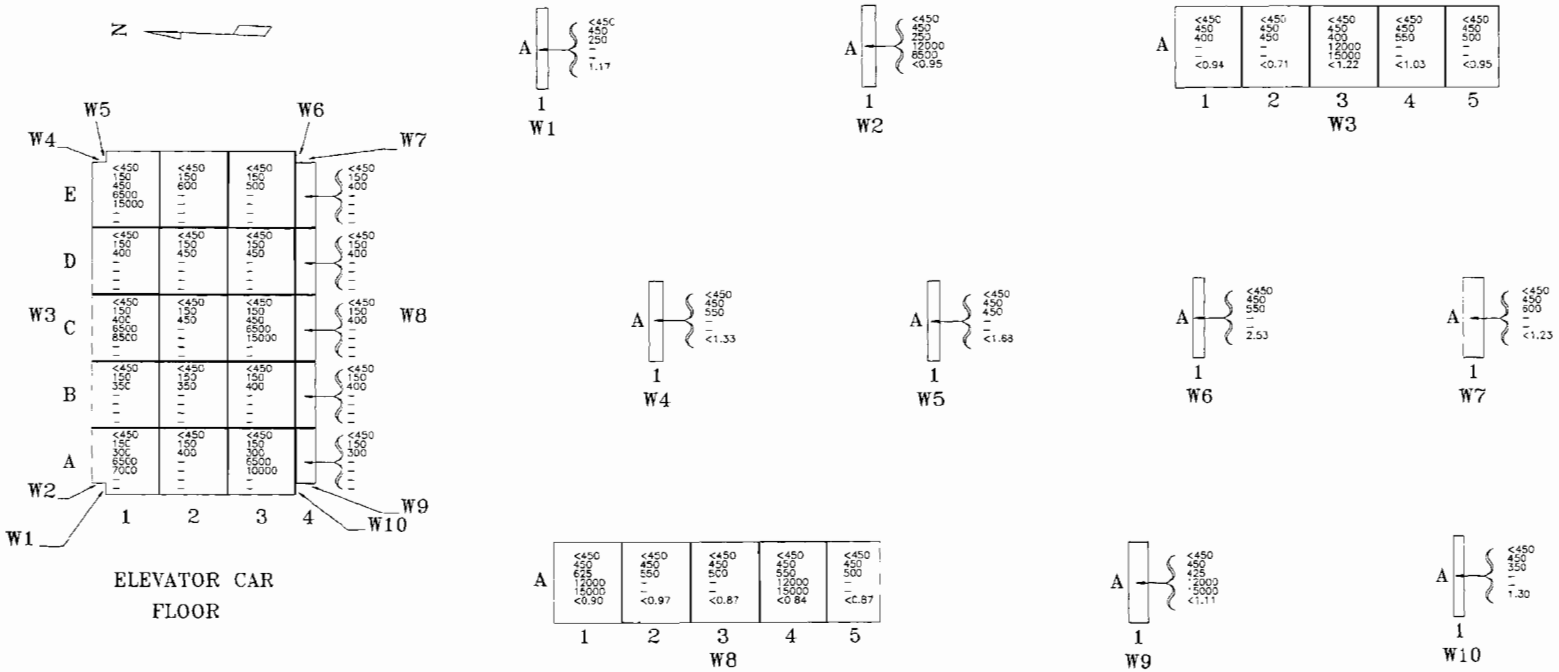


Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Elevator Car



Note
Samples taken from grids W1-A1, W2-A1, W3-A1 -A2 -A3 -A4 -A5, W4-A1, W5-A1,W6-A1, W7-A1, W8-A1 -A2 -A3 -A4 -A5, W9-A1, and W10-A1 consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μCi/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (Hv-2 GROSS) [bkg.]
7300 – IM-253/PD (Hv-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	1	2	3	4	5	6	7	8	9	10	11
D	<450 – – – – – – – – 400 450 – – – –	<450 – – – – – – 2.07 <1 – 400 350 – – –	<450 – – – – – – – – 400 300 – – – –	<450 – – – – – – 1.66 – – 200 100 – – –	<450 – – – – – – – – – 200 150 – – –	<450 – – – – – – 2.18 <1 – 200 150 – – –	<450 – – – – – – 1.32 <1 – 200 100 – – –	<450 – – – – – – 1.43 <1 – 200 100 – – –	<450 – – – – – – – – – 200 125 – – –	<450 – – – – – – 2.53 <1 – 200 100 – – –	<450 – – – – – – – – – 200 125 – – –
C	<450 – – – – – – 3.05 <1 – 400 500 – – –	<450 – – – – – – – – – 400 500 – – –	<450 – – – – – – 3.07 <1 – 400 450 – – –	<450 – – – – – – – – – 200 150 – – –	<450 – – – – – – 1.72 <1 – 200 150 – – –	<450 – – – – – – 1.54 <1 – 200 200 – – –	<450 – – – – – – 1.99 <1 – 200 150 – – –	<450 – – – – – – – – – 200 175 – – –	<450 – – – – – – 1.07 <1 – 200 150 – – –	<450 – – – – – – – – – 200 150 – – –	<450 – – – – – – 1.37 <1 – 200 200 – – –
B	<450 – – – – – – – – 400 750 – – – –	<450 – – – – – – 4.99 <1 – 400 650 – – –	<450 – – – – – – – – 400 550 – – – –	<450 – – – – – – 3.28 <1 – 400 500 – – –	<450 – – – – – – – – – 400 450 – – –	<450 – – – – – – 4.43 <1 – 400 400 – – –	<450 – – – – – – – – – 400 400 – – –	<450 – – – – – – 5.24 <1 – 400 400 – – –	<450 – – – – – – – – – 400 600 – – –	<450 – – – – – – 4.74 <1 – 400 600 – – –	<450 – – – – – – – – – 400 600 – – –
A	<450 – – – – – – 6.27 <1 – <450 400 800 12500 17500 5.51 <1	<450 – – – – – – – – – 400 375 – – –	<450 – – – – – – 3.38 <1 – 400 700 – – –	<450 – – – – – – – – – 400 750 – – –	<450 – – – – – – 3.95 <1 – 400 650 – – –	<450 – – – – – – – – – <450 400 800 12500 15000 5.37 <1	<450 – – – – – – 5.21 <1 – <450 400 800 12500 15000 5.21 <1	<450 – – – – – – – – – 400 750 – – –	<450 – – – – – – 5.19 <1 – 400 700 – – –	<450 – – – – – – – – – 400 650 – – –	<450 – – – – – – 5.06 <1 – 400 650 – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	12	13	14	15	16	17	18	19	20	21	22	23	24	25
D	<450 – – – 1.92 <1 – 200 100 – – –	<450 – – – – – – 200 250 – – –	<450 – – – 1.46 <1 – 200 100 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 0.95 – – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 0.74 – – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.56 <1 – 200 125 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.28 <1 – 400 600 – – –
C	<450 – – – – – – 200 150 – – –	<450 – – – 1.13 <1 – 200 125 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.75 <1 – 200 200 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.53 <1 – 200 150 – – –	<450 – – – – – – 200 125 – – –	<450 – – – 2.44 <1 – 200 125 – – –	<450 – – – – – – 200 175 – – –	<450 – – – 1.86 <1 – 200 175 – – –	<450 – – – – – – 200 150 – – –
B	<450 – – – 4.86 – – 400 550 – – –	<450 – – – – – – 400 400 – – –	<450 – – – 3.84 <1 – 400 450 – – –	<450 – – – – – – 400 350 – – –	<450 – – – 5.03 <1 – 400 600 – – –	<450 – – – 3.34 <1 – 400 600 – – –	<450 – – – 4.88 <1 – 400 300 – – –	<450 – – – – – – 400 550 – – –	<450 – – – 5.32 <1 – 400 600 – – –	<450 – – – – – – 400 650 – – –	<450 – – – 4.98 <1 – 400 650 – – –
A	<450 – – – 6.94 – – 400 600 – – –	<450 – – – 4.32 <1 – 400 350 – – –	<450 – – – – – – 400 650 – – –	<450 – – – 6.24 <1 – 400 750 – – –	<450 – – – – – – <450 400 850 12500 17500 6.02 <1	<450 – – – 7.44 – – 400 750 – – –	<450 – – – – – – 400 450 – – –	<450 – – – 4.26 <1 – 400 700 – – –	<450 – – – – – – 400 675 – – –	<450 – – – 4.11 <1 – 400 600 – – –	<450 – – – 6.44 <1 – 400 600 – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
D	<450 – – – –	– 200 100 – –	<450 – – 1.50 <1	– 200 100 – –	<450 – – –	– 200 150 – –	<450 – – 1.56 <1	– 200 125 – –	<450 – – – –	– 200 150 – –	<450 – – 1.55 <1	– 200 100 – –	<450 – – 2.54 <1	– 200 150 – –	<450 – – 1.40 <1	– 200 100 – –	<450 – – –	– 200 100 – –
C	<450 – – 1.34 <1	– 200 100 – –	<450 – – –	– 200 100 – –	<450 – – 0.80	– 200 125 – –	<450 – – –	– 200 150 – –	<450 – – 1.56 <1	– 200 150 – –	<450 – – –	– 200 125 – –	<450 – – 1.80 <1	– 200 125 – –	<450 – – 1.15 <1	– 200 125 – –	<450 – – 1.48 <1	– 200 125 – –	<450 – – –	– 200 175 – –	<450 – – 1.43 <1	– 200 200 – –
B	<450 – – – –	– 400 450 – –	<450 – – 4.57 <1	– 400 550 – –	<450 – – –	– 400 500 – –	<450 – – 4.42 <1	– 400 400 – –	<450 – – – –	– 400 400 – –	<450 – – 5.42 <1	– 400 550 – –	<450 – – 5.18 <1	– 400 550 – –	<450 – – 5.38 <1	– 400 550 – –	<450 – – –	– 400 550 – –	<450 – – –	– 400 550 – –	<450 – – –	– 400 550 – –
A	<450 – – 5.01 <1	– 400 600 – –	<450 – – –	– 400 600 – –	<450 – – 3.83 <1	– 400 450 – –	<450 – – –	– 400 550 – –	<450 – – 5.36 <1	– 400 750 – –	<450 – – –	– 400 750 – –	<450 – – 3.83 <1	<450 400 600 12500 15000 5.22 <1	<450 – – –	– 400 750 – –	<450 – – 4.31 <1	– 400 700 – –	<450 – – –	– 400 700 – –	<450 – – 1.92 <1	– 400 600 – –

Sample Data

<450 – IM-247/PD Results (μμCi/20cm²)
200 – IM-253/PD (HV-1 PHA) (bkg.)
300 – IM-253/PD (HV-1 PHA) (cpm)
7000 – IM-253/PD (HV-2 GROSS) (bkg.)
7300 – IM-253/PD (HV-2 GROSS) (cpm)
1.82 – MCA Gross Gamma Eq. Co-60 (pCi/g)
<1 – MCA Specific Co-60 Results (pCi/g)

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	42	43	44	45	46	47	48	49	50	51	52
D	<450 – – – – 1.17 <1	<450 – – – – – –	<450 – – – – 0.99 –	<450 – – – – – –	<450 – – – – 1.36 <1	<450 – – – – 1.48 <1	<450 – – – – 1.03 <1	<450 – – – – – –	<450 – – – – 2.58 <1	<450 – – – – – –	<450 – – – – 1.19 <1
	– 200 100 – – – –	– 200 150 – – – –	– 200 125 – – – –	– 200 100 – – – –	– 200 100 – – – –	– 200 100 – – – –	– 200 150 – – – –	– 200 150 – – – –	– 200 150 – – – –	– 200 100 – – – –	– 200 100 – – – –
C	<450 – – – – – –	<450 – – – – 2.11 <1	<450 – – – – – –	<450 – – – – <0.43 –	<450 – – – – – –	<450 – – – – 2.70 <1	<450 – – – – – –	<450 – – – – 0.80 –	<450 – – – – – –	<450 – – – – 1.36 <1	<450 – – – – – –
	– 200 150 – – – –	– 200 150 – – – –	– 200 150 – – – –	– 200 175 – – – –	– 200 150 – – – –	– 200 175 – – – –	– 200 150 – – – –	– 200 150 – – – –	– 200 100 – – – –	– 200 150 – – – –	– 200 150 – – – –
B	<450 – – – – 4.24 <1	<450 – – – – – –	<450 – – – – 4.04 <1	<450 – – – – – –	<450 – – – – 4.80 <1	<450 – – – – – –	<450 – – – – 4.52 <1	<450 – – – – – –	<450 – – – – 4.16 <1	<450 – – – – – –	<450 – – – – 4.37 <1
	– 400 600 – – – –	– 400 700 – – – –	– 400 750 – – – –	– 400 650 – – – –	– 400 650 – – – –	– 400 700 – – – –	– 400 600 – – – –	– 400 600 – – – –	– 400 600 – – – –	– 400 600 – – – –	– 400 600 – – – –
A	<450 – – – – – –	<450 – – – – 1.34 <1	<450 – – – – – –	<450 – – – – 3.26 <1	<450 – – – – – –	<450 – – – – 3.74 <1	<450 – – – – – –	<450 – – – – 4.21 <1	<450 – – – – – –	<450 – – – – 3.81 <1	<450 – – – – – –
	– 400 600 – – – –	– 200 200 – – – –	– 400 550 – – – –	– 400 550 – – – –	– 400 550 – – – –	– 400 550 – – – –	– 400 600 – – – –	– 400 600 – – – –	– 400 700 – – – –	– 400 600 – – – –	– 400 650 – – – –

Sample Data

< 450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	53	54	55	56	57	58	59	60	61	62	63
D	<450 – – – – – – – 200 100 – – – –	<450 – – – – – 1.40 <1 – 200 100 – – –	<450 – – – – – – – 200 125 – – – –	<450 – – – – – 2.30 <1 – 200 150 – – –	<450 – – – – – – – 200 100 – – – –	<450 – – – – – 1.76 <1 – 200 100 – – –	<450 – – – – – – – 200 150 – – – –	<450 – – – – – 1.33 <1 – 200 100 – – –	<450 – – – – – – – 200 150 – – – –	<450 – – – – – 1.75 <1 – 200 100 – – –	<450 – – – – – – – 200 150 – – – –
C	<450 – – – – – 0.89 – 200 150 – – – –	<450 – – – – – – – 200 200 – – – –	<450 – – – – – 1.57 <1 – 200 150 – – –	<450 – – – – – – – 400 300 – – – –	<450 – – – – – 1.43 <1 – 200 200 – – –	<450 – – – – – – – 200 150 – – – –	<450 – – – – – 0.91 – 200 150 – – – –	<450 – – – – – – – 200 150 – – – –	<450 – – – – – 1.62 <1 – 200 150 – – –	<450 – – – – – 0.59 – 200 125 – – – –	<450 – – – – – 1.11 <1 – 200 100 – – –
B	<450 – – – – – – – 400 750 – – – –	<450 – – – – – 4.64 <1 – 400 700 – – –	<450 – – – – – – – 400 400 – – – –	<450 – – – – – 3.54 <1 – 400 600 – – –	<450 – – – – – – – 400 400 – – – –	<450 – – – – – 4.92 <1 – 400 600 – – –	<450 – – – – – 2.15 <1 – 400 600 – – –	<450 – – – – – 5.69 <1 – 400 600 – – –	<450 – – – – – – – 200 200 – – – –	<450 – – – – – 5.25 <1 – 400 600 – – –	<450 – – – – – – – 400 550 – – – –
A	<450 – – – – – 4.79 – 400 500 – – – –	<450 – – – – – 5.25 <1 – 400 625 – – –	<450 – – – – – 5.36 <1 – 400 675 – – –	<450 – – – – – – – 400 550 – – – –	<450 – – – – – 3.53 <1 – 400 625 – – –	<450 – – – – – – – 400 600 – – – –	<450 – – – – – 2.78 <1 – 400 650 – – –	<450 – – – – – – – 400 550 – – – –	<450 – – – – – 5.27 <1 – 400 600 – – –	<450 – – – – – – – 400 600 – – – –	<450 – – – – – 3.00 <1 – 400 600 – – –

Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.E2 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	64	65	66	67	68	69	70	71	72	73	74
D	<450 – – – 1.81 <1 – 100 125 – – –	<450 – – – 1.34 <1 – 200 200 – – –	<450 – – – 2.19 <1 – 200 125 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.35 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.34 <1 – 200 100 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.52 <1 – 200 150 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 4.03 <1 – 200 100 – – –
C	<450 – – – – – – 200 100 – – –	<450 – – – 1.01 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.40 <1 – 200 100 – – –	<450 – – – – – – 200 175 – – –	<450 – – – 1.86 <1 – 200 200 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.17 <1 – 200 200 – – –	<450 – – – – – – 200 150 – – –	<450 – – – 1.70 <1 – 200 125 – – –	<450 – – – – – – 200 175 – – –
B	<450 – – – 4.33 <1 – 400 600 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 5.86 <1 – 400 500 – – –	<450 – – – – – – 400 500 – – –	<450 – – – 4.76 <1 – 400 700 – – –	<450 – – – 3.36 <1 – 400 775 – – –	<450 – – – 4.77 <1 – 400 750 – – –	<450 – – – – – – 400 700 – – –	<450 – – – 4.76 <1 – 400 600 – – –	<450 – – – – – – 400 550 – – –	<450 – – – 4.31 <1 – 400 500 – – –
A	<450 – – – – – – 400 700 – – –	<450 – – – 2.56 <1 – 400 650 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 3.83 <1 – 400 675 – – –	<450 – – – – – – 400 625 – – –	<450 – – – 4.68 <1 – 400 575 – – –	<450 – – – – – – 200 200 – – –	<450 – – – 3.50 <1 – 400 625 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 3.69 <1 – 400 550 – – –	<450 – – – – – – 400 450 – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

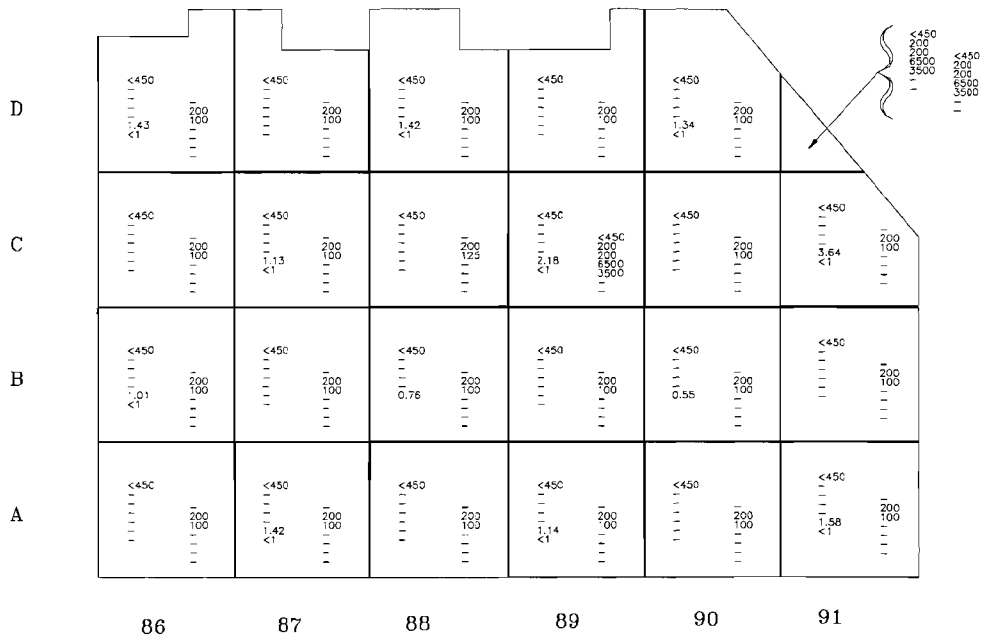
	75	76	77	78	79	80	81	82	83	84	85
D	<450 – – – – – – – 200 100 – – –	<450 – – – 1.50 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.86 <1 – – 200 150 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.60 <1 – – 200 100 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – 1.22 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.73 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –
C	<450 – – – 1.47 – – – 200 150 – – –	<450 – – – – – – – 200 175 – – –	<450 – – – 1.21 <1 – – 200 150 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.06 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.44 <1 – – 200 100 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – 1.32 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.65 <1 – – 200 100 – – –
B	<450 – – – – – – – 200 125 – – –	<450 – – – 1.33 <1 – – 200 100 – – –	<450 – – – – – – – 200 75 – – –	<450 – – – 1.78 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.22 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.86 <1 – – 200 150 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 2.12 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –
A	<450 – – – 3.92 – – – 400 400 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.64 <1 – – 200 125 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.57 <1 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – 1.79 <1 – – 200 100 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – 4.09 <1 – – 200 100 – – –	<450 – – – 1.21 <1 – – 200 100 – – –	<450 – – – 1.64 <1 – – 200 100 – – –

Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas



Sample Data
< 450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	1	2	3	4
I	<450 – – – 7.85 <1 – 400 700 – – –	<450 – – – 4.94 <1 – 400 700 – – –	<450 – – – 6.43 <1 – 400 500 – – –	<450 – – – – – – 200 100 – – –
H	<450 – – – – – – 400 650 – – –	<450 – – – 5.05 – – 400 650 – – –	<450 – – – – – – 400 450 – – –	<450 – – – 1.89 <1 – 200 100 – – –
G	<450 – – – 6.16 <1 – 400 700 – – –	<450 – – – – – – 400 650 – – –	<450 – – – 7.50 <1 – 400 500 – – –	<450 – – – – – – 200 100 – – –
F	<450 – – – – – – 400 650 – – –	<450 – – – 6.72 <1 – 400 700 – – –	<450 – – – – – – 400 550 – – –	<450 – – – 1.89 <1 – 200 100 – – –
E	<450 – – – 3.59 <1 – 400 525 – – –	<450 – – – 6.15 <1 – 400 600 – – –	<450 – – – 6.21 <1 – 400 700 – – –	<450 – – – – – – 200 100 – – –

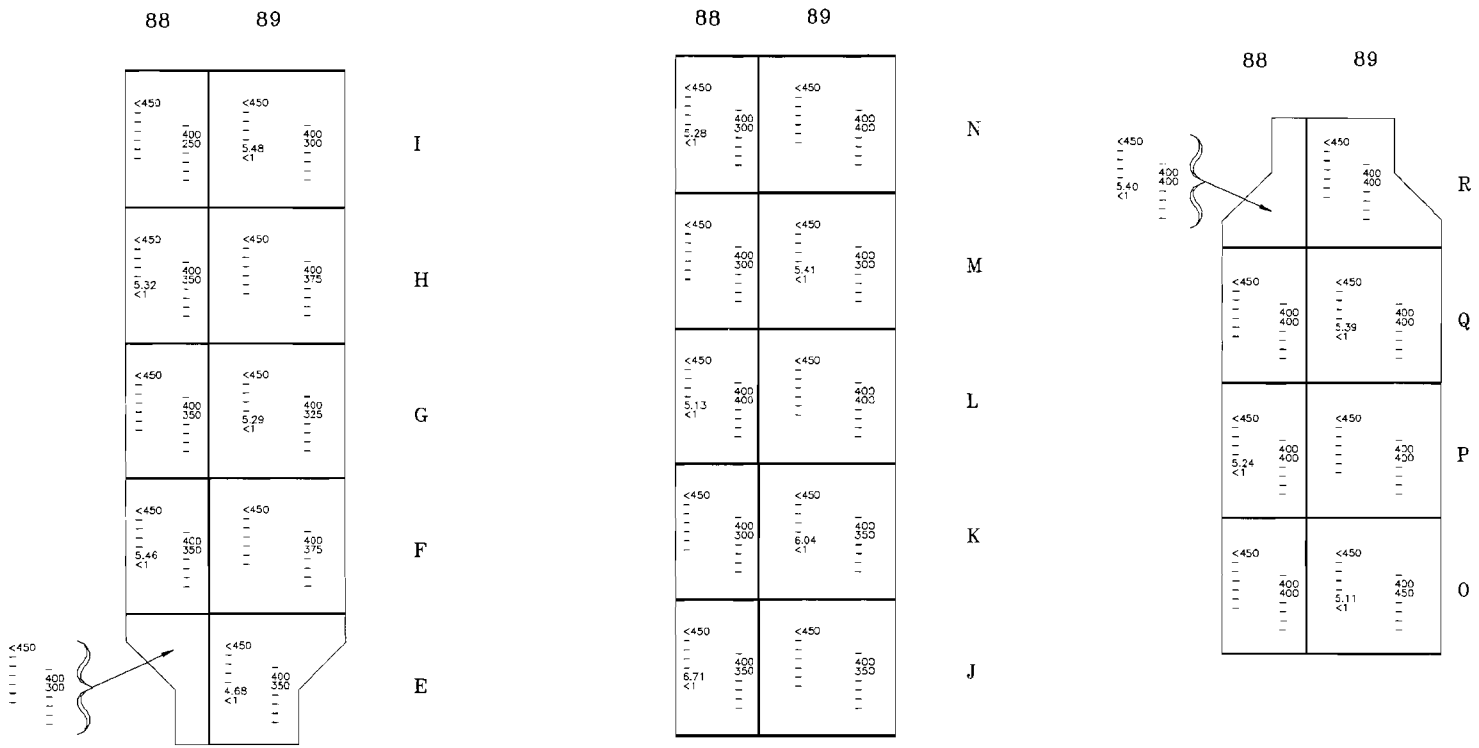
	1	2	3	4
N	<450 – – – – – – 400 650 – – –	<450 – – – 6.31 <1 – 400 600 – – –	<450 – – – – – – 400 625 – – –	<450 – – – 3.46 <1 – 200 150 – – –
M	<450 – – – 6.11 <1 – 400 600 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 6.06 <1 – 400 500 – – –	<450 – – – – – – 200 150 – – –
L	<450 – – – – – – 400 650 – – –	<450 – – – 5.90 <1 – 400 600 – – –	<450 – – – – – – 400 550 – – –	<450 – – – 1.14 <1 – 200 100 – – –
K	<450 – – – 6.28 <1 – 400 600 – – –	<450 – – – 6.35 <1 – 400 650 – – –	<450 – – – 5.68 <1 – 400 400 – – –	<450 – – – – – – 200 100 – – –
J	<450 – – – – – – 400 600 – – –	<450 – – – 5.76 <1 – 400 650 – – –	<450 – – – – – – 400 375 – – –	<450 – – – 2.02 <1 – 200 100 – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	1	2	3	4
R	<450 – – – – – – – 400 650 – – – –	<450 – – – – 5.86 <1 – 400 600 – – –	<450 – – – – 5.85 <1 – 400 600 – – –	<450 – – – – 1.41 <1 – 200 200 – – –
Q	<450 – – – – 5.78 – – 400 650 – – –	<450 – – – – – – – 400 650 – – –	<450 – – – – 5.71 – – 400 600 – – –	<450 – – – – – – – 200 200 – – –
P	<450 – – – – – – – 400 600 – – –	<450 – – – – 6.02 <1 – 400 650 – – –	<450 – – – – – – – 400 600 – – –	<450 – – – – 1.13 <1 – 200 200 – – –
O	<450 – – – – 6.58 – – 400 650 – – –	<450 – – – – – – – 400 600 – – –	<450 – – – – 4.95 <1 – 400 550 – – –	<450 – – – – 1.25 <1 – 200 200 – – –

Sample Data

<450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	1	2	3	4	5	6	7	8	9	10	11
Z Y	<450 – – – – – – 400 600 – – –	<450 – – – – 7.05 <1 – 400 450 – – –	<450 – – – – – – 400 700 – – –	<450 – – – – 6.12 <1 – 400 750 – – –	<450 – – – – – – <450 400 800 12500 17500 5.79 <1	<450 – – – – 5.49 <1 – 400 700 – – –	<450 – – – – – – 400 650 – – –	<450 – – – – 6.86 <1 – 400 750 – – –	<450 – – – – – – 400 650 – – –	<450 – – – – 5.49 <1 <450 400 800 17500 15000 9.50 <1	<450 – – – – – – 400 500 – – –
X W	<450 – – – – 3.71 <1 400 650 – – –	<450 – – – – – – 400 600 – – –	<450 – – – – 4.02 <1 400 650 – – –	<450 – – – – – – 400 700 – – –	<450 – – – – 3.92 <1 400 700 – – –	<450 – – – – – – 400 700 – – –	<450 – – – – 3.20 <1 400 600 – – –	<450 – – – – – – 400 700 – – –	<450 – – – – 2.79 <1 400 700 – – –	<450 – – – – – – 400 700 – – –	<450 – – – – 4.20 <1 400 700 – – –
V U	<450 – – – – 4.07 <1 400 650 – – –	<450 – – – – 3.58 <1 400 600 – – –	<450 – – – – – – 400 450 – – –	<450 – – – – 4.75 <1 200 250 – – –	<450 – – – – – – 400 300 – – –	<450 – – – – 1.30 <1 <450 200 475 6500 8000 1.72 <1	<450 – – – – – – 200 250 – – –	<450 – – – – 1.66 <1 200 200 – – –	<450 – – – – – – 200 175 – – –	<450 – – – – 0.98 200 150 – – –	<450 – – – – – – 200 175 – – –
T S	<450 – – – – 6.02 <1 400 500 – – –	<450 – – – – – – 400 600 – – –	<450 – – – – 5.86 <1 400 500 – – –	<450 – – – – – – 200 250 – – –	<450 – – – – 1.16 <1 <450 200 500 6500 8500 1.21 <1	<450 – – – – – – <450 200 450 6500 12500 2.01 <1	<450 – – – – 1.31 <1 200 300 – – –	<450 – – – – – – 200 200 – – –	<450 – – – – 0.91 200 200 – – –	<450 – – – – – – 200 125 – – –	<450 – – – – 0.62 200 150 – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Z	<450 – – – – 1.53 <1 – 200 150 – – –	<450 – – – – – – – 400 400 – – –	<450 – – – – 5.48 – – 400 550 – – –	<450 – – – – – – – 400 550 – – –	<450 – – – – 6.38 – – 400 550 – – –	<450 – – – – – – – 400 550 – – –	<450 – – – – 6.74 – – 400 550 – – –	<450 – – – – – – – 400 250 – – –	<450 400 650 – – 5.82 <1 <450 400 650 – 12500 17500 6.61 <1	<450 400 650 – – 5.90 <1 <450 400 650 – – 7.15 <1	<450 400 600 – – 6.05 <1 <450 400 700 – – 6.90 <1	<450 400 650 12500 17500 6.69 <1 <450 400 650 – – 6.39 <1	<450 400 650 – – 8.18 <1 <450 400 700 – – 6.72 <1	<450 400 600 – – 6.48 <1 <450 400 700 – 12500 17500 6.43 <1
Y														
X	<450 – – – – – – – 400 750 – – –	<450 – – – – 3.0 <1 <450 400 800 – 12500 15000 7.64 <1	<450 – – – – – – – 450 400 800 – 12500 15000 7.74 <1	<450 – – – – 7.19 – – 400 650 – – –	<450 – – – – 3.17 <1 – 400 700 – – –	<450 – – – – 4.21 <1 – 400 650 – – –	<450 – – – – – – – 400 650 – – –	<450 – – – – 3.48 <1 – 400 650 – – –	<450 400 450 – – 4.27 <1 <450 400 650 – – 7.87 <1	<450 400 450 – – 3.93 <1 <450 400 500 12500 15000 4.65 <1	<450 400 450 – – 4.52 <1 <450 400 400 – – 4.39 <1	<450 400 500 12500 15000 4.16 <1 <450 400 400 – – 4.91 <1	<450 400 550 – – 5.47 <1 <450 400 400 12500 9000 4.60 <1	<450 400 500 – – 4.42 <1 <450 400 500 – – 4.22 <1
W														
V	<450 – – – – 1.2 – – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.08 <1 – 200 125 – – –	<450 – – – – – – – 200 75 – – –	<450 – – – – 1.62 <1 – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.53 <1 – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 400 375 6500 10000 7.97 <1 <450 200 150 – – 1.12 <1	<450 400 375 – – 6.56 <1 <450 200 175 – – 1.17 <1	<450 400 390 – – 7.20 <1 <450 200 200 – – 0.91	<450 400 390 6500 9500 1.08 <1 <450 200 100 – – 1.32 <1	<450 400 350 – – 6.99 <1 <450 200 200 – – 0.89	<450 400 400 12500 7500 7.32 <1 <450 200 125 – – 1.28 <1
U														
T	<450 – – – – – – – 200 150 – – –	<450 – – – – 0.91 – – 200 150 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – – 1.03 – – 200 75 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.58 <1 – 200 100 – – –	<450 – – – – 1.32 <1 – 200 100 – – –	<450 – – – – 1.62 <1 – 200 100 – – –	<450 200 100 – – 0.93 <450 150 200 6500 6000 2.22 <1	<450 200 100 – – 1.08 <450 150 150 125 – – 2.18 <1	<450 200 75 – – 1.32 <450 150 150 – – – 2.82 <1	<450 200 100 6500 3500 1.94 <450 150 125 – – – 2.16 <1	<450 200 175 – – 1.17 <450 200 75 – – – 1.37 <1	<450 200 150 6500 4500 0.75 <450 200 75 – – – 1.09 <1
S														

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
*.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Z	<450 400 700 – – 7.36 <1	<450 400 650 12500 17500 7.07 <1	<450 400 650 – – 6.96 <1	<450 400 600 – – 7.85 <1	<450 400 700 – – 6.57 <1	<450 400 700 – – 5.96 <1	<450 400 650 12500 18000 6.29 <1	<450 400 600 – – 5.70 <1	<450 400 600 – – 7.12 <1	<450 400 600 12500 20000 6.37 <1	<450 – – – – 6.92 <1 400 650 – – –	<450 – – – – 400 675 – – –	<450 – – – – 400 600 – – –	<450 – – – – 400 500 – – –	<450 – – – – 400 500 – – –	<450 – – – – 400 650 – – –
Y	<450 400 725 – – 6.58 <1	<450 400 700 – – 6.38 <1	<450 400 450 12500 15000 4.63 <1	<450 400 675 – – 5.79 <1	<450 400 600 12500 15000 6.91 <1	<450 400 550 – – 6.14 <1	<450 400 550 – – 6.80 <1	<450 400 600 – – 6.07 <1	<450 400 525 – – 6.15 <1	<450 400 550 – – 6.13 <1						
X	<450 400 500 – – 4.44 <1	<450 400 500 – – 4.64 <1	<450 400 400 – – 5.23 <1	<450 400 400 – – 4.74 <1	<450 400 400 – – 4.31 <1	<450 400 600 – – 5.15 <1	<450 400 600 – – 3.55 <1	<450 400 500 – – 3.75 <1	<450 400 500 12500 12500 3.97 <1	<450 400 400 – – 3.35 <1						
W	<450 400 375 12500 12500 4.36 <1	<450 400 400 – – 4.83 <1	<450 400 350 12500 10000 4.45 <1	<450 400 350 – – 4.54 <1	<450 400 325 12500 18000 3.94 <1	<450 400 600 – – 5.76 <1	<450 400 600 12500 17500 7.31 <1	<450 400 600 – – 6.78 <1	<450 400 550 – – 4.44 <1	<450 400 600 – – 4.28 <1						
V	<450 400 350 – – 5.82 <1	<450 400 350 12500 8000 7.53 <1	<450 400 300 – – 6.33 <1	<450 400 350 – – 6.02 <1	<450 400 300 – – 6.55 <1	<450 400 300 12500 8000 6.07 <1	<450 400 400 – – 6.61 <1	<450 400 350 17500 8000 6.69 <1	<450 400 325 – – 6.01 <1	<450 400 350 12500 7500 4.98 <1						
U	<450 200 125 – – 1.98 <1	<450 200 150 – – 1.03 <1	<450 200 100 – – 1.13 <1	<450 200 100 6500 4500 1.05 <1	<450 200 100 – – 1.14 <1	<450 200 100 – – 1.02 <1	<450 200 100 – – 1.16 <1	<450 200 100 – – 1.18 <1	<450 200 175 – – 1.33 <1	<450 200 175 – – 1.35 <1						
T	<450 200 150 – – 1.29 <1	<450 200 150 6500 4500 1.00 <1	<450 400 150 – – 2.18 <1	<450 400 150 – – 1.93 <1	<450 400 150 – – 1.76 <1	<450 200 100 – – 1.28 <1	<450 200 150 6500 4000 1.17 <1	<450 200 100 – – 1.51 <1	<450 200 150 – – 1.00 <1	<450 200 100 – – 1.28 <1	<450 – – – – 200 100 – – –	<450 – – – – 200 100 – – –	<450 – – – – 200 100 – – –	<450 – – – – 200 100 – – –	<450 – – – – 200 100 – – –	<450 – – – – 200 150 – – –
S	<450 200 100 – – 1.36 <1	<450 200 125 – – 1.16 <1	<450 200 250 6500 7500 3.11 <1	<450 200 125 – – 1.19 <1	<450 200 75 – – 0.96	<450 200 100 6500 4000 0.68	<450 200 75 – – 0.94	<450 200 100 – – 1.19 <1	<450 200 150 – – 1.08 <1	<450 200 100 6500 4000 1.08 <1						

SEE ADDITIONAL GRIDS U-91 THROUGH X-150

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	42	43	44	45	46	47	48	49	50	51	52
Z	<450 – – – – 5.03 <1	<450 – – – – – –	<450 – – – – 5.84 <1	<450 – – – – – –	<450 – – – – 5.43 <1	<450 – – – – – –	<450 – – – – 6.08 <1	<450 – – – – – –	<450 – – – – 4.02 <1	<450 – – – – – –	<450 – – – – 3.57 <1
Y	– 400 500 – – – –	– 200 250 – – – –	– 400 600 – – – –	– 400 250 – – – –	– 400 550 – – – –	– 400 500 – – – –	– 400 650 – – – –	– 400 550 – – – –	– 400 600 – – – –	– 400 450 – – – –	– 400 400 – – – –

SEE ADDITIONAL GRIDS U–91 THROUGH X–150

T	<450 – – – – – –	<450 – – – 0.94 – –	<450 – – – – – –	<450 – – – 1.30 <1 –	<450 – – – – – –	<450 – – – 0.92 – –	<450 – – – – – –	<450 – – – <0.43 – –	<450 – – – – – –	<450 – – – 1.24 <1 –	<450 – – – – – –
S	– 200 100 – – – –	– 200 125 – – – –	– 200 100 – – – –	– 200 100 – – – –	– 200 100 – – – –	– 200 125 – – – –	– 200 150 – – – –	– 200 125 – – – –	– 200 125 – – – –	– 200 150 – – – –	– 200 100 – – – –

Sample Data

<450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	53	54	55	56	57	58	59	60	61	62	63
Z	<450 – – – – – – – – – – 400 500 – – – –	<450 – – – – 5.57 <1 – 400 600 – – – –	<450 – – – – – – – – – – 400 600 – – – –	<450 – – – – 6.09 <1 – 400 600 – – – –	<450 – – – – – – – – – – 400 650 – – – –	<450 – – – – 3.93 <1 – 400 700 – – – –	<450 – – – – – – – – – – 400 600 – – – –	<450 – – – – 5.81 <1 – 400 600 – – – –	<450 – – – – – – – – – – 400 550 – – – –	<450 – – – – – – – – – – 400 550 – – – –	<450 – – – – – – – – – – 400 225 – – – –
Y											

SEE ADDITIONAL GRIDS U-91 THROUGH X-150

T	<450 – – – – 1.01 <1 – 200 100 – – – –	<450 – – – – – – – 200 100 – – – –	<450 – – – – 1.02 <1 – 200 125 – – – –	<450 – – – – 0.67 – – 200 150 – – – –	<450 – – – – 1.06 <1 – 200 100 – – – –	<450 – – – – – – – 200 125 – – – –	<450 – – – – 0.59 – – 200 75 – – – –	<450 – – – – – – – 200 100 – – – –	<450 – – – – 1.52 <1 – 200 150 – – – –	<450 – – – – 5.53 <1 – 200 200 – – – –	<450 – – – – 6.09 <1 – 200 200 – – – –
S											

Sample Data

<450 – IM-247/PD Results [$\mu\mu Ci/20cm^2$]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	64	65	66	67	68	69	70	71	72	73	74
Z Y	<450 – – – 5.47 <1 – 400 550 – – –	<450 – – – – – – 200 250 – – –	<450 – – – 5.68 <1 – 400 600 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 5.35 <1 – 400 250 – – –	<450 – – – – – – 400 650 – – –	<450 – – – 6.13 <1 – 400 600 – – –	<450 – – – – – – 400 550 – – –	<450 – – – 7.70 <1 – 400 600 – – –	<450 – – – – – – 400 375 – – –	<450 – – – 3.77 <1 – 400 300 – – –
X W	SEE ADDITIONAL GRIDS		<450 – – – – – – 400 705 – – –	<450 – – – 3.93 <1 – 400 600 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 3.00 <1 – 400 600 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 4.74 <1 – 400 650 – – –	<450 – – – – – – 400 600 – – –	<450 – – – 4.80 <1 – 400 600 – – –	<450 – – – – – – 400 450 – – –
V U	U-91 THROUGH X-150		<450 – – – 3.52 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 2.97 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.79 <1 – 200 100 – – –	<450 – – – – – – 200 125 – – –	<450 – – – 1.94 <1 – 200 125 – – –	<450 – – – – – – 200 125 – – –	<450 – – – 1.60 <1 – 200 100 – – –
T S	<450 – – – – – – 200 200 – – –	<450 – – – 1.76 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.78 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.41 <1 – 200 125 – – –	<450 – – – – – – 200 125 – – –	<450 – – – 1.52 <1 – 200 100 – – –	<450 – – – – – – 200 100 – – –	<450 – – – 1.08 <1 – 200 100 – – –	<450 – – – 1.05 <1 – 200 125 – – –

Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

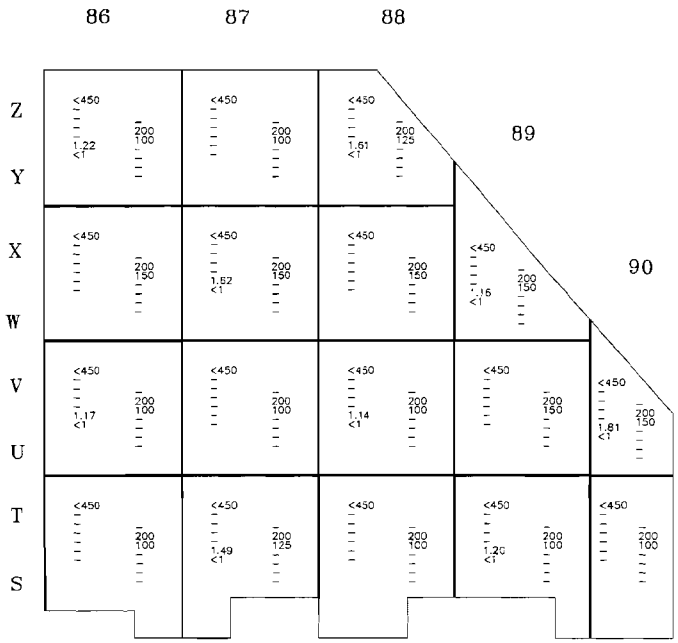
	75	76	77	78	79	80	81	82	83	84	85
Z Y	<450 – – – – – – 400 350 – – –	<450 – – – – 5.62 <1 – 400 300 – – –	<450 – – – – – – – 400 500 – – –	<450 – – – – 5.11 <1 – 400 550 – – –	<450 – – – – – – – 400 550 – – –	<450 – – – – 3.19 <1 – 400 500 – – –	<450 – – – – – – – 200 175 – – –	<450 – – – – 1.06 <1 – 200 125 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – – 1.46 <1 – 200 100 – – –	<450 – – – – – – – 200 150 – – –
X W	<450 – – – – 4.95 <1 – 400 450 – – –	<450 – – – – – – – 400 550 – – –	<450 – – – – 4.69 <1 – 400 550 – – –	<450 – – – – – – – 400 500 – – –	<450 – – – – 3.93 <1 – 400 550 – – –	<450 – – – – – – – 400 600 – – –	<450 – – – – 5.07 <1 – 400 550 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – – 1.30 <1 – 200 150 – – –	<450 – – – – – – – 200 125 – – –	<450 – – – – 1.13 <1 – 200 150 – – –
V U	<450 – – – – 1.21 <1 – 200 100 – – –	<450 – – – – 1.24 <1 – 200 200 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – – 1.31 <1 – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.42 <1 – 200 150 – – –	<450 – – – – – – – 200 125 – – –	<450 – – – – 1.48 <1 – 200 125 – – –	<450 – – – – – – – 200 125 – – –	<450 – – – – 1.34 <1 – 200 200 – – –	<450 – – – – – – – 200 150 – – –
T S	<450 – – – – 1.45 <1 – 200 100 – – –	<450 – – – – – – – 200 150 – – –	<450 – – – – 1.17 <1 – 200 200 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.30 <1 – 200 150 – – –	<450 – – – – – – – 200 200 – – –	<450 – – – – 5.30 <1 – 400 375 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.32 <1 – 200 100 – – –	<450 – – – – – – – 200 100 – – –	<450 – – – – 1.15 <1 – 200 100 – – –

Sample Data

< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas



Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (-HV-2 GROSS) [bkg.]
7300 – IM-253/PD (-HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	91	92	93	94	95	96	97	98	99	100	101	102
X	<450 400 475 – – 4.18 <1	<450 400 550 – – 3.85 <1	<450 400 600 – – 4.12 <1	<450 400 500 – – 4.03 <1	<450 400 525 – – 4.05 <1	<450 400 300 12500 12500 4.67 <1	<450 400 250 – – 4.44 <1	<450 400 225 12500 8500 4.08 <1	<450 400 300 – – 3.38 <1	<450 400 275 12500 15000 3.60 <1	<450 400 225 – – 3.11 <1	<450 400 200 – – 3.59 <1
W	<450 400 650 12500 17500 3.16 <1	<450 400 700 – – 3.96 <1	<450 400 650 12500 15000 3.67 <1	<450 400 600 – – 3.62 <1	<450 400 575 – – 3.89 <1	<450 400 350 – – 4.12 <1	<450 400 400 – – 3.50 <1	<450 400 500 – – 3.56 <1	<450 400 550 – – 5.59 <1	<450 400 575 – – 5.41 <1	<450 400 300 12500 17500 5.70 <1	<450 400 300 – – 6.56 <1
V	<450 400 350 – – 5.60 <1	<450 400 450 – – 6.30 <1	<450 400 400 – – 5.44 <1	<450 400 400 – – 6.12 <1	<450 400 400 – – 5.12 <1	<450 200 150 6500 4500 1.41 <1	<450 200 150 – – 1.07 <1	<450 200 150 6500 4500 4.39 <1	<450 400 300 – – 5.85 <1	<450 400 350 – – 5.50 <1	<450 400 375 – – 1.12 <1	<450 400 400 – – 0.95
U	<450 200 125 6500 4000 2.19 <1	<450 200 125 – – 1.93 <1	<450 200 100 6500 4250 2.08 <1	<450 200 125 – – 2.21 <1	<450 200 125 6500 4000 1.26 <1	<450 200 125 – – 1.57 <1	<450 200 125 – – 1.24 <1	<450 200 100 – – 1.46 <1	<450 200 125 – – 1.85 <1	<450 200 200 – – 1.26 <1	<450 200 200 6500 5000 0.82	<450 200 100 – – 6.26 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124
X	<450 400 250 – – 3.65 <1	<450 400 300 – – 3.14 <1	<450 400 225 – – 3.20 <1	<450 400 400 12500 15000 3.16 <1	<450 400 450 – – 3.86 <1	<450 400 425 12500 12500 3.08 <1	<450 400 475 – – 3.44 <1	<450 400 450 – – 2.89 <1	<450 400 500 – – 3.17 <1	<450 400 500 – – 2.60 <1	<450 400 500 – – 2.38 <1	<450 400 400 – – 3.62 <1	<450 400 400 – – 2.80 <1	<450 400 375 12500 15000 2.79 <1	<450 400 400 – – 2.87 <1	<450 400 425 12500 10000 4.06 <1	<450 400 350 – – 2.96 <1	<450 400 300 – – 2.91 <1	<450 400 425 – – 2.42 <1	<450 400 300 – – 2.50 <1	<450 400 350 – – 2.72 <1	<450 400 400 – – 2.61 <1
W	<450 400 600 12500 17500 4.86 <1	<450 400 550 – – 5.52 <1	<450 400 450 – – 5.67 <1	<450 400 700 – – 5.91 <1	<450 400 600 – – 5.61 <1	<450 400 700 – – 5.87 <1	<450 400 750 – – 7.01 <1	<450 400 800 – – 6.76 <1	<450 200 200 12500 17500 5.01 <1	<450 400 450 – – 4.81 <1	<450 400 650 12500 9750 4.82 <1	<450 400 650 – – 4.65 <1	<450 400 600 – – 5.06 <1	<450 400 625 – – 4.79 <1	<450 400 650 – – 5.67 <1	<450 400 650 – – 5.26 <1	<450 400 700 – – 4.79 <1	<450 400 625 – – 4.86 <1	<450 400 300 12500 10000 4.57 <1	<450 400 400 – – 5.22 <1	<450 400 325 12500 10000 4.22 <1	<450 400 375 – – 3.71 <1
V	<450 400 400 – – 0.98	<450 400 400 – – 5.65 <1	<450 400 500 – – 5.63 <1	<450 400 400 12500 8000 8.17 <1	<450 400 450 – – 6.53 <1	<450 400 350 12500 8000 6.36 <1	<450 400 350 – – 6.52 <1	<450 200 200 12500 15000 6.43 <1	<450 200 200 – – 1.20 <1	<450 400 300 – – 5.94 <1	<450 200 200 – – 0.86	<450 400 300 – – 4.08 <1	<450 200 200 – – 0.96	<450 400 300 12500 8500 5.99 <1	<450 400 350 – – 7.91 <1	<450 400 350 12500 8500 6.05 <1	<450 400 350 – – 6.75 <1	<450 400 350 12500 8000 6.69 <1	<450 200 300 – – 6.04 <1	<450 400 350 – – 6.40 <1	<450 400 300 – – 7.63 <1	<450 200 250 – – 0.66
U	<450 200 100 6500 4500 5.53 <1	<450 200 100 – – 6.19 <1	<450 200 100 6500 4500 0.40	<450 200 100 – – 0.84	<450 200 150 – – 0.65	<450 200 150 – – 0.76	<450 200 200 – – 0.95	<450 200 200 – – 1.12 <1	<450 200 100 6500 5500 1.20 <1	<450 200 100 – – 0.99	<450 200 150 6500 6000 1.24 <1	<450 200 150 – – 0.88	<450 200 200 6500 4000 1.11 <1	<450 200 200 – – 0.82	<450 200 150 – – 1.47 <1	<450 200 150 – – 1.21 <1	<450 200 150 – – 0.67	<450 200 150 – – 1.10 <1	<450 200 150 6500 3750 0.46	<450 200 200 – – 1.20 <1	<450 200 200 6500 4000 0.64	<450 200 150 – – 1.21 <1

Sample Data

<450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Adjacent Areas

	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
X	<450 400 500 – – 2.68 <1	<450 400 350 12500 10000 2.39 <1	<450 400 400 – – 2.98 <1	<450 400 400 12500 10000 2.32 <1	<450 400 450 – – 2.80 <1	<450 400 450 – – 3.88 <1	<450 400 450 – – 3.73 <1	<450 400 500 – – 3.42 <1	<450 400 450 – – 2.95 <1	<450 400 400 – – 3.65 <1	<450 400 400 – – 5.25 <1	<450 400 475 12500 9750 3.47 <1	<450 400 375 – – 3.11 <1	<450 400 375 12500 6000 3.20 <1	<450 400 400 – – 2.33 <1	<450 400 400 – – 2.13 <1	<450 400 500 – – 2.80 <1	<450 400 500 – – 3.87 <1	<450 400 500 12500 17000 3.29 <1	<450 400 400 – – 4.16 <1	<450 400 400 – – 3.73 <1	<450 400 550 12500 9000 3.30 <1
W	<450 400 300 – – 3.84 <1	<450 400 400 – – 3.38 <1	<450 400 550 – – 4.60 <1	<450 400 600 – – 5.31 <1	<450 400 550 – – 5.23 <1	<450 400 500 – – 5.12 <1	<450 400 350 12500 15000 5.44 <1	<450 400 325 – – 5.40 <1	<450 400 650 12500 12500 5.72 <1	<450 400 500 – – 6.29 <1	<450 400 700 – – 6.09 <1	<450 400 600 – – 6.50 <1	<450 400 400 – – 5.07 <1	<450 400 300 – – 5.82 <1	<450 400 550 – – 5.58 <1	<450 400 600 – – 5.27 <1	<450 400 650 12500 15000 5.90 <1	<450 400 650 – – 5.61 <1	<450 400 700 – – 6.45 <1	<450 400 700 – – 5.13 <1	<450 400 700 – – 5.81 <1	<450 400 700 – – 5.47 <1
V	<450 200 175 – – 0.51	<450 400 500 12500 7000 6.75 <1	<450 400 500 – – 7.35 <1	<450 400 500 12500 7500 6.51 <1	<450 400 550 – – 6.21 <1	<450 400 600 12500 7500 0.48	<450 200 200 – – 1.21 <1	<450 200 150 – – 0.55	<450 400 450 – – 1.06 <1	<450 400 350 – – 6.95 <1	<450 400 425 – – 6.94 <1	<450 200 250 6500 5500 4.44 <1	<450 400 275 – – 6.71 <1	<450 400 375 12500 6000 7.02 <1	<450 400 350 – – 7.10 <1	<450 400 325 12500 6750 1.31 <1	<450 200 200 – – 1.36 <1	<450 200 200 – – 1.30 <1	<450 200 200 – – 1.00 <1	<450 200 200 – – 0.95	<450 200 200 – – 1.65 <1	<450 400 450 12500 8000 7.58 <1
U	<450 200 200 6500 3500 0.44	<450 200 200 – – 0.79	<450 200 175 – – 0.90	<450 200 200 – – 0.73	<450 200 150 – – 0.94	<450 200 200 – – 1.05 <1	<450 200 200 6500 3750 1.32 <1	<450 200 175 – – 0.79	<450 200 150 6500 3500 7.28 <1	<450 200 150 – – 0.55	<450 200 175 6500 5000 1.04 <1	<450 200 175 – – 1.43 <1	<450 200 175 – – 1.72 <1	<450 200 175 – – 1.72 <1	<450 200 200 – – 1.27 <1	<450 200 175 – – 6.50 <1	<450 200 175 6500 4500 1.29 <1	<450 200 175 – – 1.15 <1	<450 200 150 6500 4500 0.87	<450 200 150 – – 1.70 <1	<450 200 150 6500 4000 1.14 <1	<450 200 175 – – 1.30 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Map, Adjacent Areas

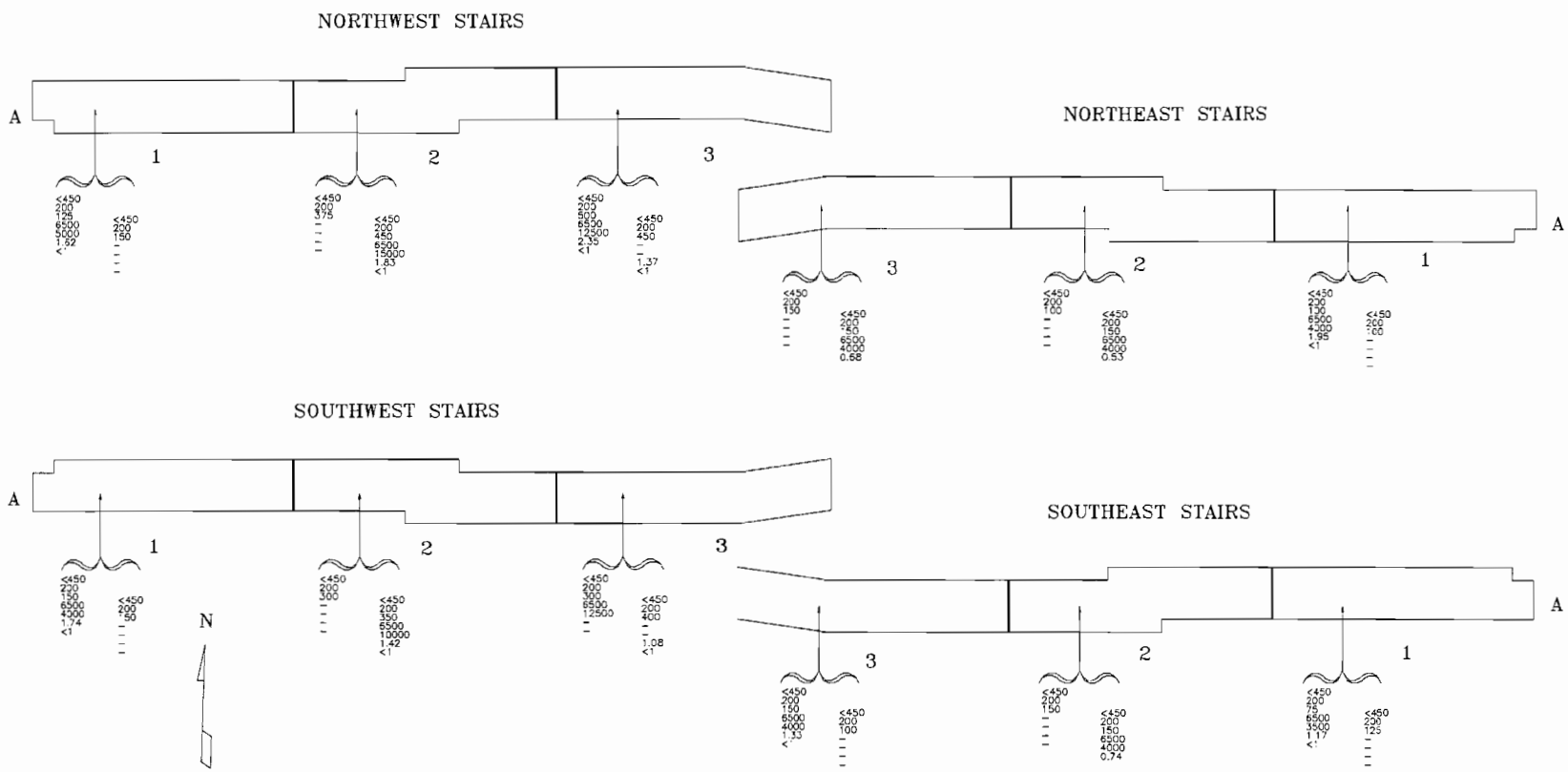
	147	148	149	150
X	<450 400 750 – – 3.28 <1	<450 400 500 12500 6500 3.64 <1	<450 400 500 – – 2.75 <1	<450 400 450 – – 3.22 <1
W	<450 400 600 – – 5.35 <1	<450 400 650 – – 6.32 <1	<450 400 650 – – 5.63 <1	<450 400 650 – – 5.93 <1
V	<450 400 400 – – 6.77 <1	<450 400 430 12500 8000 5.85 <1	<450 400 450 – – 6.74 <1	<450 400 450 12500 8000 6.06 <1
U	<450 200 175 – – 1.40 <1	<450 200 190 – – 1.26 <1	<450 200 210 – – 2.07 <1	<450 200 200 – – 1.33 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

e. Localized Grid Maps, Stairs

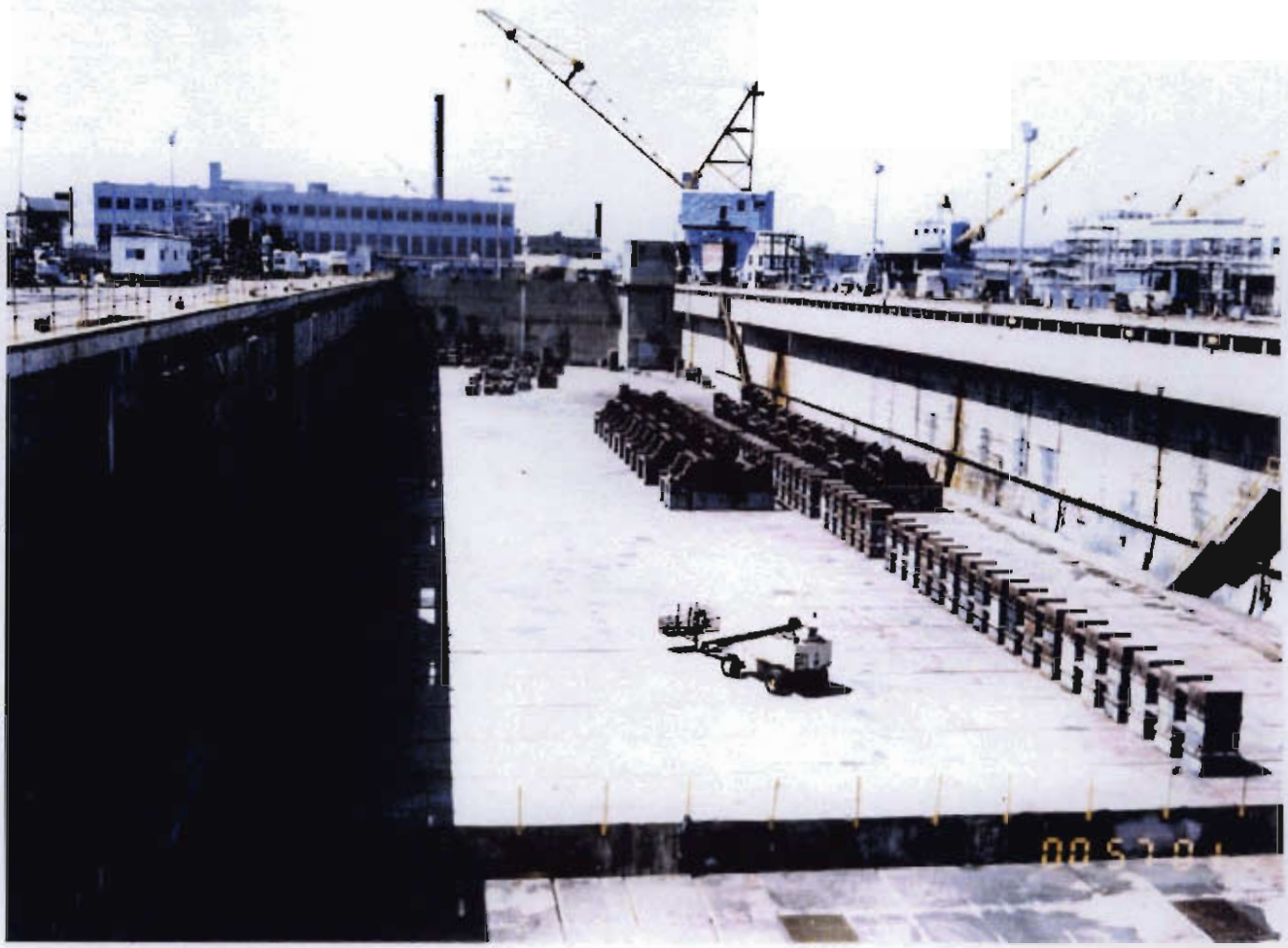


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

5. Dry Dock 5

f. Prior Photographs



DD 5 Looking West

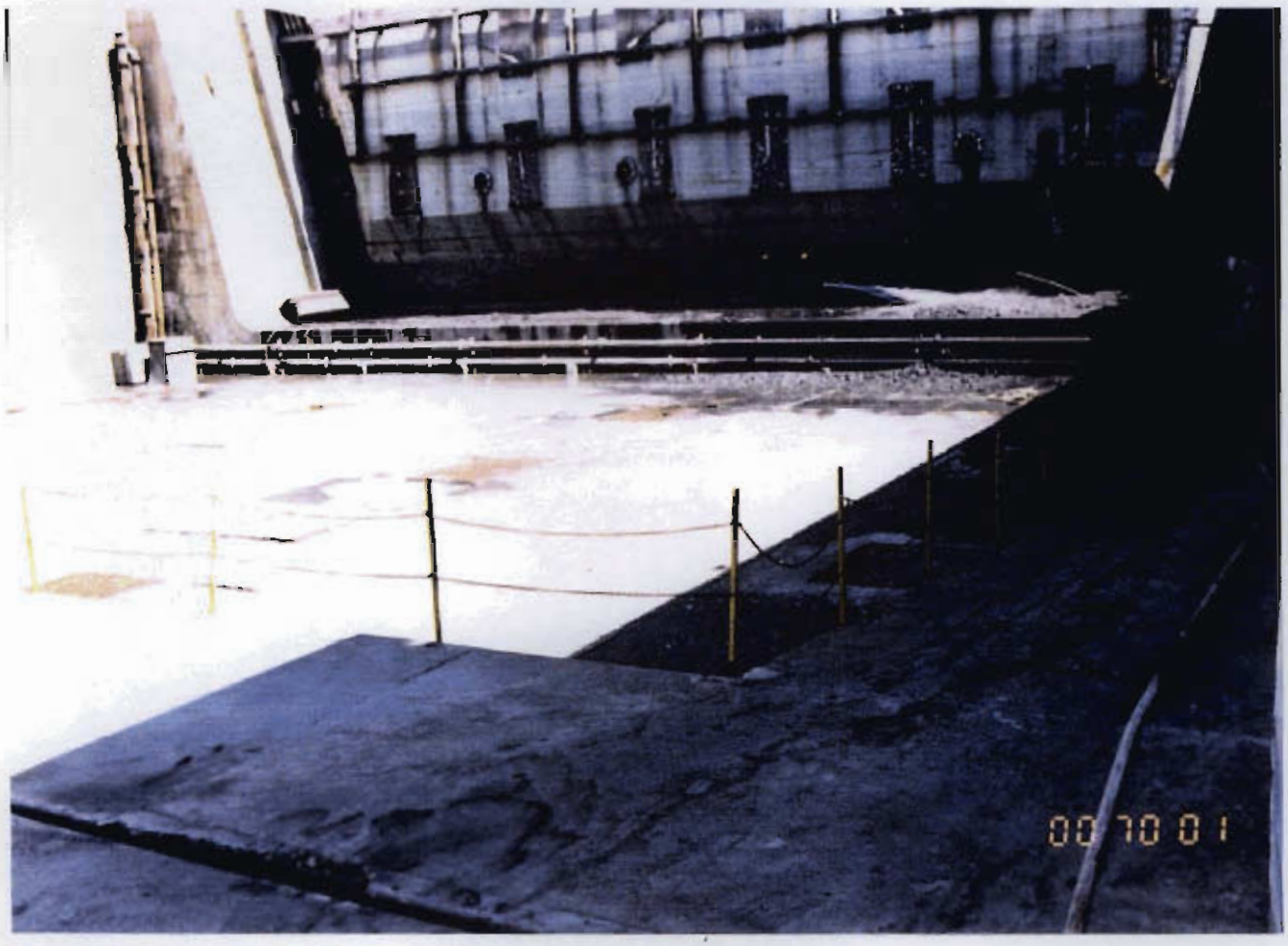
5. Dry Dock 5

f. Prior Photographs

DD 5 Looking East

5. Dry Dock 5

f. Prior Photographs



DD 5 Looking East

5. Dry Dock 5

g. During Photographs

DD 5 Looking East

5. Dry Dock 5

h. During Photographs

DD 5 Floor

5. Dry Dock 5

h. After Photographs

DD 5 Looking West

5. Dry Dock 5

h. After Photographs

DD 5 Looking East

5. Dry Dock 5

h. After Photographs

DD 5 Adjacent Area Looking East

5. Dry Dock 5

h. After Photographs

DD 5 Adjacent Area Looking West

5. Dry Dock 5

h. After Photographs

DD 5 Typical Stairwell

6. ARDM 3

a. Introduction:

Auxiliary Repair Dry Dock Medium (ARDM) is a floating dry dock consisting of a dry dock basin and companion ways that are used for offices, storage areas, work areas and machinery rooms.

(1) **Description:**

The ARDM 3 is approximately 550' long by 85' wide constructed and is constructed of welded steel plates that have been painted. The dry dock basin is approximately 450' long by 60' wide and 40' deep with the floor layered with concrete.

(2) **Brief History:**

(a) **Use:** ARDM 3 was used to dry dock naval vessels which were scheduled for repairs or maintenance.

(b) **Radiological History:** The ARDM 3 basin area was controlled as a Radiologically Controlled Area (RCA) when nuclear powered ships entered for availability. The basin, as well as other areas within the ARDM, may have been controlled as Controlled Surface Contamination Areas (CSCAs), radiation areas and radioactive material storage areas. Radioactive material was regularly transported on and off of this vessel.

Although loose surface contamination greater than ten thousand $\mu\mu Ci/100cm^2$ has been found on the hulls of ships docked in the ARDM, there is no history of radiological spills in the ARDM itself. Loose surface contamination levels were maintained less than 450 $\mu\mu Ci/100cm^2$.

(3) **Survey Requirements:**

Group 2, Group 3, Nuclear Ship Berthing Area and Dry Dock surveys were required for this vessel.

b. Discussion:

The walls and specified areas of the floor were divided into approximately 20' by 20' grid sections. Each 20' by 20' grid contained two, 3' by 3' subsections which were placed in the areas of highest potential for contamination. Areas which were used to store radioactive material and portable effluent tanks, or which were located below contaminated discharges during docking periods, were divided into approximately 5' by 5' grid sections using Group 3 survey requirements.

6. ARDM 3

Each 3' by 3' subsection was surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). A minimum of 50% of the 3' by 3' subsections were surveyed using the IM-253/PD (HV-2 GROSS). Each 5' by 5' grid was surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). A minimum of 25% of the 5' by 5' grids were surveyed using the IM-253/PD (HV-2 GROSS). Additionally, a solid material sample was taken from each 5' by 5' and each 20' by 20' floor grid.

Topside adjacent areas were categorized using nuclear ships berthing area and Group 2 survey requirements. These areas were divided into approximately 10' by 10' grid sections. Each grid contains two, 3' by 3' subsections which were located in the area of highest potential for contamination. Grids A2 through A7 represent the catwalk topside of the ARDM caisson. The catwalk is constructed of metal deck grate material. Subsequently, solid material samples could not be obtained from this area. Nevertheless, a minimum of 50% of the grids in the adjacent area was surveyed.

One of these 3' by 3' subsections was surveyed using the IM-247/PD and the other using the IM-253/PD (HV-1 PHA). Surveys using the IM-253/PD (HV-2 GROSS) were not required unless prior surveys resulted in greater than 450 μμCi/20cm^2 or greater than twice background. Additionally, a solid material sample was taken from a minimum of 50% of the 10' by 10' grids and each subsection that resulted in greater than 450 μμCi/20cm^2 or greater than twice background.

Individual backgrounds were used for this floating drydock. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the concrete pours were 40, 100, 2,750 counts per minute respectively. These radiation levels were based upon backgrounds obtained from Pier U. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the metal bulkhead were 40, 75, 1,750 counts per minute respectively. These radiation levels were based upon backgrounds obtained from the YC-754 Barge.

ARDM 3 was divided into 473 grids. A total of 320 solid material samples were taken. Each solid sample was removed from the grid location that indicated the area of highest potential for contamination. The following naturally occurring radionuclides were typical isotopes identified during analysis of solid material samples: lead 212 and lead 214.

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than 450 μμCi/20cm^2.

6. ARDM 3

Surveys performed with the IM-253/PD (HV-1 PHA) detected seven areas greater than or equal to twice background.

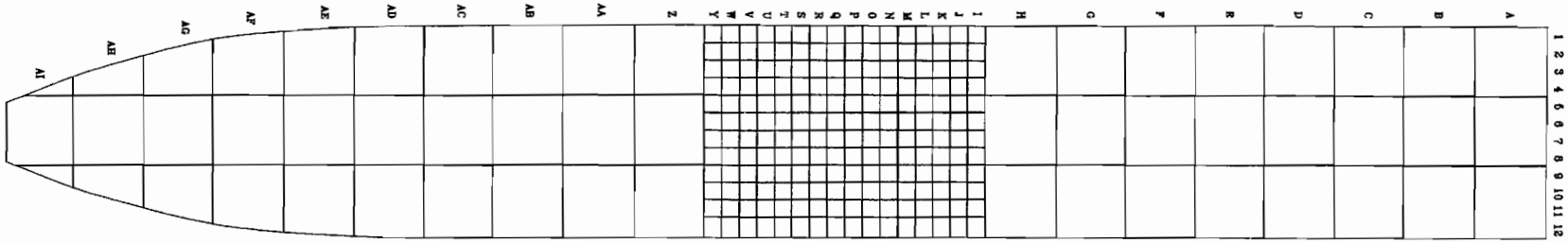
Surveys performed with the IM-253/PD (HV-2 GROSS) detected three areas greater than or equal to twice background.

Analysis performed on all solid material samples with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from a low of less than 0.22 pCi/g to a high of 7.71 pCi/g.

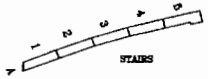
Analysis performed on solid material samples with the MCA for specific cobalt 60, indicated that all solid material samples were less than 1 pCi/g for non-paint samples and less than 3 pCi/g for paint samples.

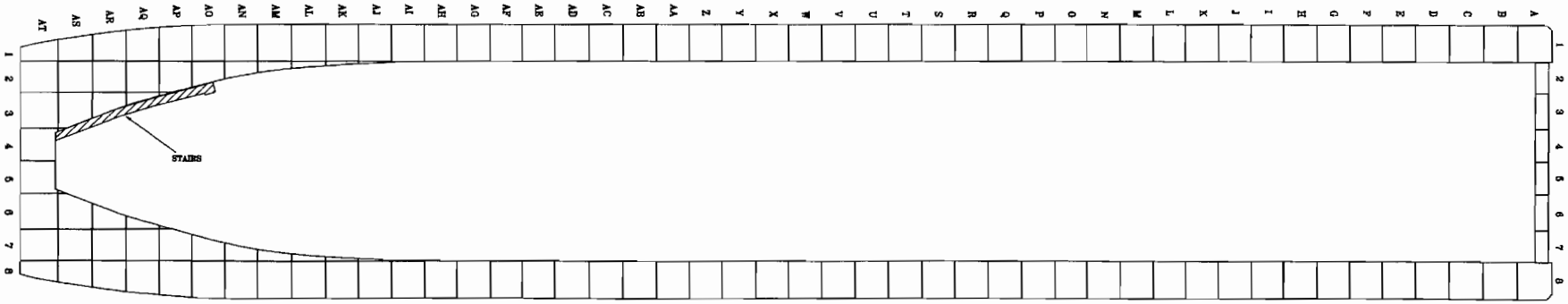
6. ARDM 3

d. Overall Grid Map (FLOOR & ADJACENT)



FLOOR

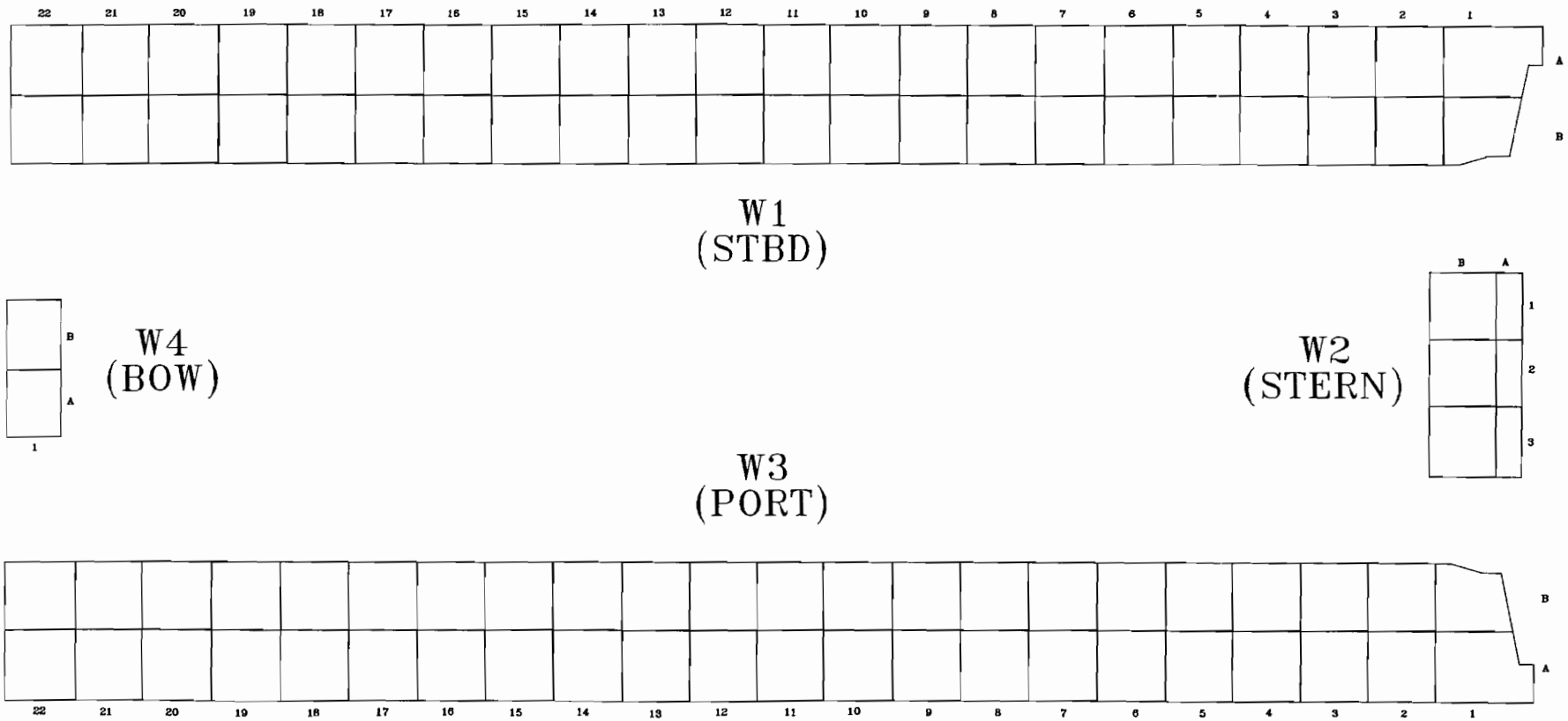




ADJACENT

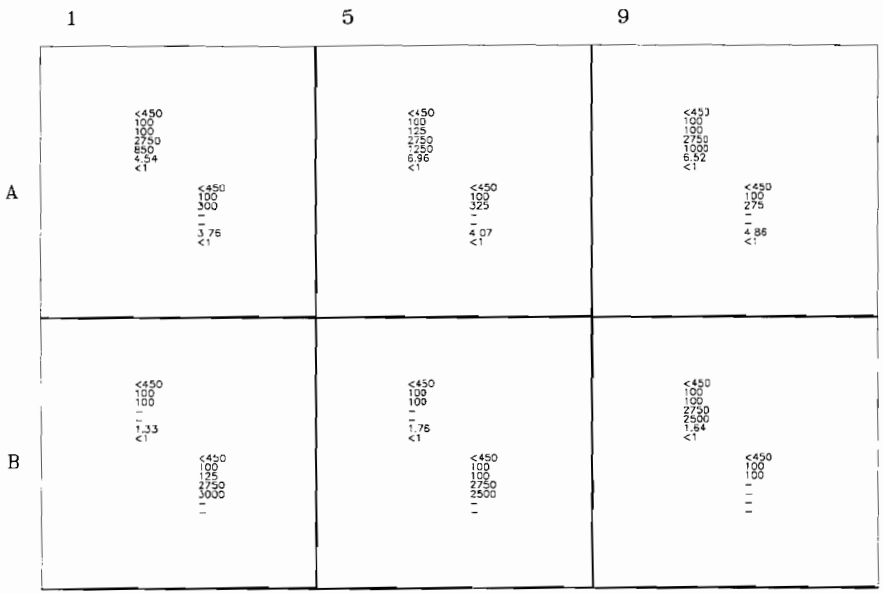
6. ARDM 3

d. Overall Grid Map (WALLS)



6. ARDM 3

e. Localized Grid Maps (FLOOR)

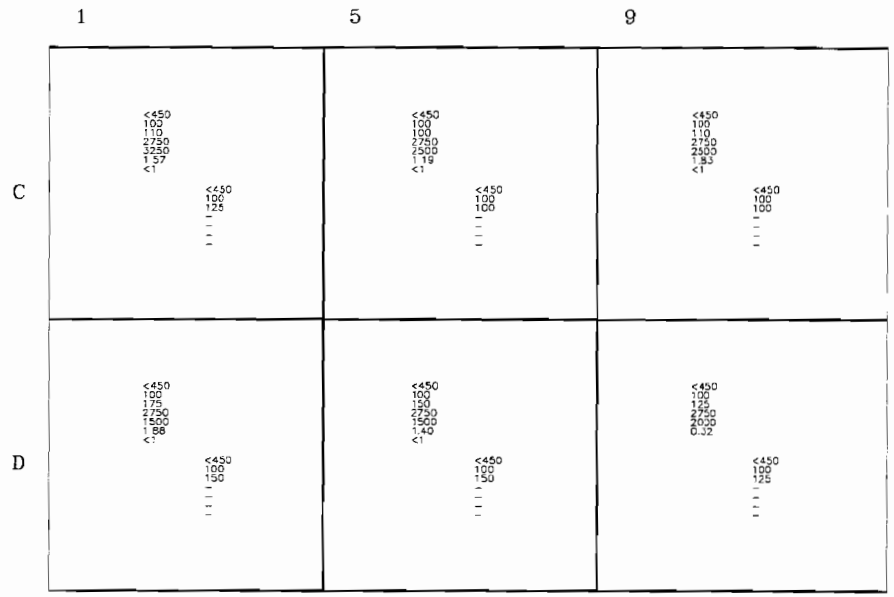


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

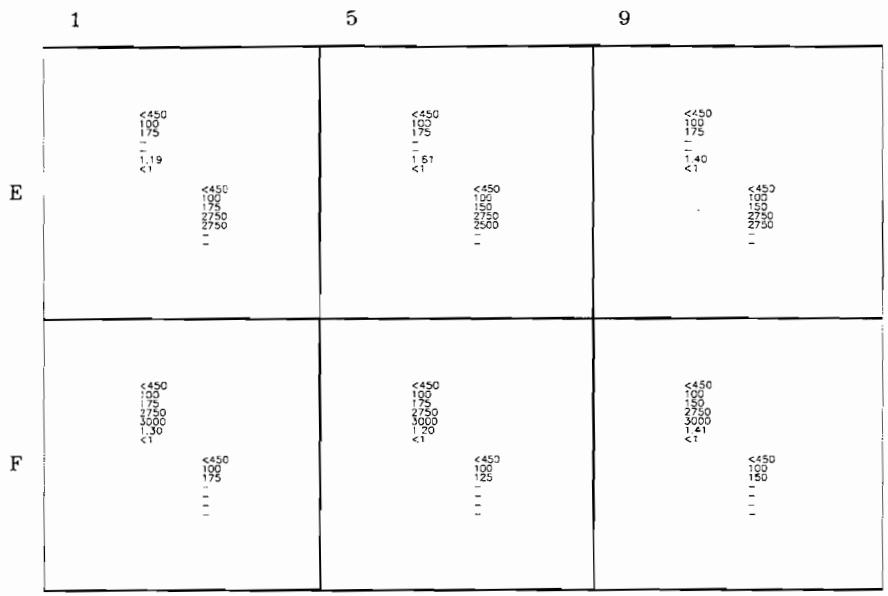


Sample Data

<450 – IM-247/PD Results [µCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7300 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

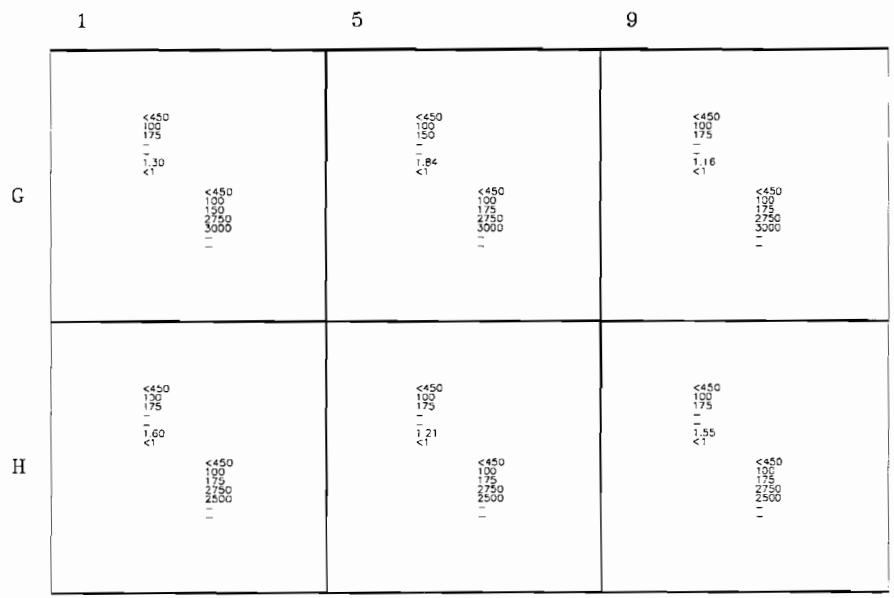


Sample Data

<450 – IM-247/PD Results [μμC/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

	1	2	3	4	5	6	7	8	9	10	11	12
I	<450 100 150 2750 3000 1.89 <1	<450 100 150 – – 1.05 <1	<450 100 150 – – 1.12 <1	<450 100 150 – – 0.69 <1	<450 100 150 2750 2750 1.16 <1	<450 100 150 – – 0.84 <1	<450 100 150 – – 1.81 <1	<450 100 150 – – 1.42 <1	<450 100 150 2750 2750 1.14 <1	<450 100 150 – – 1.22 <1	<450 100 150 – – 3.36 <1	<450 100 150 – – 1.35 <1
J	<450 100 150 – – 2.00 <1	<450 100 150 2750 2750 1.90 <1	<450 100 150 – – 1.44 <1	<450 100 175 – – 1.30 <1	<450 100 150 – – 1.44 <1	<450 100 175 2750 2750 1.48 <1	<450 100 150 – – 1.97 <1	<450 100 150 – – 1.81 <1	<450 100 150 – – 1.03 <1	<450 100 150 2750 2750 1.34 <1	<450 100 150 – – 1.30 <1	<450 100 150 2750 3500 0.89
K	<450 100 150 – – 1.76 <1	<450 100 150 – – 0.92	<450 100 150 2750 2750 1.16 <1	<450 100 150 – – <0.56	<450 100 150 – – 1.40 <1	<450 100 150 – – 1.98 <1	<450 100 150 – – 1.29 <1	<450 100 150 2750 2750 0.90	<450 100 150 – – 1.22 <1	<450 100 150 – – 1.70 <1	<450 100 150 2750 2750 1.05 <1	<450 100 150 2750 2500 0.92
L	<450 100 125 – – 0.56	<450 100 150 – – 2.15 <1	<450 100 150 – – 1.68 <1	<450 100 150 2750 2750 1.98 <1	<450 100 150 – – 0.94	<450 100 150 2750 2750 0.78	<450 100 150 – – 1.40 <1	<450 100 150 2750 2500 1.08 <1	<450 100 150 2750 2750 1.16 <1	<450 100 150 – – 1.40 <1	<450 100 150 – – 0.69	<450 100 150 – – 1.01 <1
M	<450 100 150 – – 1.00 <1	<450 100 150 – – 2.50 <1	<450 100 175 – – 0.91	<450 100 175 – – 0.71	<450 100 150 – – 0.62	<450 100 150 – – 0.92	<450 100 175 – – 0.83	<450 100 175 – – 1.08 <1	<450 100 150 – – 0.85	<450 100 175 – – 2.28 <1	<450 100 175 – – 2.03 <1	<450 100 150 – – 1.70 <1
N	<450 100 150 – – 1.28 <1	<450 100 150 2750 3500 1.61 <1	<450 100 150 – – 1.34 <1	<450 100 150 – – 1.32 <1	<450 100 150 2750 3000 1.14 <1	<450 100 150 – – 1.44 <1	<450 100 150 – – 0.81	<450 100 150 – – 0.75	<450 100 150 2750 3000 1.50 <1	<450 100 150 – – <0.45	<450 100 150 – – 1.94 <1	<450 100 150 – – 1.95 <1
O	<450 100 150 – – 1.80 <1	<450 100 150 – – 1.24 <1	<450 100 150 2750 3500 1.15 <1	<450 100 100 – – 1.57 <1	<450 100 150 – – 0.79	<450 100 150 2750 2750 1.18 <1	<450 100 150 – – 1.04 <1	<450 100 100 – – 1.15 <1	<450 100 150 2750 3000 1.12 <1	<450 100 150 – – 1.32 <1	<450 100 175 – – 0.93	<450 100 150 – – 0.72
P	<450 100 125 2750 3500 1.11 <1	<450 100 150 – – 1.26 <1	<450 100 100 – – 0.60	<450 100 100 2750 3500 1.06 <1	<450 100 100 – – 0.99	<450 100 100 – – 0.78	<450 100 100 2750 2500 1.50 <1	<450 100 150 – – 1.43 <1	<450 100 175 – – 2.14 <1	<450 100 150 – – 1.75 <1	<450 100 175 – – 1.65 <1	<450 100 150 2750 2500 2.13 <1

Sample Data

< 450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

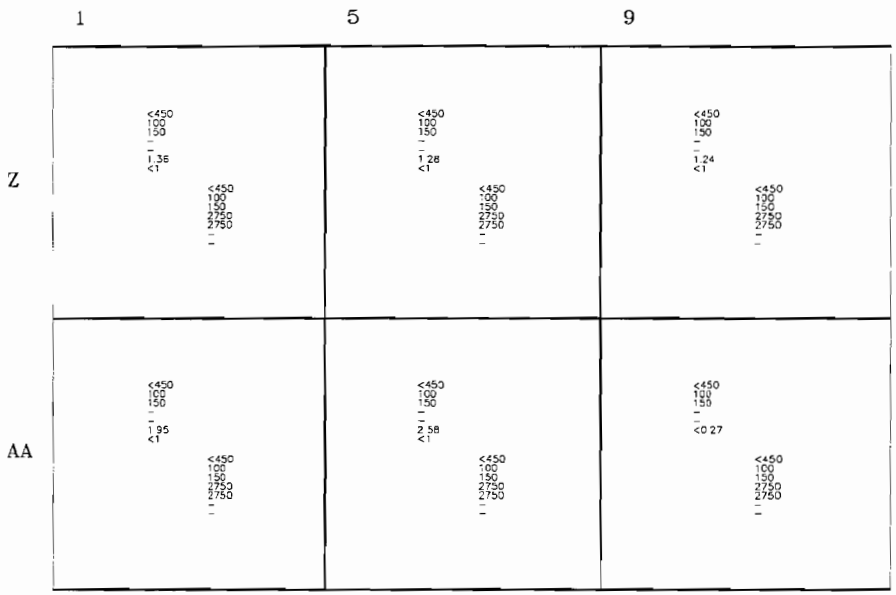
	1	2	3	4	5	6	7	8	9	10	11	12
Q	<450 100 100 – – 1.40 <1	<450 100 150 2750 3000 1.71 <1	<450 100 150 – – 1.91 <1	<450 100 175 – – 1.88 <1	<450 100 150 – – 1.62 <1	<450 100 150 – – 1.90 <1	<450 100 150 2750 3000 <0.22	<450 100 150 – – 1.31 <1	<450 100 175 – – 1.43 <1	<450 100 175 2750 2750 1.08 <1	<450 100 175 2750 3000 0.79	<450 100 150 – – 1.23 <1
R	<450 100 100 – – 1.02 <1	<450 100 150 – – 1.50 <1	<450 100 150 2750 3000 1.80 <1	<450 100 150 – – 2.19 <1	<450 100 100 – – 1.38 <1	<450 100 150 2750 2500 0.73	<450 100 100 – – <0.27	<450 100 150 – – 1.44 <1	<450 100 100 2750 2750 1.35 <1	<450 100 100 – – 1.37 <1	<450 100 175 – – 1.14 <1	<450 100 150 – – 1.23 <1
S	<450 100 100 2750 3000 0.92	<450 100 150 – – 1.44 <1	<450 100 100 2750 3000 1.41 <1	<450 100 150 – – 1.35 <1	<450 100 100 2750 2500 0.67	<450 100 150 – – 1.06 <1	<450 100 150 – – 1.05 <1	<450 100 100 2750 3000 1.00 <1	<450 100 100 – – 1.34 <1	<450 100 150 – – 1.07 <1	<450 100 150 – – 1.45 <1	<450 100 150 – – 2.21 <1
T	<450 100 150 – – 2.03 <1	<450 100 150 – – 1.58 <1	<450 100 150 2750 3000 1.45 <1	<450 100 150 – – 1.58 <1	<450 100 100 2750 2500 1.38 <1	<450 100 150 – – 0.69	<450 100 150 2750 2750 2.07 <1	<450 100 150 – – 1.30 <1	<450 100 100 – – 1.15 <1	<450 100 150 – – 1.99 <1	<450 100 150 – – 1.25 <1	<450 100 150 – – 1.33 <1
U	<450 100 100 – – 0.84	<450 100 150 2750 3000 1.33 <1	<450 100 100 – – 1.07 <1	<450 100 175 – – 0.68	<450 100 175 – – 1.34 <1	<450 100 100 – – 1.30 <1	<450 100 100 – – 1.80 <1	<450 100 150 2750 3000 1.31 <1	<450 100 100 – – 1.66 <1	<450 100 150 – – 1.47 <1	<450 100 100 – – 1.57 <1	<450 100 100 2750 2500 2.20 <1
V	<450 100 100 – – 1.65 <1	<450 100 175 – – 1.37 <1	<450 100 175 – – 2.04 <1	<450 100 150 – – 1.33 <1	<450 100 150 – – 1.19 <1	<450 100 150 – – 1.15 <1	<450 100 150 – – 1.90 <1	<450 100 150 2750 2750 1.08 <1	<450 100 150 – – 1.29 <1	<450 100 150 2750 3000 1.51 <1	<450 100 150 – – 1.24 <1	<450 100 150 2750 3500 0.60
W	<450 100 100 2750 3500 1.14 <1	<450 100 100 – – 1.36 <1	<450 100 150 – – 1.07 <1	<450 100 100 – – 1.40 <1	<450 100 150 – – 1.00 <1	<450 100 150 2750 2500 1.41 <1	<450 100 150 – – 0.50	<450 100 175 – – 1.62 <1	<450 100 150 – – 1.12 <1	<450 100 150 – – 0.85	<450 100 150 – – 0.93	<450 100 100 2750 2500 0.91
Y	<450 100 100 – – 1.22 <1	<450 100 150 – – 1.54 <1	<450 100 175 – – 0.76	<450 100 175 – – 1.61 <1	<450 100 150 – – 2.15 <1	<450 100 150 – – 1.65 <1	<450 100 150 – – 0.65	<450 100 150 – – 0.37	<450 100 150 – – 0.78	<450 100 150 – – 1.60 <1	<450 100 150 – – 1.16 <1	<450 100 150 – – 1.66 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

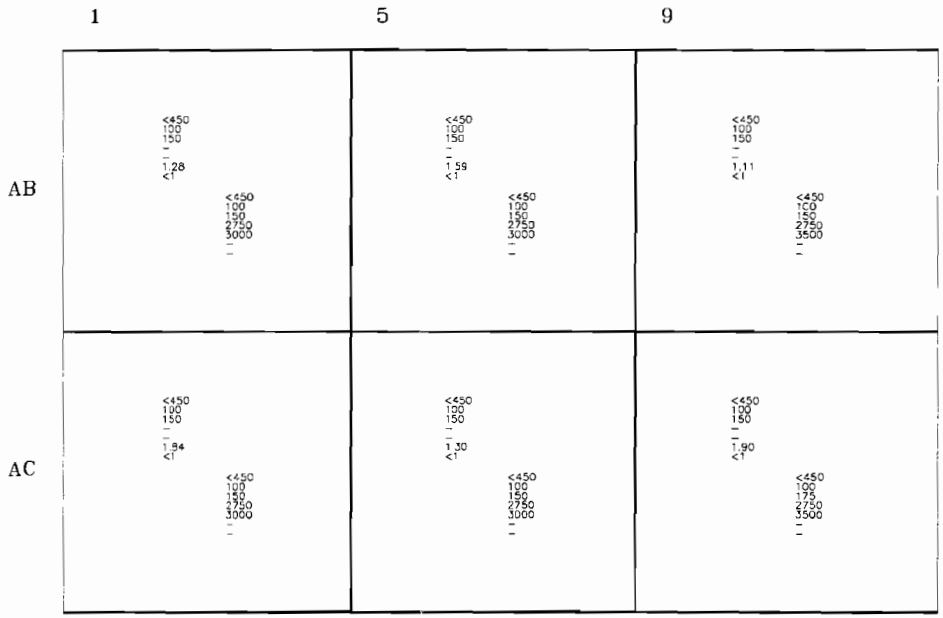


Sample Data

< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

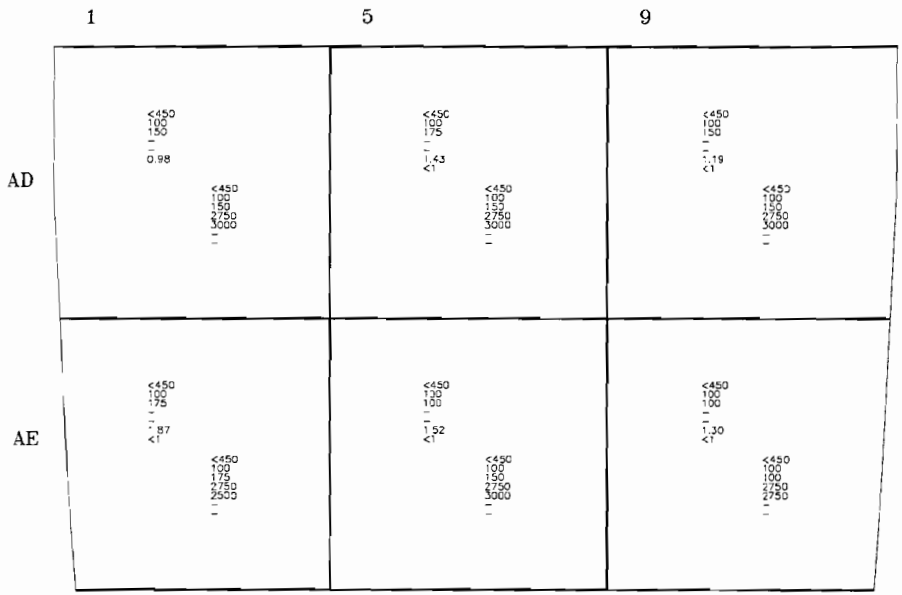


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

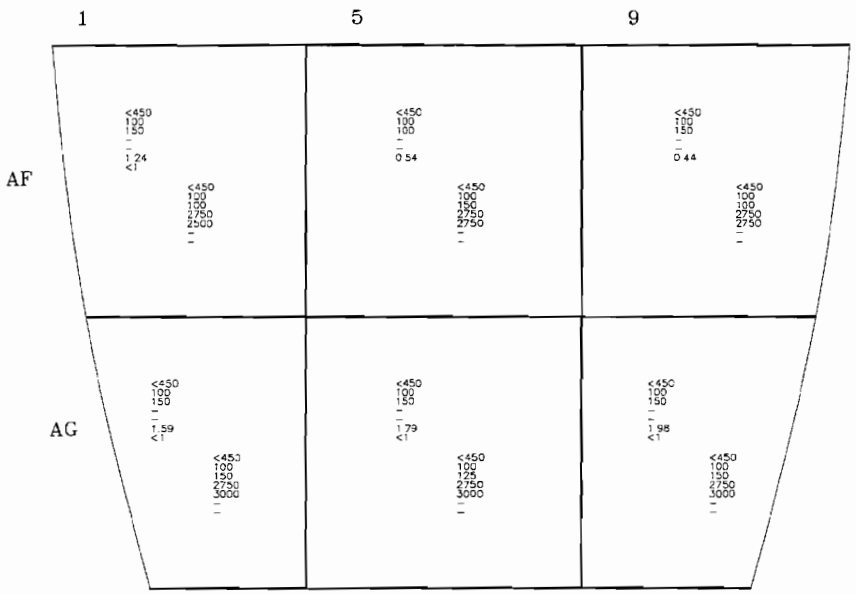


Sample Data

<450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

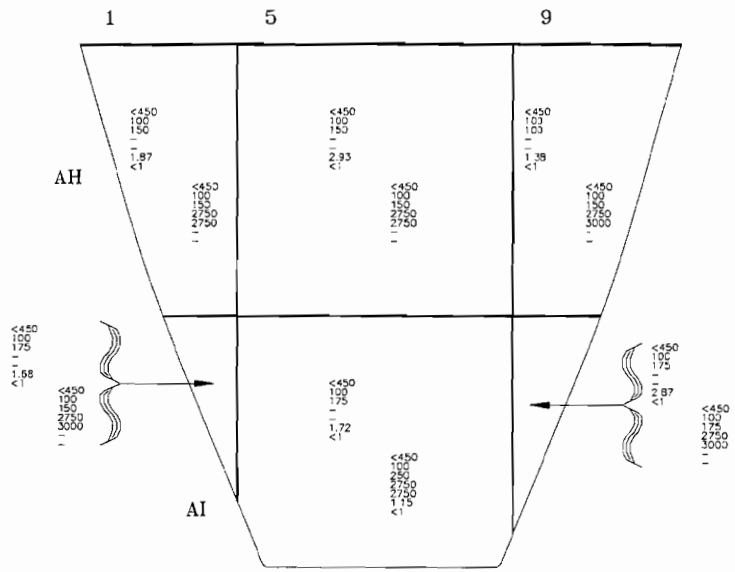


Sample Data

< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (FLOOR)

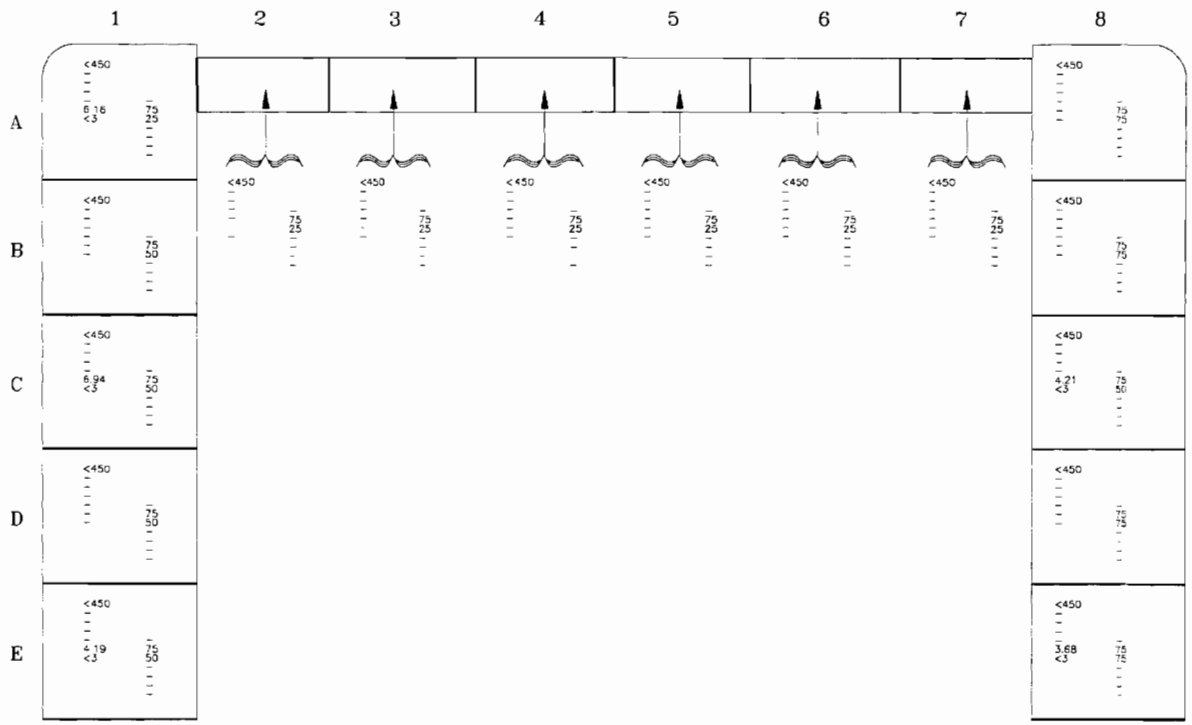


Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)



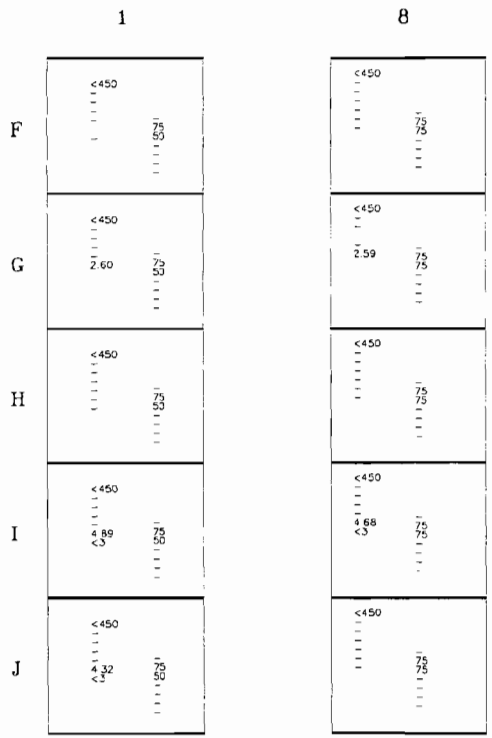
Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

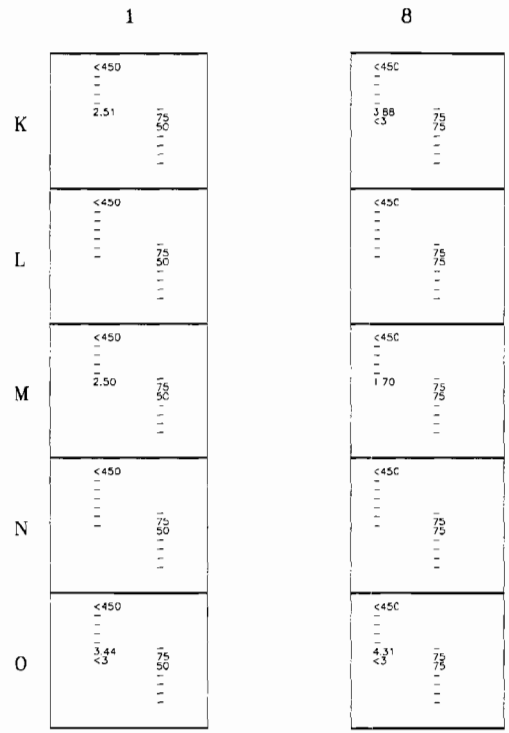
Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)



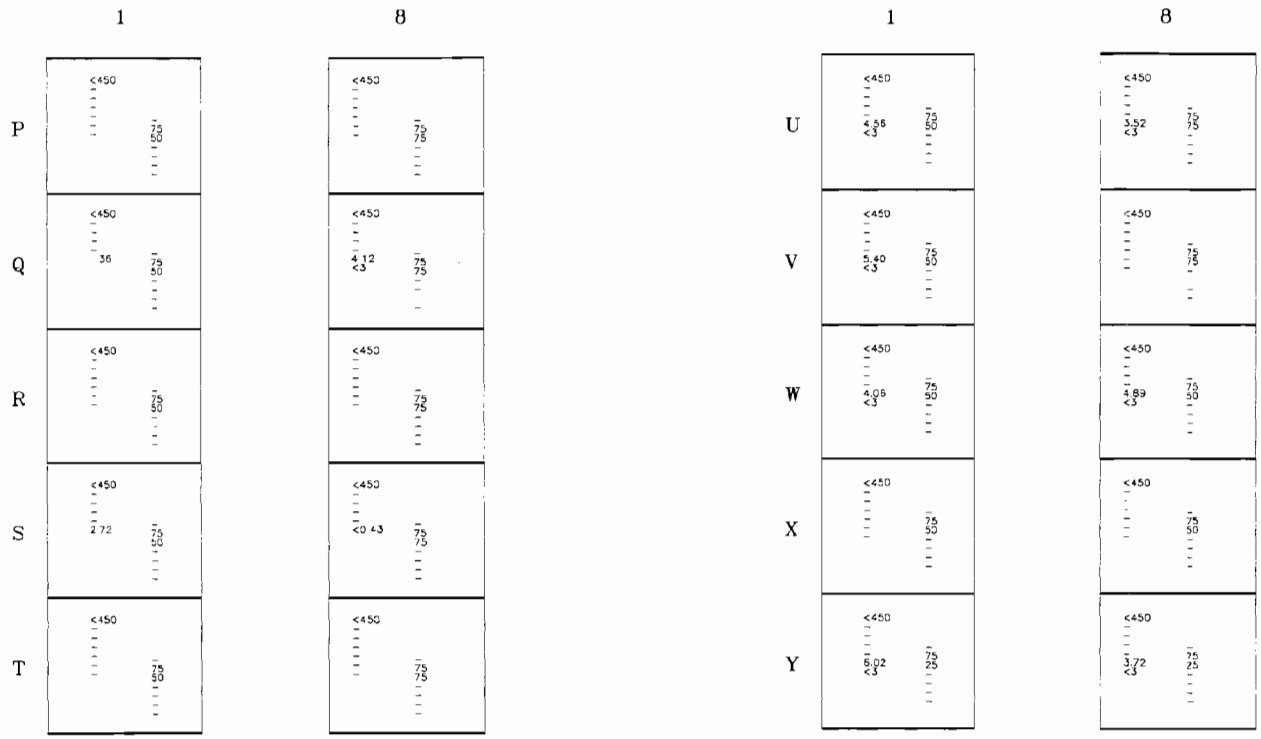


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μ_dCv/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)

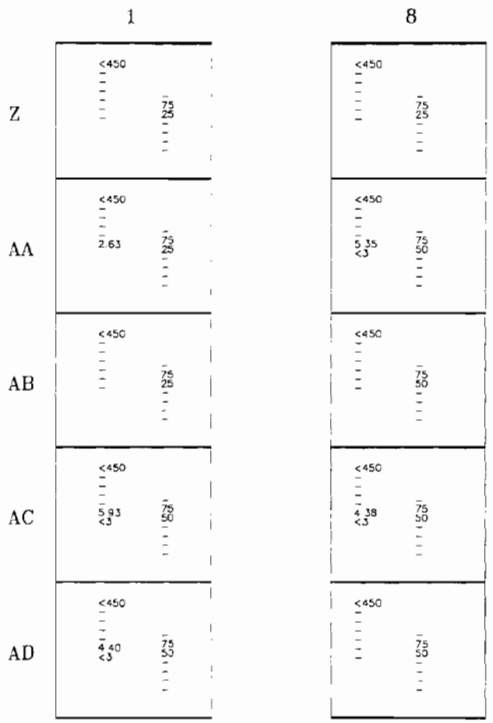


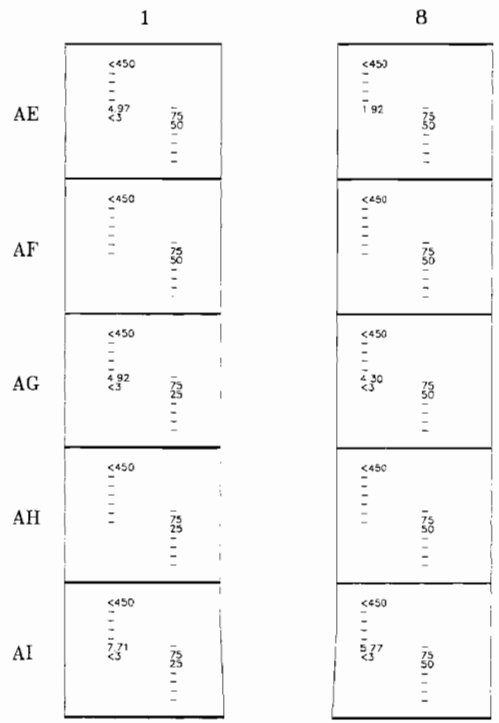
Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
< 450 – IM-247/PD Results [µCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)



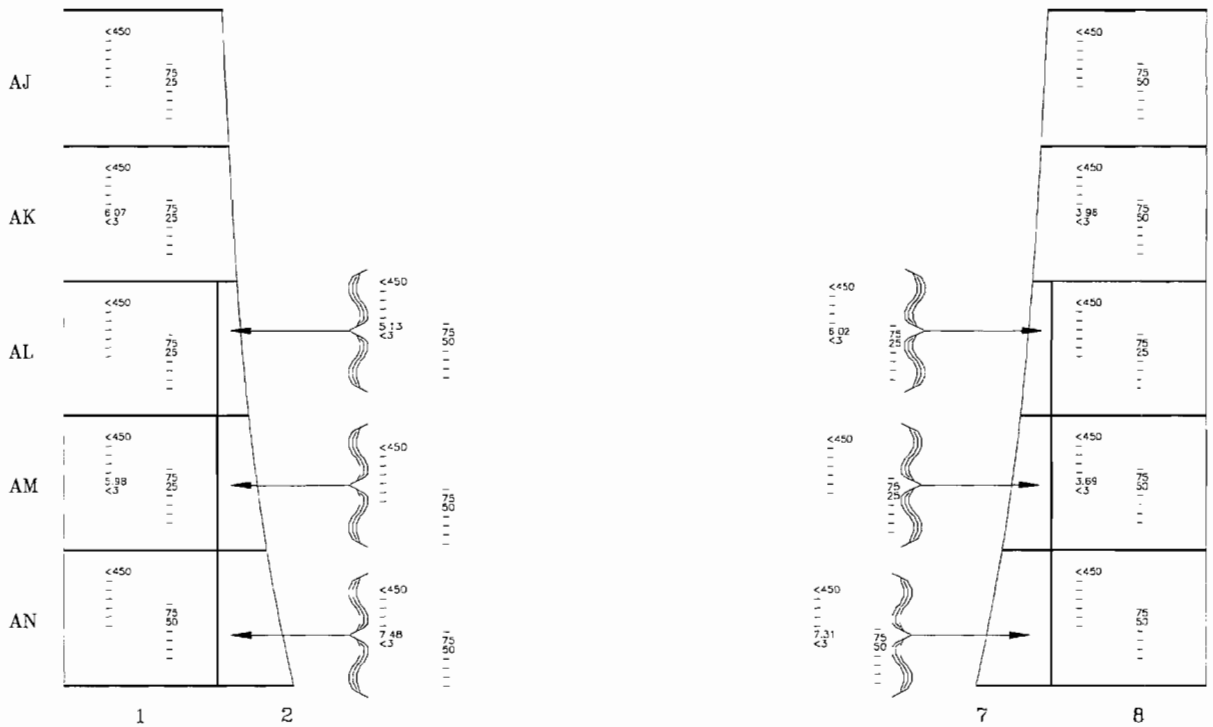


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)

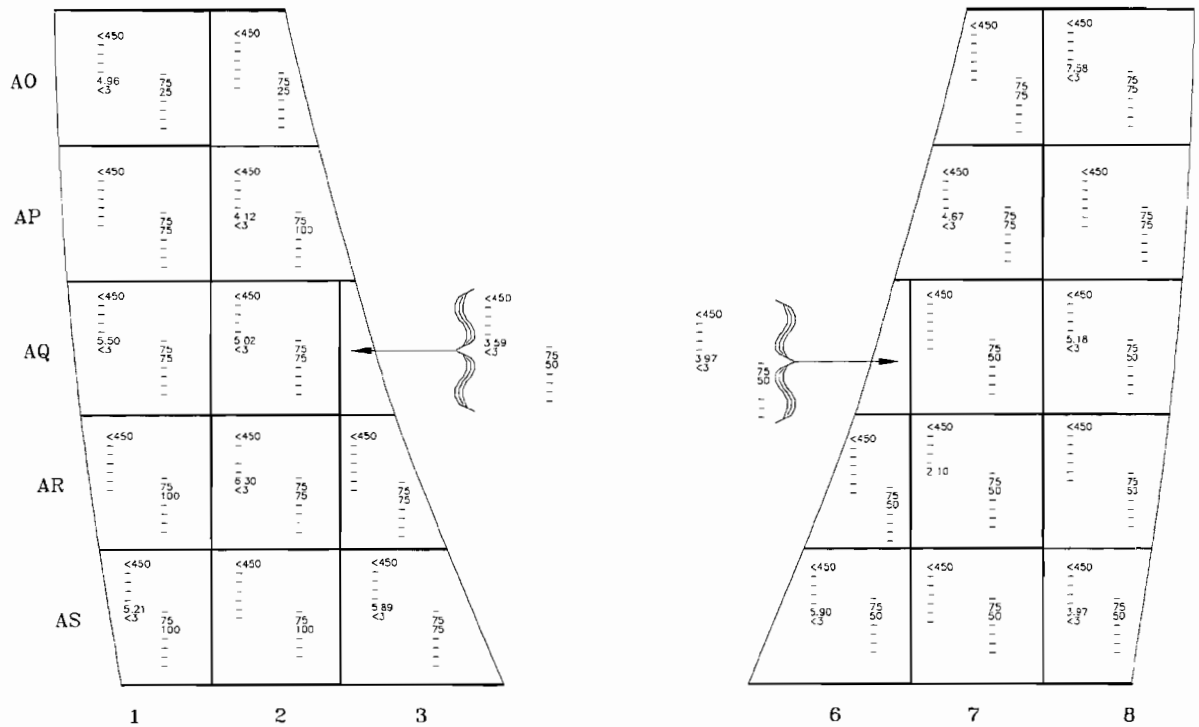


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)

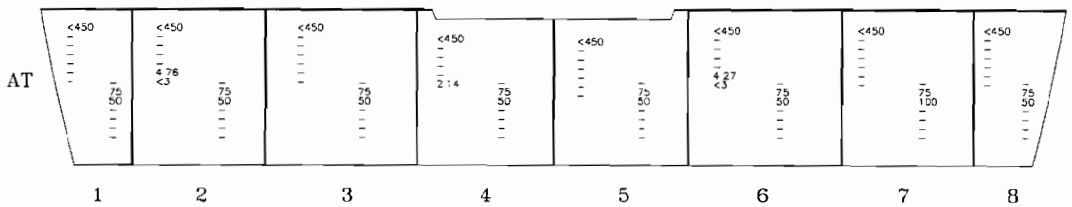


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (ADJACENT)

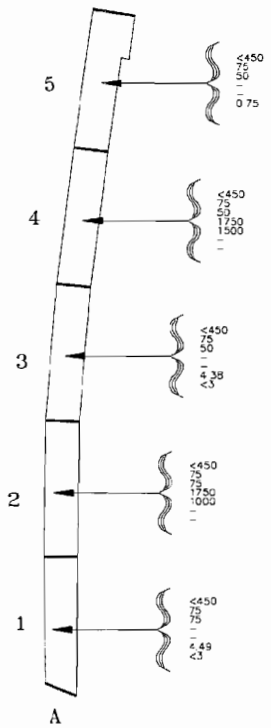


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [µCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
*.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (STAIRS)

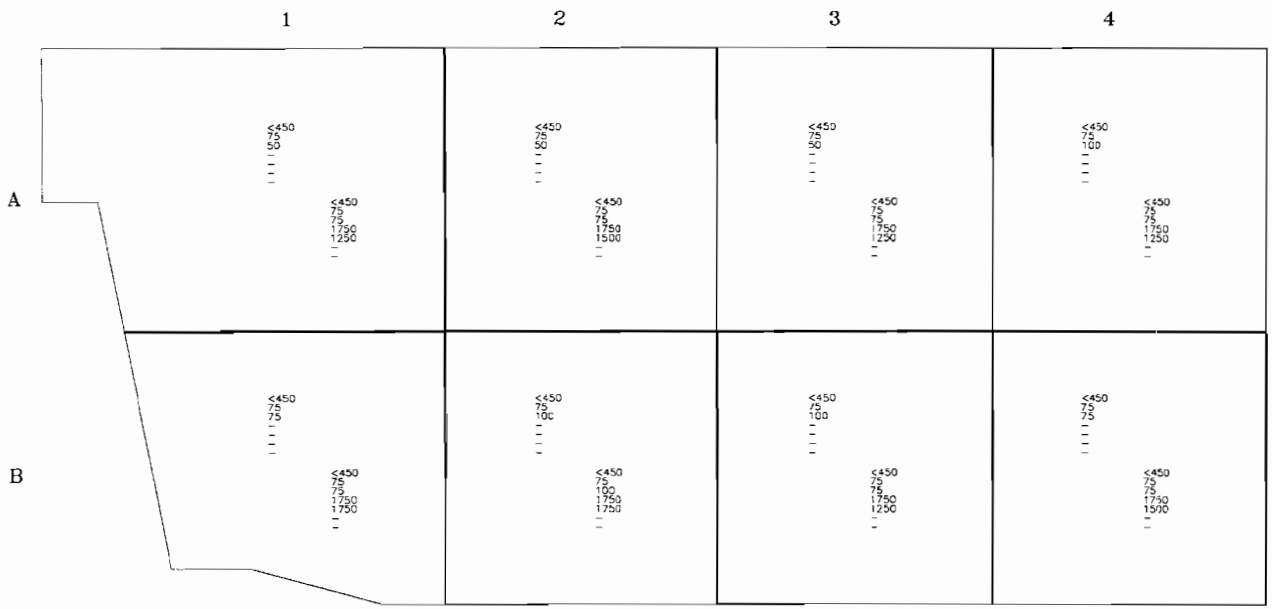


Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 3)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.32 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 3)

	5	6	7	8	9
A	<450 75 50 – – – <450 75 75 1750 1250 – –	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 50 – – – <450 75 50 1750 1500 – –	<450 75 50 – – – <450 75 75 1750 1500 – –	<450 75 100 – – – <450 75 100 1750 1550 – –
B	<450 75 75 – – – <450 75 75 1750 1750 – –	<450 75 75 – – – <450 75 75 1750 1750 – –	<450 75 75 – – – <450 75 75 1750 1250 – –	<450 75 75 – – – <450 75 75 1750 1250 – –	<450 75 75 – – – <450 75 100 1750 2000 – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 3)

	10	11	12	13	14
A	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 75 1750 1550 – –	<450 75 75 – – – <450 75 100 1750 1500 – –	<450 75 75 – – – <450 75 100 1750 1500 – –	<450 75 100 – – – <450 75 100 1750 1500 – –
B	<450 75 100 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 50 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 100 1750 1750 – –	<450 75 75 – – – <450 75 75 1750 1750 – –

Sample Data

<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 3)

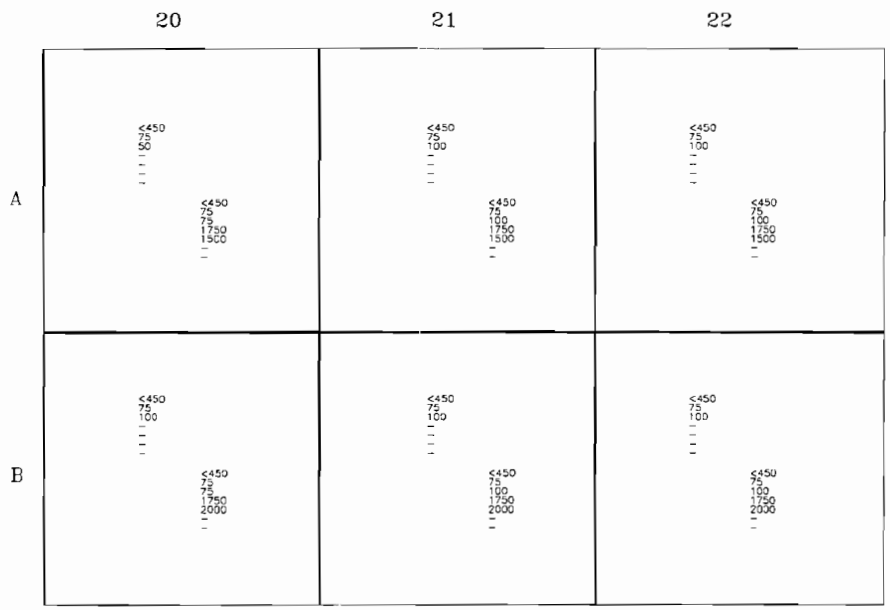
	15	16	17	18	19
A	<450 75 50 – – – <450 75 100 1750 1750 – –	<450 75 100 – – – <450 75 100 1750 1500 – –	<450 75 50 – – – <450 75 75 1750 1500 – –	<450 75 50 – – – <450 75 75 1750 1500 – –	<450 75 100 – – – <450 75 75 1750 1250 – –
B	<450 75 100 – – – <450 75 75 1750 1750 – –	<450 75 100 – – – <450 75 75 1750 1500 – –	<450 75 100 – – – <450 75 75 1750 1750 – –	<450 75 100 – – – <450 75 125 1750 1750 – –	<450 75 100 – – – <450 75 75 1750 1500 – –

Sample Data

< 450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.32 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 3)

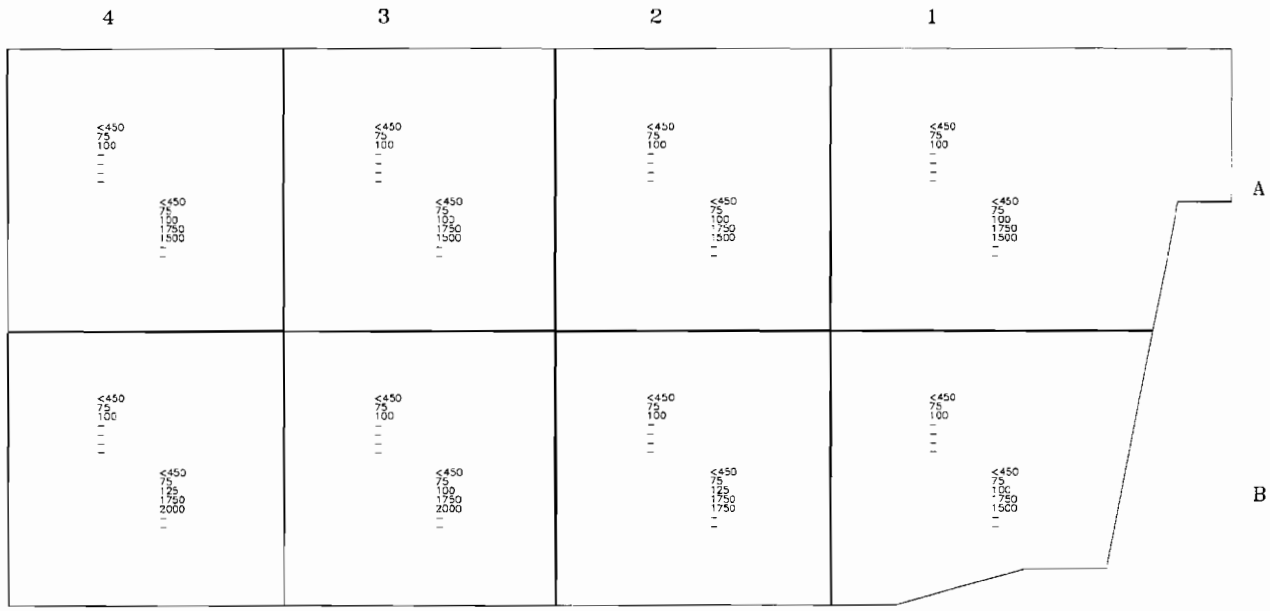


Sample Data

<450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 1)



Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 1)

	9	8	7	6	5
A	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 1500 - -
B	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 100 1750 1750 - -	<450 75 100< - - - <450 75 100 1750 2000 - -	<450 75 100< - - - <450 75 125 1750 2000 - -

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 1)

	14	13	12	11	10
A	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 75 1750 2000 – –	<450 75 75 – – – <450 75 75 1750 2000 – –	<450 75 100 – – – <450 75 100 1750 2000 – –	<450 75 100 – – – <450 75 100 1750 2000 – –
B	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 100 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –

Sample Data

< 450 – IM-247/PD Results [μCi/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 1)

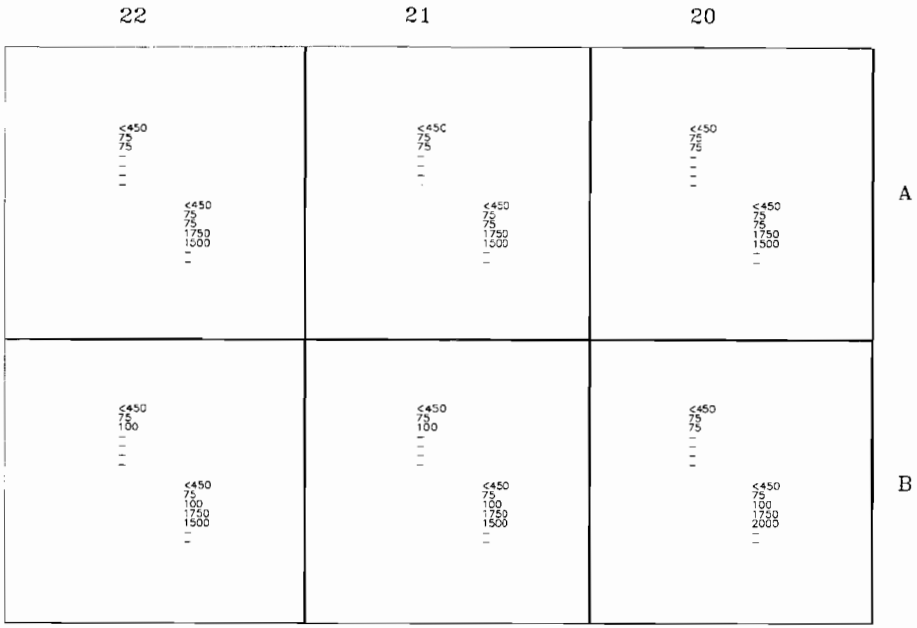
	19	18	17	16	15
A	<450 75 75 – – – <450 75 75 1750 2000 – –	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 75 1750 1500 – –	<450 75 75 – – – <450 75 75 1750 1500 – –
B	<450 75 100 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 75 – – – <450 75 100 1750 2000 – –	<450 75 100 – – – <450 75 100 1750 2000 – –

Sample Data

<450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 1)

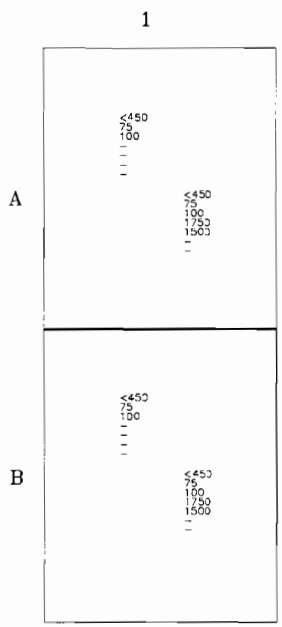


Sample Data

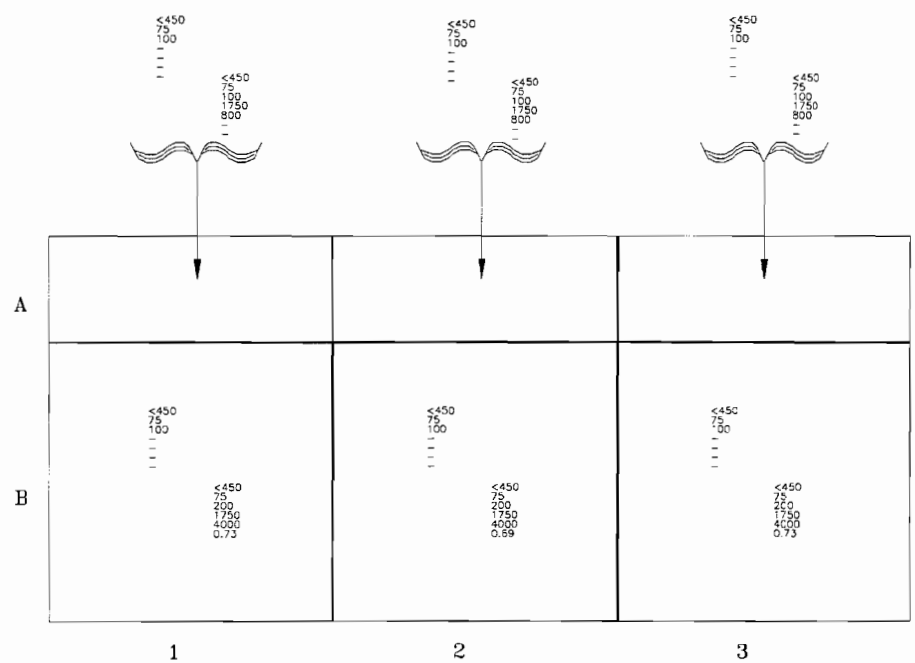
< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

e. Localized Grid Maps (WALL 2 & 4)



W4



W2

Note:
All solid samples taken consist of paint and have a limit of 3 pCi/g.

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

6. ARDM 3

f. Prior Photographs

Viewing starboard side of ARDM.

6. ARDM 3

f. Prior Photographs

ARDM floor and walls, facing aft.

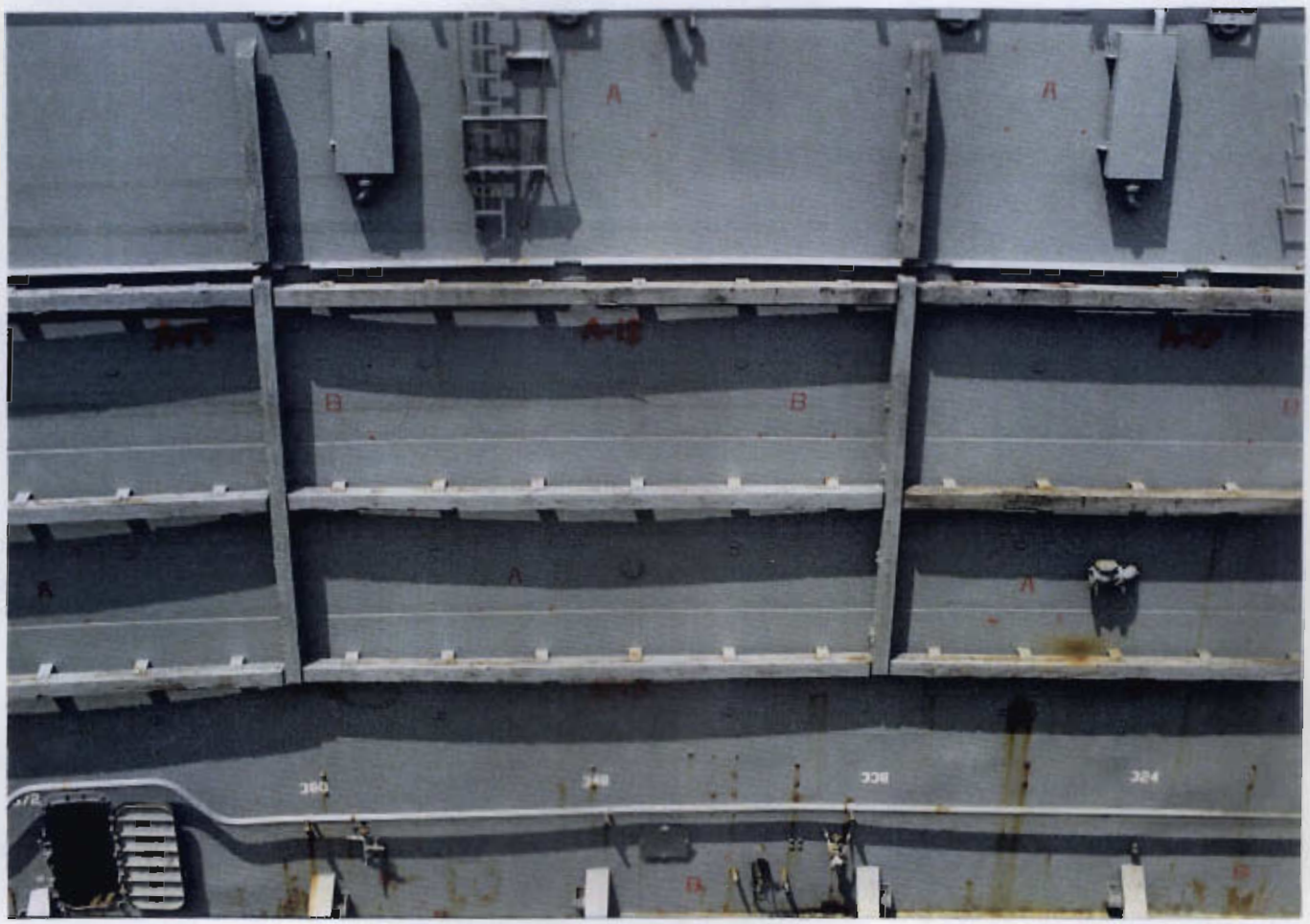
6. ARDM 3

g. During Photographs

Starboard side adjacent area, viewing aft.

6. ARDM 3

g. During Photographs



Starboard wall, viewing grid No. A-18.

6. ARDM 3

h. After Photograph

Midway of ARDM floor, facing forward.

6. ARDM 3

h. After Photograph

Port side adjacent area, viewing aft.

7. ARDM 3, Interior Spaces

a. Introduction:

Auxiliary Repair Dry Dock (Medium) 3 was used for short availabilities on submarines. A portion of the wingwalls were used by ship's force Engineering Laboratory Technicians as an off-hull Nucleonics Laboratory.

(1) **Description:**

Space 2-11-2-Q, located in the wingwall, housed the off-hull Nucleonics Lab. The lab was approximately 10' by 12' with three shelves along the interior walls and included a vestibule and ladder. This area is constructed of welded steel plates painted to inhibit corrosion, with tile on the deck of the Nucleonics Lab.

(2) **Brief History:**

(a) **Use:** Space 2-11-2-Q was occasionally used as a temporary Nucleonics Laboratory for Navy Engineering Laboratory Technicians while the shipboard laboratory space was unavailable.

(b) **Radiological History:** The Nucleonics Laboratory, in Space 2-11-2-Q, was established as a radioactive material storage area while in use. Loose surface contamination levels were maintained less than 450 μμCi/100cm^2. No radioactive material was ever worked on, stored, or transferred through any of the other interior areas of the dry dock.

(3) **Survey Requirements:**

(a) Group 3 survey in the Nucleonics Laboratory.

b. Discussion:

Auxiliary Repair Dry Dock (Medium) 3 was used for limited availabilities as a docking facility. Wingwall compartment 2-11-2-Q was utilized by ship's force as an off-hull Nucleonics Laboratory in which Primary Coolant Samples were analyzed and equipment stored. Loose surface contamination levels were maintained less than 450 μμCi/100cm^2 during sampling evolutions.

The Nucleonics Lab was divided into eight floor grids approximately 5' by 5' where physically possible, sixteen wall grids 6' high by 5' wide where configuration allowed, and three shelf grids. Each grid had its own unique designator.

One hundred percent of all grids were surveyed with the IM-247/PD and IM-253/PD (HV-1 PHA). A minimum of twenty-five percent of all grids were

7. ARDM 3, Interior Spaces

surveyed with the IM-253/PD (HV-2 GROSS). Additionally, solid material samples were taken from each grid, with the exception of grids LL-W1-A1, LL-W1-A2, Top Shelf A1, Bottom Shelf A1, Back Shelf A1, which were not sampled because they were unpainted metal. All solid material samples, except those taken from the lower level floor, consisted of paint and had a limit of 3 pCi/g. Solid material samples from the lower level floor had a limit of 1 pci/g.

A total of twenty-two solid material samples were taken. Each solid sample was removed from the grid location indicating the area of highest potential. No typical naturally occurring radionuclides were identified during analysis of solid material samples.

The ARDM-3 Nucleonics Lab deck and bulkheads are constructed of metal plate. The IM-247/PD and IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds of 40, 75, and 750 counts per minute were based on background radiation levels obtained from Barge H418.

Removal of light fixtures, electrical cabling and services, fixed cabinets, and other fixed equipment was not required.

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than 450 μμCi/20cm^2.

Surveys performed with the IM-253/PD (HV-1 PHA) did not detect areas greater than or equal to twice background.

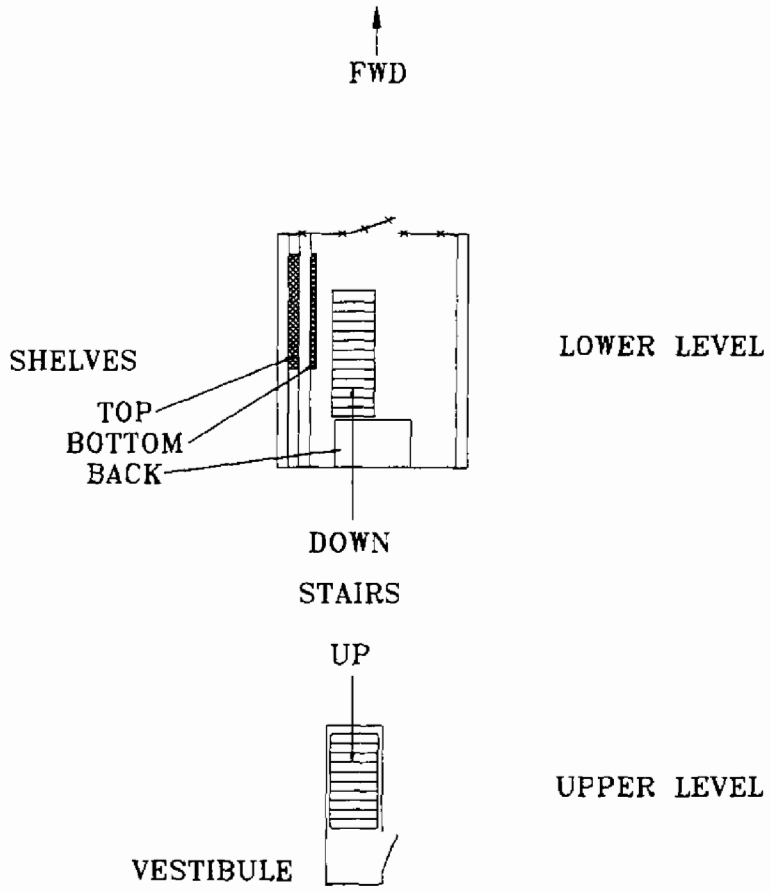
Surveys performed with the IM-253/PD (HV-2 GROSS) did not detect areas greater than or equal to twice background.

Analysis performed on solid material samples with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from less than a minimum detectable activity of 0.43 pCi/g to a high of 1.53 pCi/g.

Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated that all solid material samples taken from the lower level floor were less than 1 pCi/g. Analysis performed on all other solid material samples, which consisted of paint, indicated less than 3 pCi/g.

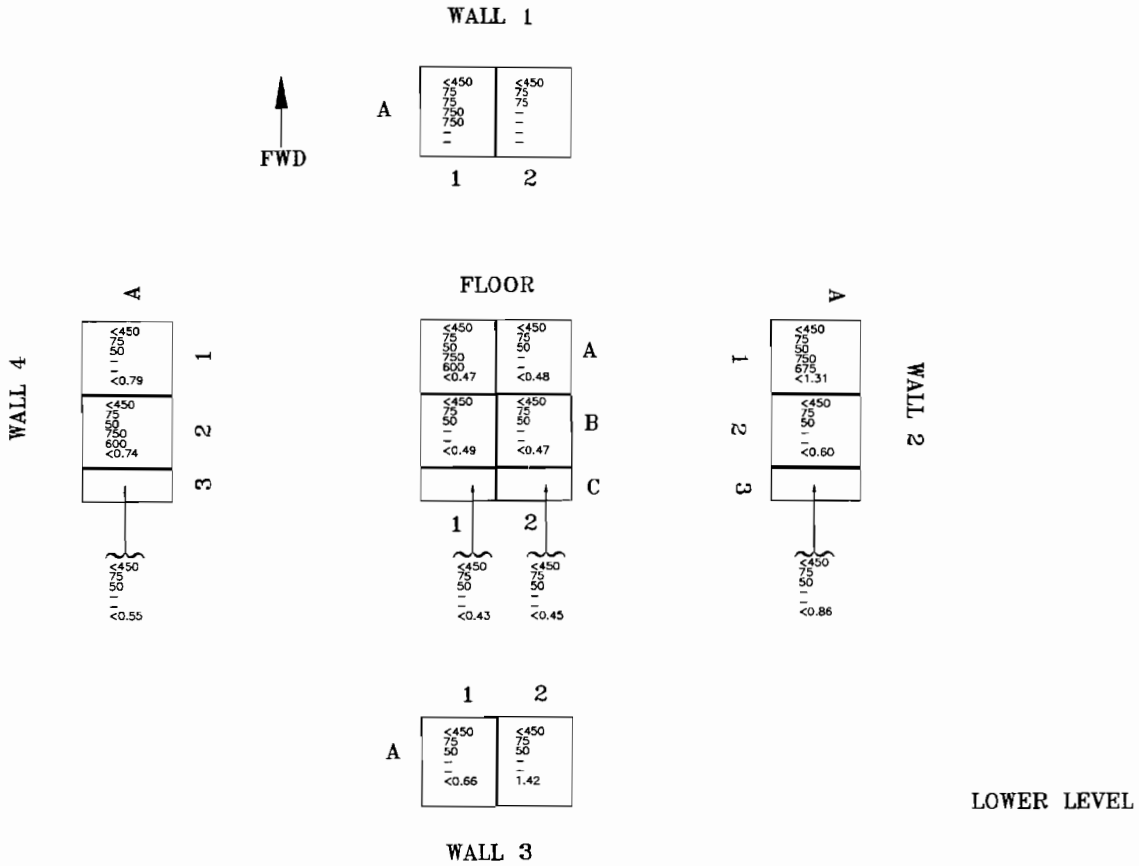
7. ARDM 3, Interior Spaces

e. Site Map



7. ARDM 3, Interior Spaces

e. Localized Grid Maps



Note
Samples taken from all grids, except the lower level floor, consist of paint and have a limit of 3 pCi/g.

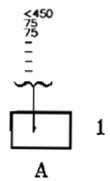
Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

7. ARDM 3, Interior Spaces

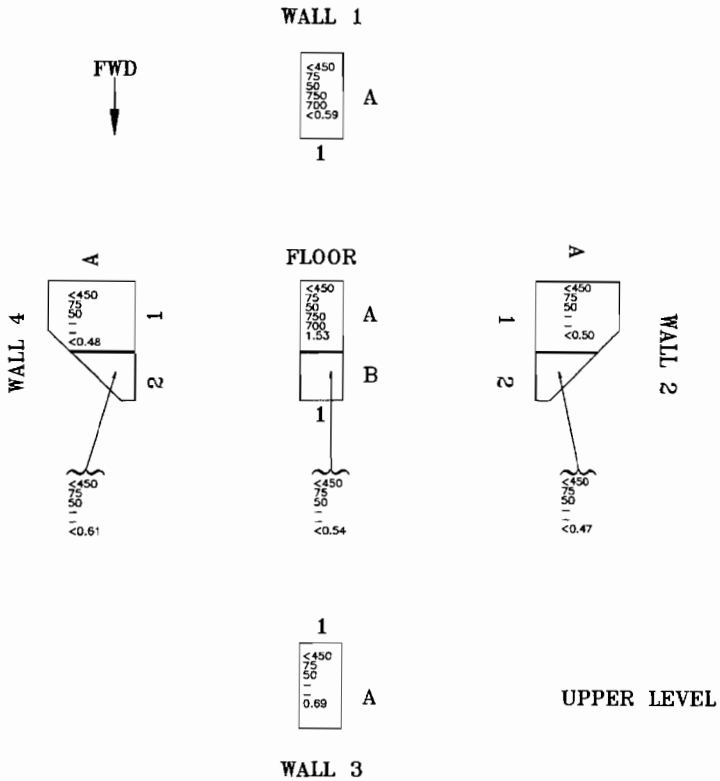
e. Localized Grid Maps

TOP SHELF

BOTTOM SHELF



BACK SHELF

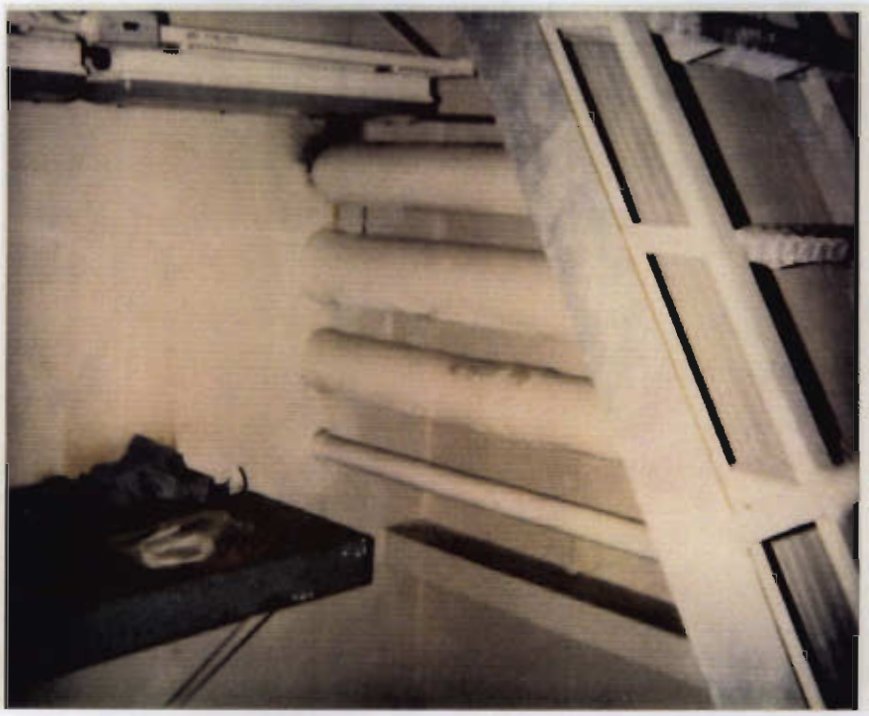


Note
Samples taken from all grids, except the lower level floor, consist of paint and have a limit of 3 pCi/g.

Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
<.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

7. ARDM 3, Interior Spaces

f. Prior Photograph



ARDM 3 Nucleonics Lab interior.

7. ARDM 3, Interior Spaces

g. After Photograph

Nucleonics Lab back shelf.

7. ARDM 3, Interior Spaces

g. After Photograph

Nucleonics Lab, Interior.

8. Dry Dock Keel Blocks

a. Introduction:

A total of 146 keel blocks were surveyed in accordance with CNSY NNPP Survey Plan.

(1) **Description:**

There are six basic styles of keel blocks constructed of concrete and wood: Charleston Keel Blocks (4' by 4' by 3.5'), Reuben Keel Blocks (8' by 3.5' by 4'), ARDM Keel Blocks (5' by 4.5' by 3'), Half Keel Blocks (4' by 3.5' by 2'), Boston 1 (4' by 3.5' by 5') and Boston 2 (4' by 3.5' by 4').

(2) Brief History:

(a) **Use:** Keel Blocks were used primarily to sustain the weight of a vessel while the vessel was in dry dock for repair/overhaul.

(b) **Radiological History:** Keel blocks used to support vessels in dry docks were located within temporarily established radiologically controlled areas including radiation areas, high radiation areas, and radioactive material storage areas. Loose surface contamination levels on keel blocks were maintained less than 450μμCi/100cm^2.

(3) **Survey Requirements:**

(a) Dry Dock Survey.

b. Discussion:

As required by CNSY NNPP Survey Plan, Section VII, Dry Dock Survey Plan, paragraph g, 10% of all keel blocks had all accessible areas surveyed. Fifty percent of those keel blocks surveyed had solid material samples taken.

One hundred and forty-six keel blocks were surveyed with the IM-247/PD. Additionally, solid material samples were taken from 73 blocks. Each solid material sample was removed from the area indicating the highest potential. The following typical naturally occurring radionuclides were identified during isotopic analysis of solid material samples: lead 212, lead 214, thallium 208.

The IM-247/PD background of 50 counts per minute was based on background radiation levels obtained from Building 89 for concrete and Building M1116 for wood.

8. Dry Dock Keel Blocks

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than 450μμCi/20cm^2.

Analysis performed on solid material samples from all keel blocks with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from a low of 0.07 pCi/g to a high of 6.11 pCi/g.

Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated that all solid material samples were less than 1 pCi/g.

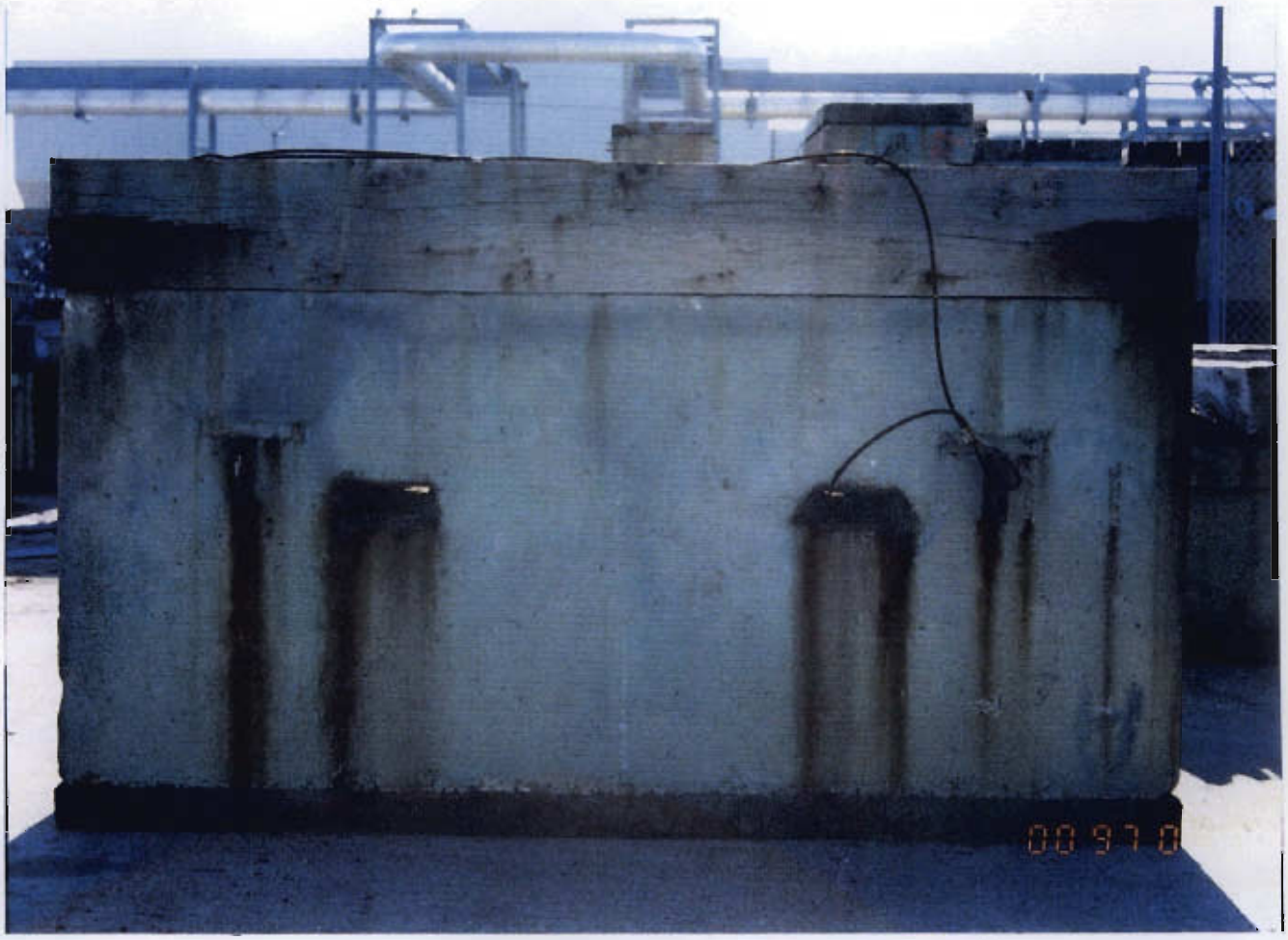
8. Dry Dock Keel Blocks

d. Photographs

Charleston Keel Block

8. Dry Dock Keel Blocks

d. Photographs



Reuben Keel Block

8. Dry Dock Keel Blocks

d. Photographs

ARDM Keel Block

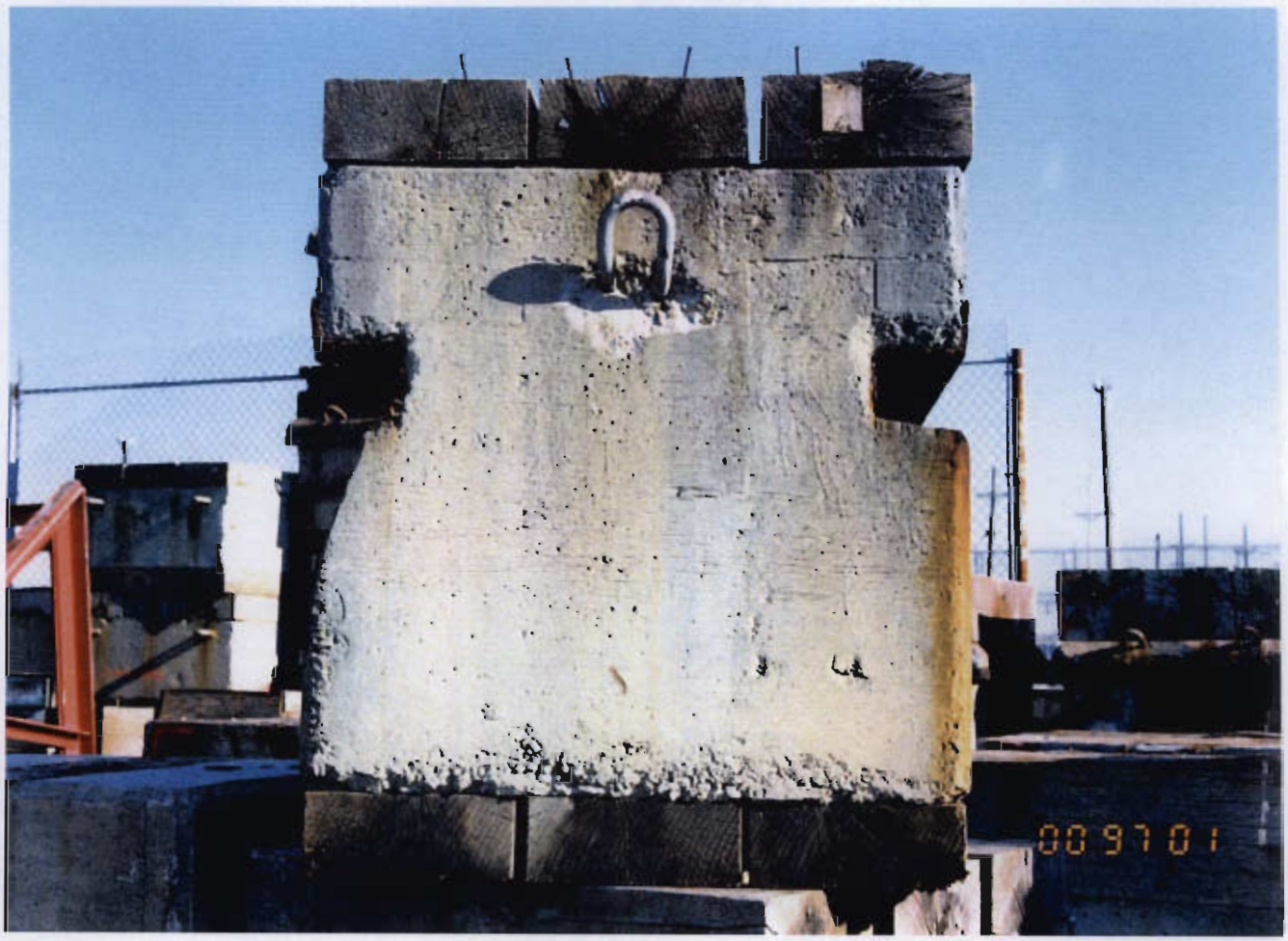
8. Dry Dock Keel Blocks

d. Photographs

Half Keel Block

8. Dry Dock Keel Blocks

d. Photographs



Boston 1 and 2