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NAVAL NUCLEAR PROPULSION PROGRAM (NNPP) RADIOLOGICAL FINAL REPORT FOR DECOMMISSIONING VOLUME II SECTION F SUBSECTION 1 THRU SUBSECTION 3 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 1
THRU
SUBSECTION 3

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

April 1, 1996

NAVAL NUCLEAR PROPULSION PROGRAM (NNPP)

RADIOLOGICAL FINAL REPORT

FOR THE DECOMMISSIONING OF

CHARLESTON NAVAL SHIPYARD

(VOLUME II)

SECTION F

SUBSECTION 1
THRU
SUBSECTION 3

Prepared by
Radiological Engineering Division
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Charleston, South Carolina
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1. Dry Dock 1

a. Introduction:

Dry Dock 1 is located in grid C-6 of the Charleston Naval Shipyard map (Figure 10) and was completed in 1907. Dry Dock 1 is also identified as structure 301.

(1) **Description:**

Dry Dock 1 is rectangular, 641 feet long by 102 feet wide by 40 feet deep and is facing east into the Cooper River. Dry Dock 1 is of masonry granite construction, and contains water collection troughs to control run off. The troughs drain into pumping system sumps that discharge to the Cooper River. The troughs and sumps are covered with metal grates. Dry Dock 1 has a metal caisson, however it was recently sandblasted and repainted and not used during the drydocking of a nuclear vessel. Therefore, no surveys and samples are required. The adjacent areas include an approximately 40' perimeter area around Dry Dock 1 and a radioactive material (RAM) storage area at the west end of the dry dock. These adjacent areas and RAM storage areas have a ground cover of asphalt, granite, and concrete. Two concrete slabs located within the RAM storage area are included with the S6G Refueling Foundation surveys. Along the north and south dry dock walls are 16 service galleries and three sets of stairways. Also the service tunnel #1 door into the dry dock is located on the south wall.

(2) **Brief History:**

(a) **Use:** Dry Dock 1 was completed in 1907 as the first dry dock at Charleston Naval Shipyard. This was the first permanent dry dock to service the Atlantic Fleet south of Cape Hatteras. Dry Dock 1 was used for the overhaul and refueling of nuclear submarines.

(b) **Radiological History:** Radiation areas, high radiation areas, and radioactive material storage areas were established in the dry dock and adjacent areas. Designated areas of Dry Dock 1 were established as radiologically controlled areas during the dry docking of nuclear powered submarines. Radiological work performed included resin discharges, reactor vessel fill and pump down, radioactive liquid discharges to tanks through connected piping, refuelings, and decontamination of ship hulls.

Loose surface contamination levels greater than 10,000 $\mu\mu Ci/100cm^2$ have been found on ship hulls after entry into this dry dock. Spills of radioactive liquid resulting in loose surface contamination levels of several thousand $\mu\mu Ci/100cm^2$ have occurred. All spills areas were decontaminated and released from radiological controls. Contamination levels were otherwise maintained less than 450 $\mu\mu Ci/100cm^2$.

1. Dry Dock 1

(3) **Survey Requirements:**

Dry Dock survey.

b. Discussion:

Dry Dock 1 is categorized under dry dock surveys. Areas of the dry dock floor and walls 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. Storage areas for portable effluent tanks or other radioactive material, spill areas, or areas underneath hull connections used for transfer of radioactive liquid were divided into approximately 5' by 5' grid sections. The water collection troughs were divided into approximately 5' by 5' and 20' by 20' grid sections. Each grid and subsection was identified with a unique designation.

Each 3' by 3' subsection was surveyed using the IM-247/PD and the IM-253/PD (HV1/PHA). A minimum of 50 percent of the 3' by 3' subsections was 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 percent of the 5' by 5' grids were surveyed using the IM-253/PD (HV-2 GROSS).

Solid material samples were taken from each 5' by 5' grid and each 20' by 20' floor grid. Paint samples were taken from the service galleries.

Portions of the adjacent areas 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 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). Solid material samples were taken from a minimum of 50 percent of the 10' by 10' grids. In addition solid material samples were taken from 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 with the IM-253/PD.

Individual backgrounds were used for Dry Dock 1 floor, walls, water collection troughs, adjacent areas, RAM storage areas, and metal service galleries. These structures consisted of metal, asphalt, granite, and concrete. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the concrete were 40, 300, and 12500 counts per minute respectively. These areas were based upon background radiation levels obtained from Building M 1123. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2

1. Dry Dock 1

GROSS) backgrounds used for the granite were 180, 1750, and 37500 counts per minute respectively. These areas were based upon background radiation levels obtained from Pier E. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the asphalt were 60, 425, and 10000 counts per minute respectively. These areas were based upon background radiation levels obtained from Building M 1275. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the metal structures were 40, 200, and 7500 counts per minute respectively. These areas were based upon background radiation levels obtained from Building 1897.

A total of 2918 solid material samples was taken. Each solid sample was removed from the grid location indicating the area of highest potential. Sediment samples were taken from the dry dock sump but were not displayed on the grid maps. The following naturally occurring radionuclides were typical isotopes identified during analysis of solid material samples: lead 212, lead 214, thallium 208, bismuth 214, and potassium 40.

c. Summary:

Surveys performed with the IM-247/PD detected two areas greater than 450 $\mu\mu Ci/20cm^2$.

Surveys performed with the IM-253/PD (HV-1 PHA) detected 135 areas greater than or equal to twice background.

Surveys performed with the IM-253/PD (HV-2 GROSS) detected 24 areas greater than or equal to twice background.

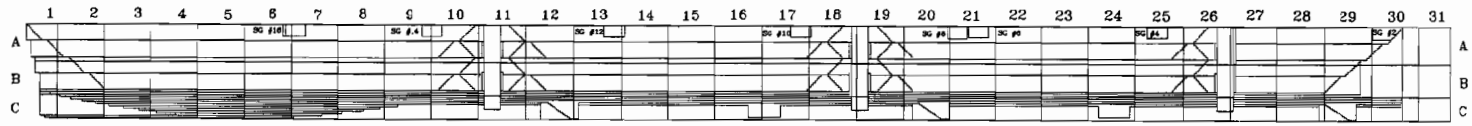
Analysis performed on solid material samples with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from a low of less than 0.22 pCi/g to a high of 22.14 pCi/g.

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

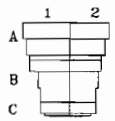
Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated solid material samples were less than 1 pCi/g and paint samples were less than 3 pCi/g. However, four samples taken from the RAM storage area on the west end of the dry dock contained traces of cobalt 60 greater than the minimum detectable activity. The extent of the trace cobalt 60 was identified by taking additional solid material samples in the surrounding vicinity. Remediation consisted of excavation of concrete from the identified area to a depth of 1/2" using scabbling equipment. Following remediation, additional solid material samples were taken in the area and all were less than 1 pCi/g specific cobalt 60. No traces of cobalt 60 were identified.

1. Dry Dock 1

d. Overall Grid Map (Walls and Service Galleries)



NORTH WALL

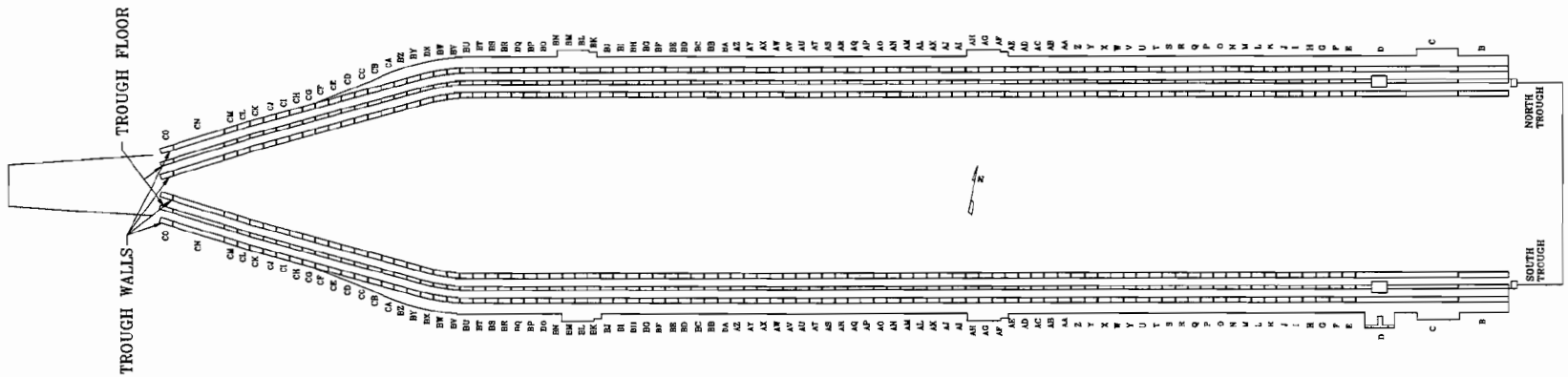


WEST WALL

SOUTH WALL

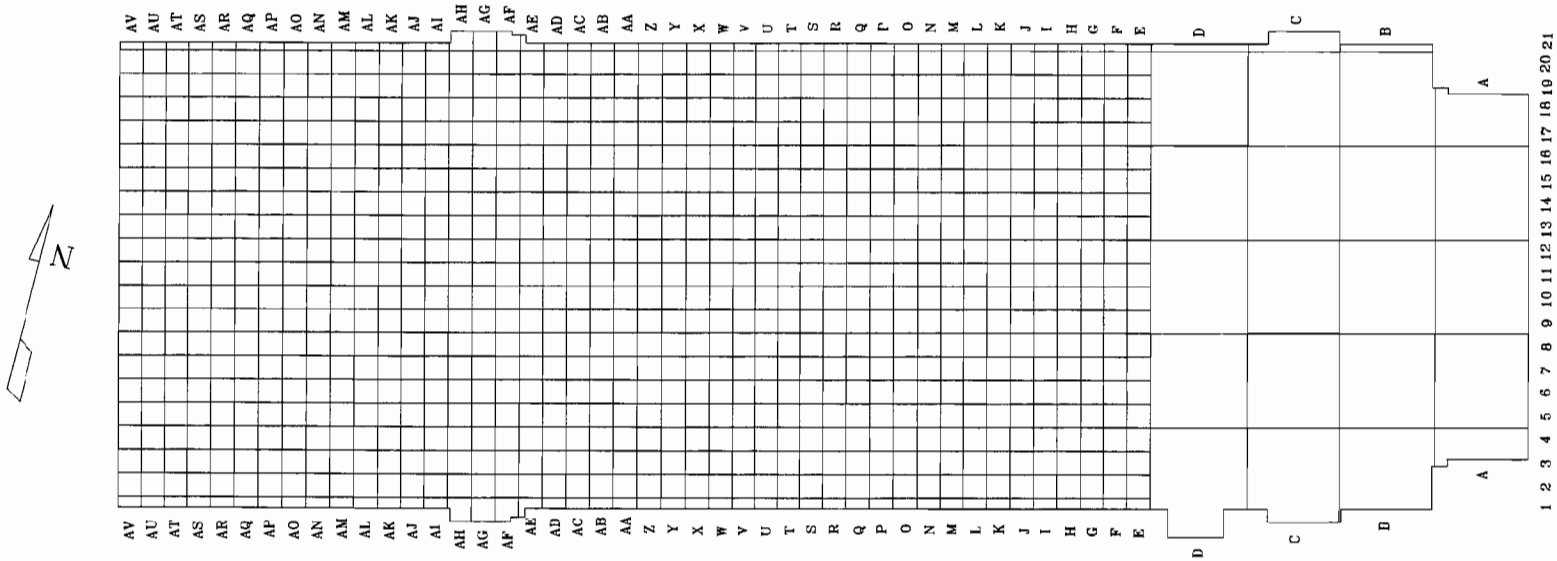
1. Dry Dock 1

d. Overall Grid Map (Water Collection Troughs)



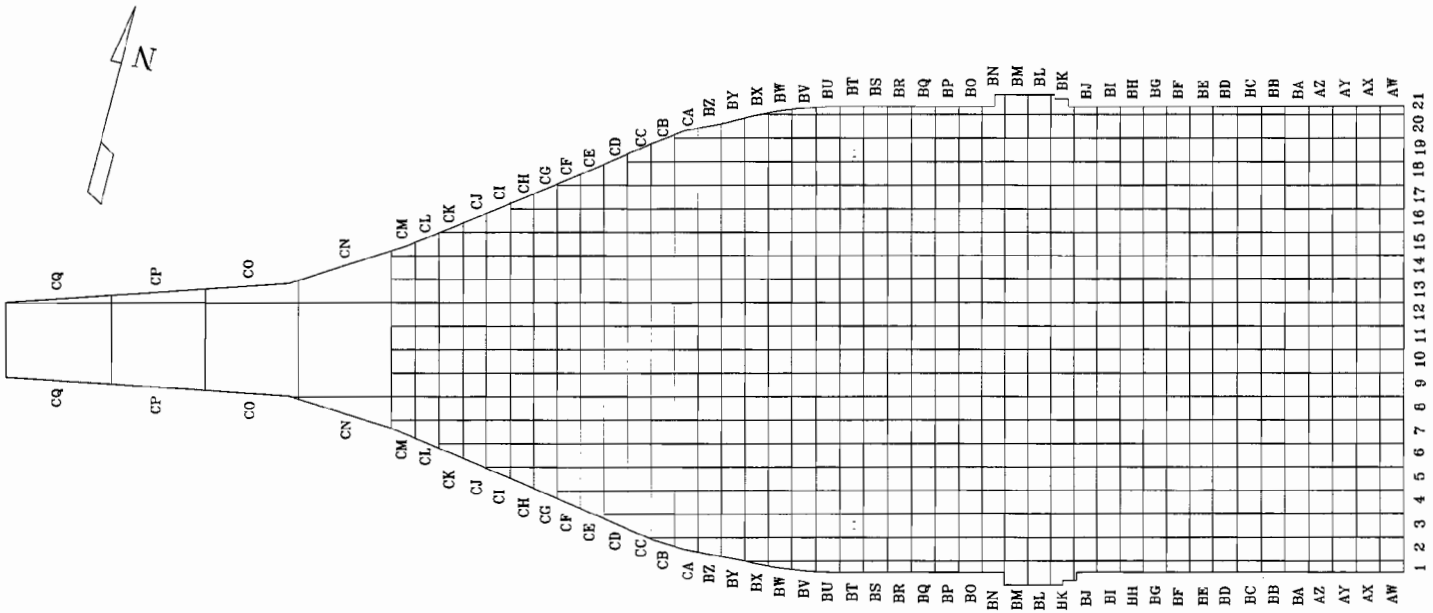
1. Dry Dock 1

d. Overall Grid Map (Floor)



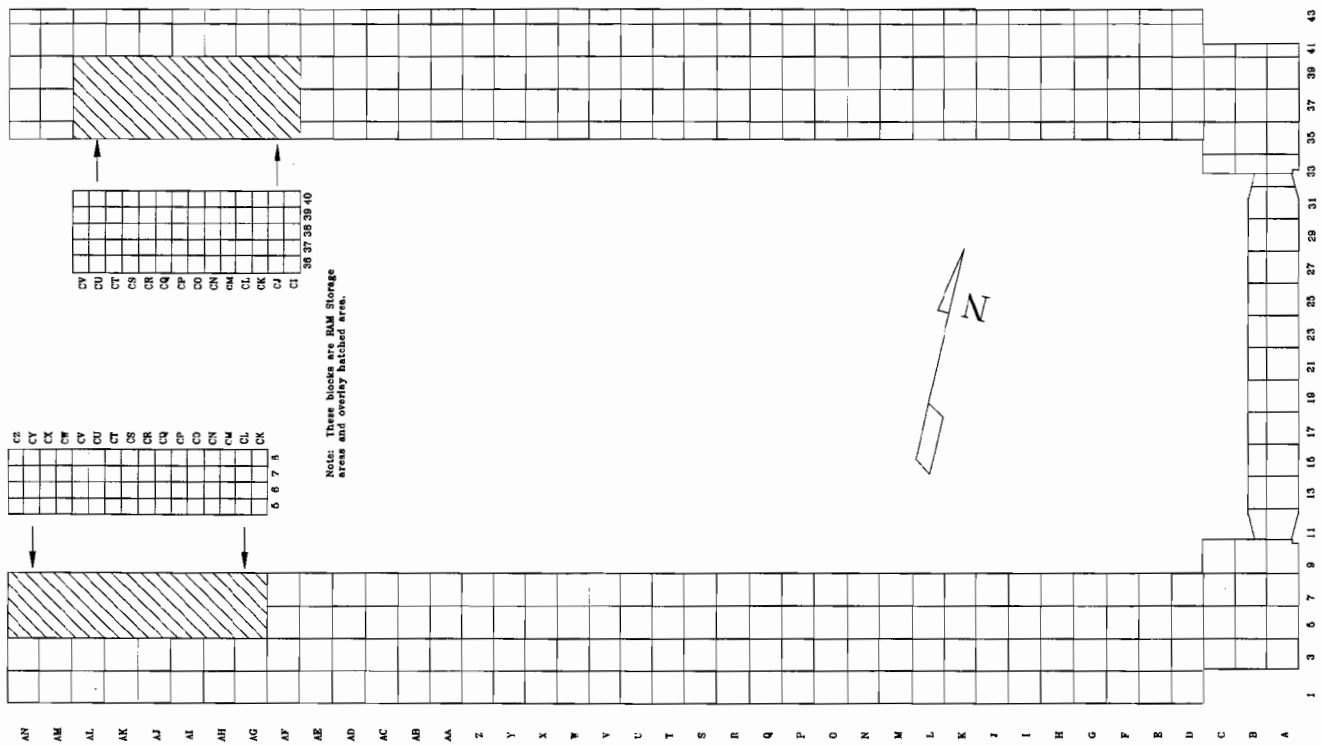
1. Dry Dock 1

d. Overall Grid Map (Floor)



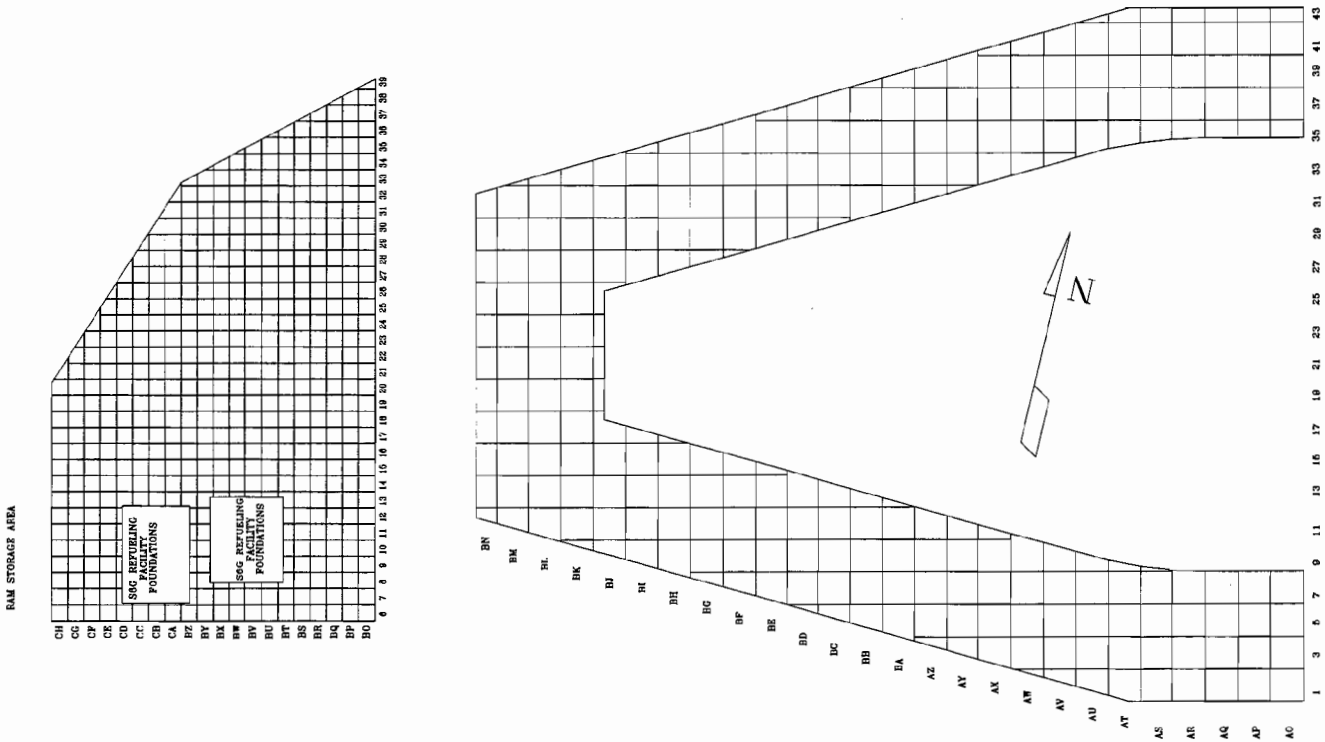
1. Dry Dock 1

d. Overall Grid Map (Adjacent Area)



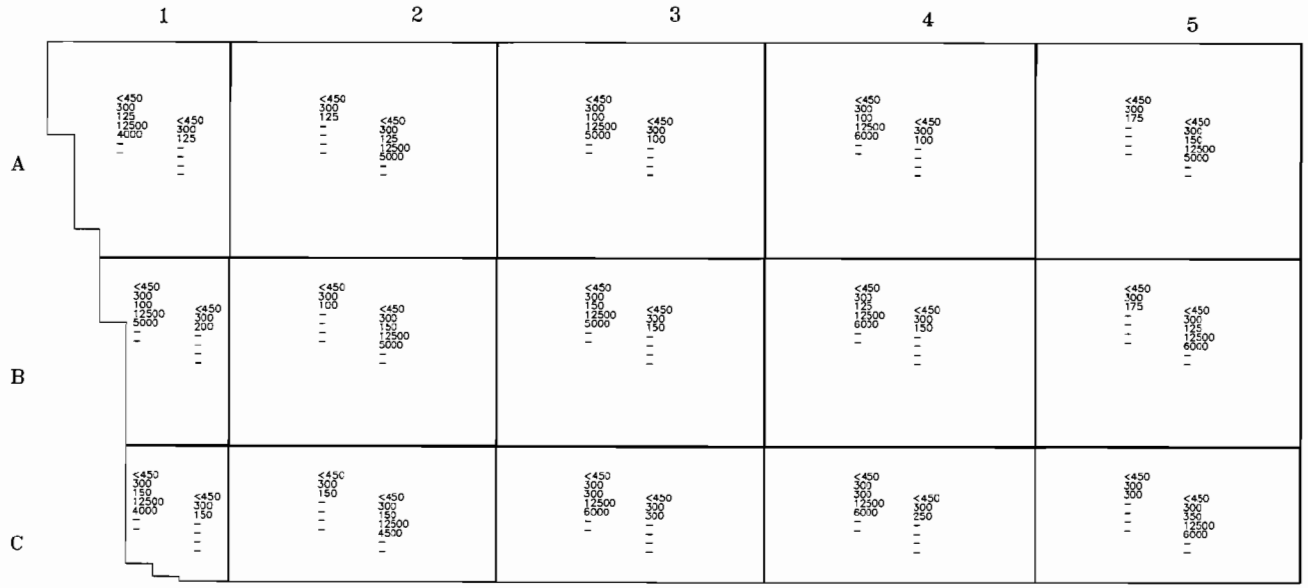
1. Dry Dock 1

d. Overall Grid Map (Adjacent Area)



1. Dry Dock 1

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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

	6	7	8	9	10
A	<450 1750 1250 37500 30000 – – <450 1750 1500 – – – –	<450 1750 1500 37500 43000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 1500 37500 40000 – –	<450 1750 1500 37500 40000 – – <450 1750 1500 – – – –	<450 1750 1250 37500 40000 – – <450 1750 1250 – – – –
B	<450 300 200 12500 5000 – – <450 1750 1250 – – – –	<450 1750 1500 37500 40000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 1500 37500 30000 – –	<450 1750 1000 37500 30000 – – <450 1750 1500 – – – –	<450 1750 1000 37500 37500 – – <450 1750 1250 – – – –
C	<450 1750 1500 37500 38000 – – <450 1750 1900 – – – –	<450 1750 1500 37500 35000 – – <450 1750 1000 – – – –	<450 1750 1800 – – – – <450 1750 300 37500 12500 – –	<450 1750 1500 37500 40000 – – <450 1750 1500 – – – –	<450 1750 1250 37500 30000 – – <450 1750 400 – – – –

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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

	11	12	13	14	15
A	<450 1750 1000 – – – <450 1750 1250 37500 35000 – –	<450 1750 1250 37500 32300 – <450 1750 1500 – – – –	<450 1750 1250 37500 37500 – <450 1750 1250 – – – –	<450 1750 2750 – – – <450 1750 2000 37500 42500 – –	<450 1750 1750 37500 40000 – <450 1750 1500 – – – –
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C	<450 1750 1500 – – – <450 1750 1000 37500 25000 – –	<450 1750 2000 37500 21000 – <450 300 450 – – – –	<450 1750 1500 37500 40000 – <450 1750 2030 – – – –	<450 1750 1500 – – – <450 1750 700 37500 30000 – –	<450 1750 1500 37500 30000 – <450 1750 700 – – – –

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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

	16	17	18	19	20
A	<450 1750 1750 37500 40000 – – <450 1750 1750 – – – –	<450 1750 2000 – – – – <450 1750 1500 37500 45000 – –	<450 1750 1500 37500 35000 – – <450 1750 1500 – – – –	<450 1750 1500 37500 25000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 1500 37500 40000 – –
B	<450 1750 1750 37500 42500 – – <450 1750 2000 – – – –	<450 1750 1500 – – – – <450 1750 2000 37500 40000 – –	<450 1750 1500 37500 40000 – – <450 1750 1500 – – – –	<450 1750 1500 37500 35000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 2000 37500 40000 – –
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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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

	21	22	23	24	25
A	<450 1750 1500 37500 35000 – <450 1750 1500 – – – –	<450 1750 1500 37500 40000 – <450 1750 1500 – – – –	<450 1750 1500 – – – <450 1750 1500 37500 35000 – –	<450 1750 1500 37500 30000 – <450 1750 1500 – – – –	<450 1750 1500 37500 35000 – <450 1750 1500 – – – –
B	<450 1750 1500 37500 37500 – <450 1750 2000 – – – –	<450 1750 1500 37500 37500 – <450 1750 2000 – – – –	<450 1750 1500 – – – <450 1750 1500 37500 35000 10.36 <1	<450 1750 4000 37500 60000 9.12 <1 <450 1750 1500 – – –	<450 1750 1500 37500 40000 – <450 1750 1500 – – – –
C	<450 1750 2000 37500 35000 – <450 1750 1000 – – – –	<450 1750 2000 37500 40000 – <450 1750 1000 – – – –	<450 1750 1000 – – – <450 1750 1000 37500 25000 – –	<450 1750 1500 37500 40000 – <450 1750 200 – – – –	<450 1750 1500 37500 30000 – <450 300 250 – – – –

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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

	26	27	28	29	30
A	<450 1750 1500 – – – <450 1750 1250 37500 35000 – –	<450 1750 1500 37500 30000 – – <450 1750 1500 – – – –	<450 1750 1500 37500 30000 – – <450 1750 1000 – – – –	<450 1750 1500 – – – <450 1750 1750 37500 45000 – –	<450 1750 1500 37500 38000 – – <450 1750 1750 1500 – – – –
B	<450 1750 1500 – – – – <450 1750 1500 37500 35000 – – –	<450 1750 1750 37500 35000 – – <450 1750 1500 – – – –	<450 1750 1500 37500 25000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 1500 37500 30000 – –	<450 1750 1500 37500 30000 – – <450 1750 1250 – – – –
C	<450 1750 1500 – – – – <450 300 250 17500 15000 – –	<450 1750 1500 37500 30000 – – <450 300 300 – – – –	<450 1750 1250 37500 20000 – – <450 300 300 – – – –	<450 1750 1500 – – – – <450 300 250 17500 8000 – –	<450 1750 1500 37500 40000 – – <450 300 450 – – – –

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (I-V-1 PHA) [bkg.]
300 – IM-253/PD (I-V-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]

1. Dry Dock 1

e. Localized Grid Maps (North Wall)

31

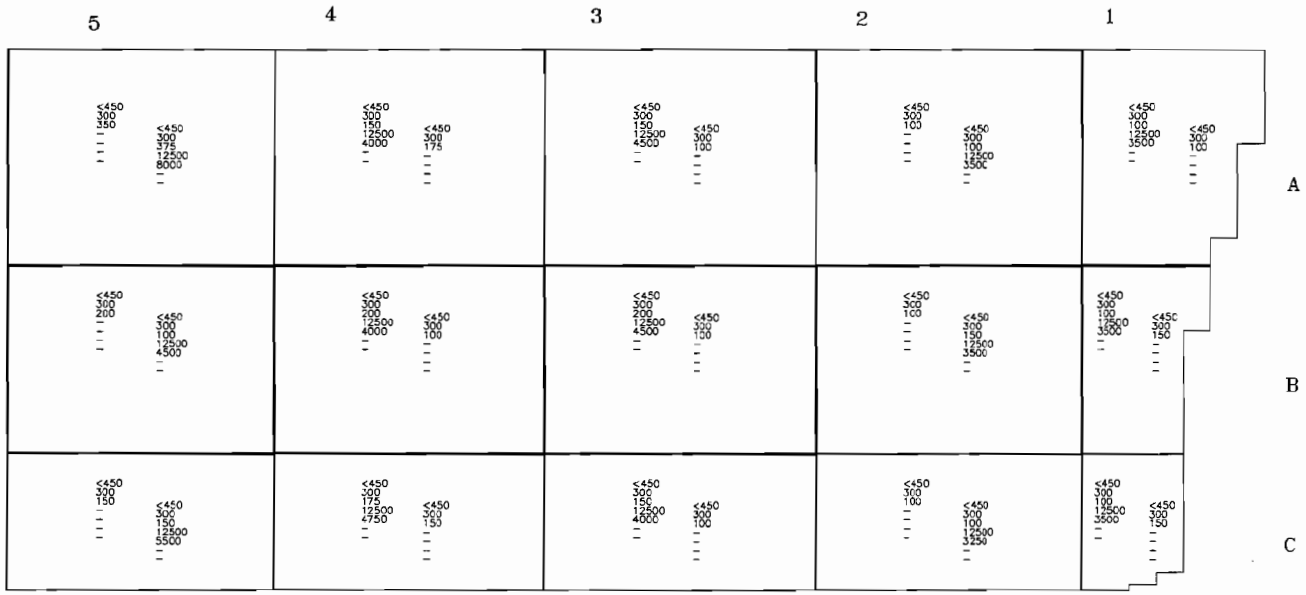
A	<450 1750 1500 37500 30000 – –	<450 1750 1250 – – – –
B	<450 1750 1250 – – – –	<450 1750 1250 37500 30000 – –
C	<450 1750 1500 37500 30000 – –	<450 1750 1500 – – – –

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]

1. Dry Dock 1

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]

1. Dry Dock 1

e. Localized Grid Maps (South Wall)

	10	9	8	7	6
A	<450 1750 1250< 37500 40300 - <450 1750 1250 - - -	<450 1750 1750 37500 40000 - <450 1750 1500 - - -	<450 1750 1500 - - - <450 1750 1750 37500 40000 - -	<450 1750 1750 37500 37500 - <450 1750 1500 - - -	<450 1750 2000 37500 35000 - <450 1750 350 - - -
B	<450 1750 1500 37500 37500 - <450 1750 1250 - - -	<450 1750 2000 37500 40000 - <450 1750 1600 - - -	<450 1750 1750 - - - <450 1750 1500 37500 35000 - -	<450 1750 1750 37500 40000 - <450 1750 1500 - - -	<450 1750 1750 37500 37500 - <450 300 250 - - -
C	<450 1750 950 37500 25300 - <450 300 300 - - -	<450 1750 1500 37500 40000 - <450 300 250 - - -	<450 1750 1500 - - - <450 300 350 12500 8500 - -	<450 1750 1500 37500 40000 - <450 1750 850 - - -	<450 300 200 37500 6000 - <450 1750 2000 - - -

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]

1. **Dry Dock 1**

e. **Localized Grid Maps (South Wall)**

	15	14	13	12	11	
	<450 1750 1500 37500 35000 – – <450 1750 1250 – – –	<450 1750 1500 – – – – <450 1750 1250 37500 35000 – –	<450 1750 1000 37500 35000 – – <450 1750 1250 – – – –	<450 1750 1500 37500 40000 – – <450 1750 1250 – – – –	<450 1750 1250 – – – – <450 1750 1250 37500 40000 – –	A
	<450 1750 1500 37500 35000 – – <450 1750 2000 – – – –	<450 1750 1500 – – – – <450 1750 2000 37500 35000 – –	<450 1750 1250 37500 30000 – – <450 1750 2000 – – – –	<450 1750 1500 37500 40000 – – <450 1750 1500 – – – –	<450 1750 1500 – – – – <450 1750 1500 37500 42500 – –	B
	<450 1750 1250 37500 35000 – – <450 300 250 – – – –	<450 1750 1250 – – – – <450 1750 750 37500 22500 – –	<450 1750 1500 37500 35000 – – <450 1750 1250 – – – –	<450 1750 1500 37500 37500 – – <450 1750 950 – – – –	<450 1750 1500 – – – – <450 300 300 12500 12500 – –	C

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]

1. Dry Dock 1

e. Localized Grid Maps (South Wall)

	20	19	18	17	16	
	<450 1750 1500 – – – <450 1750 1250 37500 30000 – –	<450 1750 1250 37500 30000 – <450 1750 1250 – – – –	<450 1750 1750 37500 45000 – <450 1750 1500 – – – –	<450 1750 1500 – – – <450 1750 2000 37500 50000 – –	<450 1750 1750 37500 40000 – <450 1750 1800 – – – –	A
	<450 1750 2500 – – – <450 1750 1500 37500 40000 – –	<450 1750 3000 37500 40000 – <450 1750 1000 – – – –	<450 1750 1250 37500 30000 – <450 1750 2000 – – – –	<450 1750 1750 – – – <450 1750 2000 37500 35000 – –	<450 750 500 37500 42000 – <450 1750 2000 – – – –	B
	<450 1750 1000 – – – <450 1750 850 37500 27500 – –	<450 1750 1500 37500 25000 – <450 1750 650 – – – –	<450 1750 1500 37500 30000 – <450 1750 650 – – – –	<450 1750 1500 – – – <450 1750 850 37500 25000 – –	<450 1750 1500 37500 40000 – <450 1750 750 – – – –	C

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]

1. Dry Dock 1

e. Localized Grid Maps (South Wall)

	25	24	23	22	21
A	<450 1750 1500 37500< 35000 - - <450 1750 1750 - - -	<450 1750 2000 37500 35000 - - <450 1750 1500 - - -	<450 1750 2000 - - - - <450 1750 2000 37500 35000 - -	<450 1750 2000 37500 40000 - - <450 1750 2000 - - - -	<450 1750 1500 37500 35000 - - <450 1750 2000 - - - -
B	<450 1750 1500 37500 40000 - - <450 1750 2000 - - - -	<450 1750 1500 37500 40000 - - <450 1750 2000 - - - -	<450 1750 1750 - - - - <450 1750 1500 37500 35000 - -	<450 1750 2000 37500 40000 - - <450 1750 1500 - - - -	<450 1750 1500 37500 40000 - - <450 1750 1500 - - - -
C	<450 1750 1500 37500 40000 - - <450 300 250 - - - -	<450 1750 1500 37500 40000 - - <450 1750 750 - - - -	<450 1750 1500 - - - - <450 1750 875 37500 25000 - -	<450 1750 1500 37500 35000 - - <450 1750 850 - - - -	<450 1750 1500 37500 40000 - - <450 300 350 - - - -

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]

1. Dry Dock 1

e. Localized Grid Maps (South Wall)

	30	29	28	27	26	
	<450 1750 2000 37500 40000 – – <450 1750 2000 – – –	<450 1750 1500 – – – <450 1750 1500 37500 40000 – –	<450 1750 1500 37500 40000 – – <450 1750 2250 – – –	<450 1750 1500 37500 40000 – – <450 1750 1000 – – –	<450 1750 2000 – – – <450 1750 1500 37500 40000 – –	A
	<450 1750 1500 37500 40000 – – <450 1750 2000 – – –	<450 1750 1500 – – – <450 1750 2000 37500 40000 – –	<450 1750 2000 37500 40000 – – <450 1750 1500 – – –	<450 1750 1500 37500 32500 – – <450 1750 1500 – – –	<450 1750 1500 – – – – <450 1750 1750 37500 42500 – –	B
	<450 1750 1750 37500 35000 – – <450 300 300 – – –	<450 1750 1250 – – – – <450 300 300 12500 10000 – –	<450 1750 1700 37500 25000 – – <450 300 200 – – –	<450 1750 2000 37500 35000 – – <450 300 300 – – –	<450 1750 1500 – – – – <450 1750 225 12500 12500 – –	C

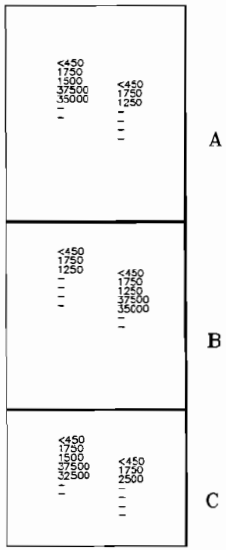
Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (South Wall)

31

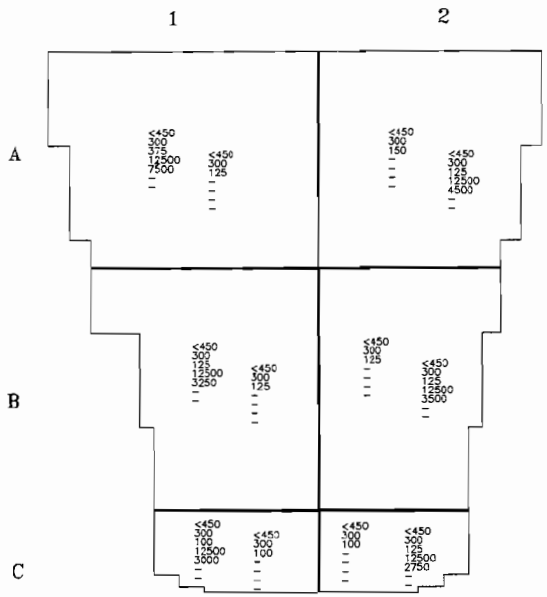


Sample Data

<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 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]

1. Dry Dock 1

e. Localized Grid Maps (West Wall)

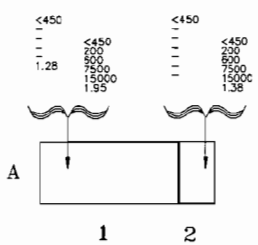


Sample Data

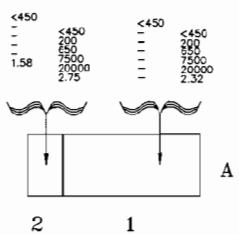
< 450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

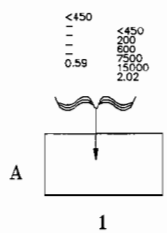
e. Localized Grid Maps (Service Galleries)



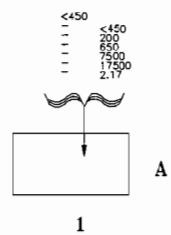
SG #1



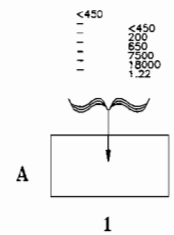
SG #2



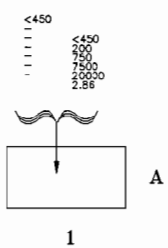
SG #3



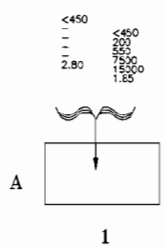
SG #4



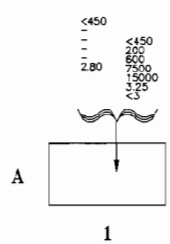
SG #5



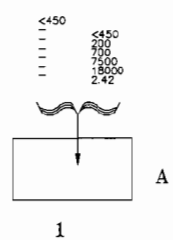
SG #6



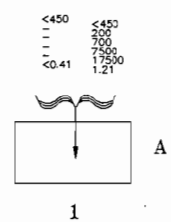
SG #7



SG #8



SG #9



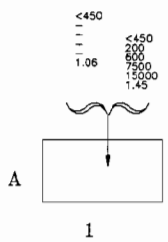
SG #10

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

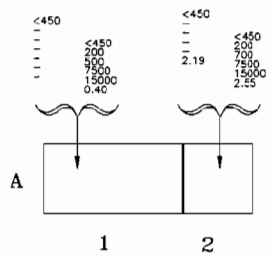
Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

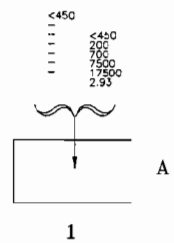
e. Localized Grid Maps (Service Galleries)



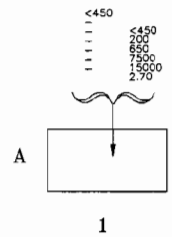
SG #11



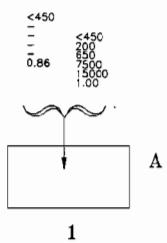
SG #11A



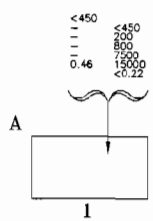
SG #12



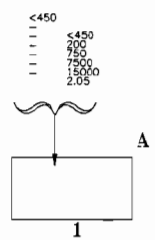
SG #13



SG #14



SG #15



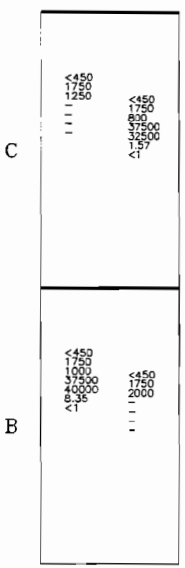
SG #16

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

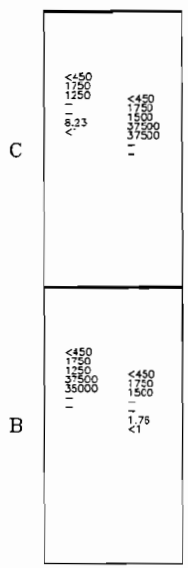
Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

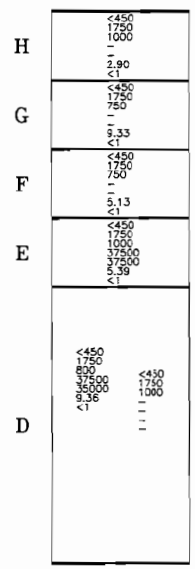
e. Localized Grid Maps (Water Collection Troughs)



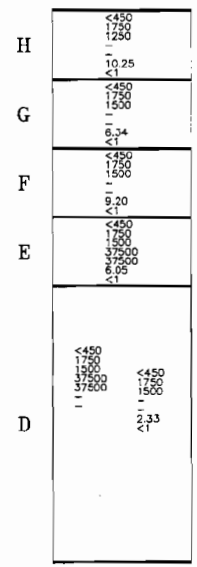
SOUTH TROUGH



NORTH TROUGH



SOUTH TROUGH



NORTH TROUGH

Notes:
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.]
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]

1. Dry Dock 1

e. Localized Grid Maps (Water Collection Troughs)

R	<450 1750 1750 – – 8.98 <1
Q	<450 1750 1750 37500 40000 10.21 <1
P	<450 1750 1250 – – 5.97 <1
O	<450 1750 1000 – – 10.52 <1
N	<450 1750 1000 – – 9.70 <1
M	<450 1750 1500 37500 40000 9.87 <1
L	<450 1750 1250 – – 9.43 <1
K	<450 1750 1000 – – 5.81 <1
J	<450 1750 1000 – – 8.73 <1
I	<450 1750 1000 37500 35000 3.46 <1

SOUTH TROUGH

R	<450 1750 1500 – – 6.58 <1
Q	<450 1750 1500 37500 35000 7.02 <1
P	<450 1750 1750 – – 9.11 <1
O	<450 1750 1750 – – 9.54 <1
N	<450 1750 1750 – – 6.12 <1
M	<450 1750 1500 37500 35000 6.86 <1
L	<450 1750 1750 – – 8.64 <1
K	<450 1750 1500 – – 10.65 <1
J	<450 1750 1500 – – 9.98 <1
I	<450 1750 1500 37500 35000 11.37 <1

NORTH TROUGH

AB	<450 1750 1500 – – 7.00 <1
AA	<450 1750 1750 37500 37500 7.91 <1
Z	<450 1750 1250 – – 8.04 <1
Y	<450 1750 1250 37500 37500 2.76 <1
X	<450 1750 1750 – – 8.48 <1
W	<450 1750 1250 – – 8.36 <1
V	<450 1750 1000 – – 6.46 <1
U	<450 1750 1000 37500 37500 8.82 <1
T	<450 1750 1000 – – 10.03 <1
S	<450 1750 1000 – – 9.73 <1

SOUTH TROUGH

AB	<450 1750 1500 – – 5.94 <1
AA	<450 1750 1250 37500 40000 5.59 <1
Z	<450 1750 1250 – – 9.89 <1
Y	<450 1750 1250 37500 40000 9.71 <1
X	<450 1750 1500 – – 13.21 <1
W	<450 1750 1500 – – 6.30 <1
V	<450 1750 1750 – – 5.11 <1
U	<450 1750 1500 37500 35000 9.17 <1
T	<450 1750 1500 – – 9.22 <1
S	<450 1750 1500 – – 8.58 <1

NORTH TROUGH

Notes:
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 [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 P-HA) [bkg.]
300 – IM-253/PD (HV-1 P-HA) [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]

1. Dry Dock 1

e. Localized Grid Maps (Water Collection Troughs)

AL	<450 1750 1500 – – 7.94 <1
AK	<450 1750 1750 – – 5.27 <1
AJ	<450 1750 1500 – – 7.58 <1
AI	<450 1750 1500 37500 40000 8.23 <1
AH	<450 1750 1500 – – 5.23 <1
AG	<450 1750 1500 – – 3.11 <1
AF	<450 1750 1500 – – 4.59 <1
AE	<450 1750 1500 37500 35000 7.22 <1
AD	<450 1750 1750 – – 5.83 <1
AC	<450 1750 1250 – – 8.03 <1

SOUTH TROUGH

AL	<450 1750 1250 – – 6.19 <1
AK	<450 1750 1500 – – 9.44 <1
AJ	<450 1750 1500 – – 9.45 <1
AI	<450 1750 1500 37500 37500 10.43 <1
AH	<450 1750 1500 – – 4.64 <1
AG	<450 1750 1250 – – 4.20 <1
AF	<450 1750 1500 – – 5.58 <1
AE	<450 1750 1250 37500 40000 8.79 <1
AD	<450 1750 1500 – – 7.84 <1
AC	<450 1750 1500 – – 10.15 <1

NORTH TROUGH

AV	<450 1750 1500 – – 8.86 <1
AU	<450 1750 1250 – – 8.42 <1
AT	<450 1750 1500 37500 37500 8.34 <1
AS	<450 1750 1500 – – 4.58 <1
AR	<450 1750 1500 – – 6.02 <1
AQ	<450 1750 1500 – – 7.17 <1
AP	<450 1750 1250 37500 25000 3.73 <1
AO	<450 1750 1000 – – 3.24 <1
AN	<450 1750 1250 – – 9.72 <1
AM	<450 1750 1000 37500 30000 5.30 <1

SOUTH TROUGH

AV	<450 1750 1000 – – 5.20 <1
AU	<450 1750 1250 – – 4.78 <1
AT	<450 1750 1250 37500 40000 6.35 <1
AS	<450 1750 1500 – – 8.94 <1
AR	<450 1750 1500 – – 6.11 <1
AQ	<450 1750 1500 – – 10.38 <1
AP	<450 1750 1500 37500 40000 8.67 <1
AO	<450 1750 1250 – – 9.47 <1
AN	<450 1750 1250 – – 6.03 <1
AM	<450 1750 1000 37500 35000 1.50 <1

NORTH TROUGH

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

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]

1. Dry Dock 1

e. Localized Grid Maps (Water Collection Troughs)

BF	<450 1750 1500 – – 8.76 <1
BE	<450 1750 1500 37500 30000 5.24 <1
BD	<450 1750 1750 – – 6.79 <1
BC	<450 1750 1500 – – 8.84 <1
BB	<450 1750 1500 – – 6.93 <1
BA	<450 1750 1500 37500 37500 4.99 <1
AZ	<450 1750 1500 – – 5.91 <1
AY	<450 1750 1400 – – 4.90 <1
AX	<450 1750 1400 – – 5.38 <1
AW	<450 1750 1500 37500 40000 5.96 <1

SOUTH TROUGH

BF	<450 1750 1000 – – 6.62 <1
BE	<450 1750 1000 37500 45000 7.41 <1
BD	<450 1750 1500 – – 5.61 <1
BC	<450 1750 1500 – – 10.99 <1
BB	<450 1750 1500 – – 10.61 <1
BA	<450 1750 1500 37500 35000 7.88 <1
AZ	<450 1750 1500 – – 8.28 <1
AY	<450 1750 1250 – – 8.41 <1
AX	<450 1750 1250 – – 8.09 <1
AW	<450 1750 1500 37500 35000 7.65 <1

NORTH TROUGH

BP	<450 1750 1200 37500 30000 4.47 <1
BO	<450 1750 1500 – – 5.36 <1
BN	<450 1750 1750 – – 8.78 <1
BM	<450 1750 1500 37500 42500 9.99 <1
BL	<450 1750 1250 – – 5.14 <1
BK	<450 1750 1500 – – 9.43 <1
BJ	<450 1750 1750 – – 5.19 <1
BI	<450 1750 1500 37500 40000 8.60 <1
BH	<450 1750 1750 – – 10.97 <1
BG	<450 1750 1500 – – 4.85 <1

SOUTH TROUGH

BP	<450 1750 1500 37500 35000 10.05 <1
BO	<450 1750 1250 – – 8.87 <1
BN	<450 1750 1250 – – 8.30 <1
BM	<450 1750 1000 37500 35000 5.30 <1
BL	<450 1750 1250 – – 4.90 <1
BK	<450 1750 1250 – – 5.27 <1
BJ	<450 1750 1250 – – 9.23 <1
BI	<450 1750 1500 37500 40000 4.34 <1
BH	<450 1750 1250 – – 8.27 <1
BG	<450 1750 1000 – – 4.25 <1

NORTH TROUGH

Notes:
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.]
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]

1. Dry Dock 1

e. Localized Grid Maps (Water Collection Troughs)

BZ	<450 1750 1250 – – 4.24 <1
BY	<450 1750 1000 – – 5.85 <1
BX	<450 1750 1000 – – 9.47 <1
BW	<450 1750 1000 37500 30000 6.42 <1
BV	<450 1750 1250 – – 7.74 <1
BU	<450 1750 1250 – – 5.08 <1
BT	<450 1750 1250 – – 8.31 <1
BS	<450 1750 1000 37500 32500 9.21 <1
BR	<450 1750 900 – – 5.97 <1
BQ	<450 1750 1000 – – 5.17 <1

SOUTH TROUGH

BZ	<450 1750 1000 – – 5.03 <1
BY	<450 1750 1250 – – 3.00 <1
BX	<450 1750 1250 – – 9.31 <1
BW	<450 1750 1250 37500 35000 5.97 <1
BV	<450 1750 1000 – – 4.78 <1
BU	<450 1750 1250 – – 0.95
BT	<450 1750 1250 – – 4.28 <1
BS	<450 1750 1250 37500 35000 8.80 <1
BR	<450 1750 1250 – – 9.26 <1
BQ	<450 1750 1500 – – 9.32 <1

NORTH TROUGH

CJ	<450 1750 1000 – – 8.50 <1
CI	<450 1750 1000 37500 30000 7.80 <1
CH	<450 1750 900 – – 4.47 <1
CG	<450 1750 1000 – – 8.67 <1
CF	<450 1750 950 – – 5.92 <1
CE	<450 1750 1000 37500 25000 4.15 <1
CD	<450 1750 1000 – – 7.82 <1
CC	<450 1750 1500 – – 7.81 <1
CB	<450 1750 1500 – – 4.46 <1
CA	<450 1750 1000 37500 27000 3.07 <1

SOUTH TROUGH

CJ	<450 1750 1000 – – 4.88 <1
CI	<450 1750 1000 37500 27500 5.90 <1
CH	<450 1750 1000 – – 5.38 <1
CG	<450 1750 1000 – – 5.12 <1
CF	<450 1750 1000 – – 6.28 <1
CE	<450 1750 1000 37500 25000 1.95 <1
CD	<450 1750 1250 – – 4.84 <1
CC	<450 1750 1250 – – 4.97 <1
CB	<450 1750 1000 – – 5.51 <1
CA	<450 1750 1250 37500 30000 4.83 <1

NORTH TROUGH

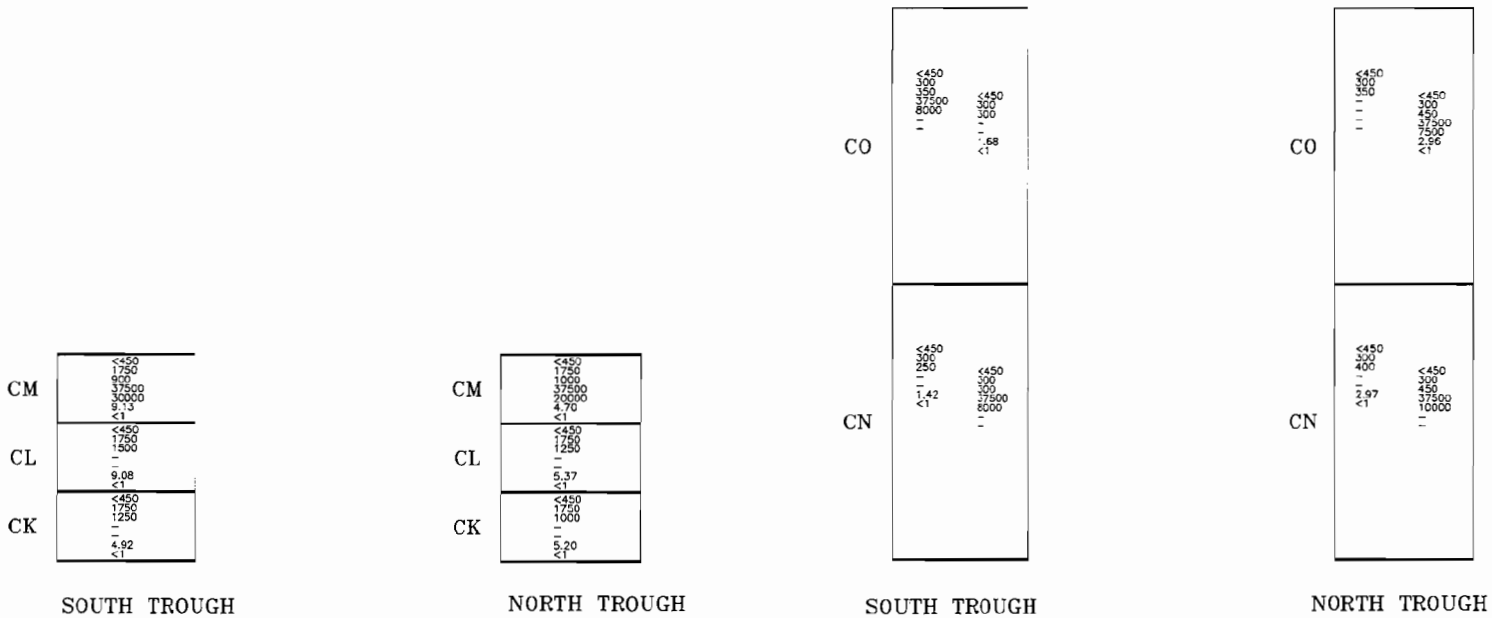
Notes:
The data shown for each trough grid applies to the total surface area of the floor and both walls of the trough.

Sample Data

<450 – IM-247/PD Results [$\mu\mu Cv/20cm^2$]
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 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

e. Localized Grid Maps (Water Collection Troughs)

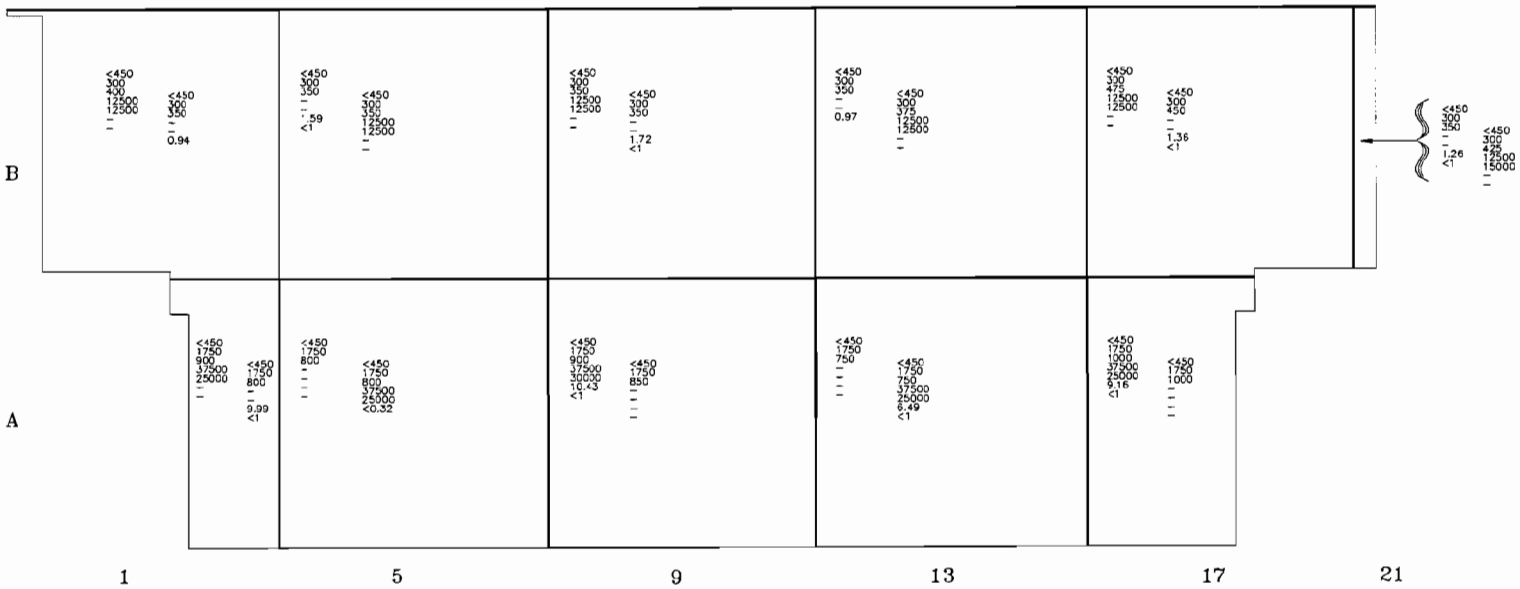


Notes:
The data shown for each trough grid applies to the total surface area of the floor and both walls of the trough.

Sample Data
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
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 Resuts [pCi/g]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

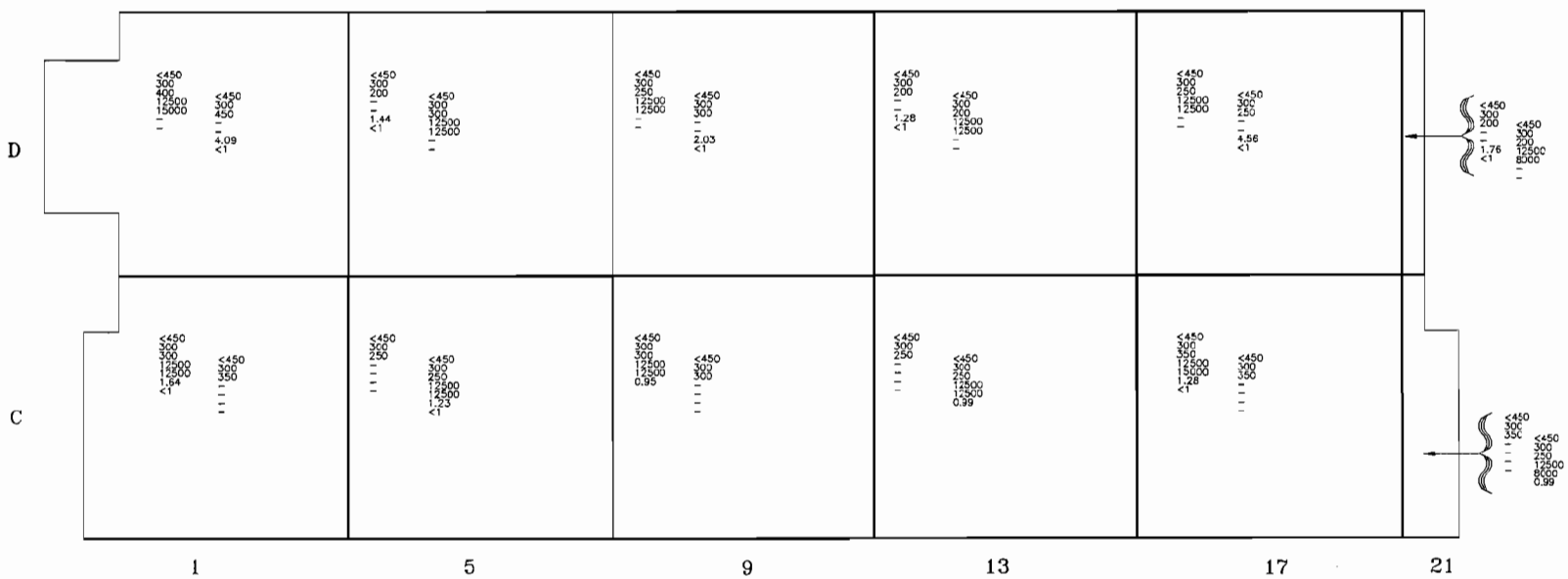


Sample Data

<450 – IM-247/PD Results [µµCi/20cm²]
200 – IM-253/PD (HV-1 P-IA) [bkg.]
300 – IM-253/PD (HV-1 P-IA) [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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)



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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
N	<450 300 400 – – 0.89	<450 300 350 – – 0.99	<450 300 750 12500 20000 3.47 <1	<450 300 350 – – 1.03 <1	<450 300 400 – – 1.14 <1	<450 300 350 – – 1.30 <1	<450 300 350 12500 13000 1.02 <1	<450 300 400 – – 1.09 <1	<450 300 400 12500 15000 1.19 <1	<450 300 350 – – 2.20 <1	<450 300 400 – – 0.70	<450 300 500 – – 2.93 <1	<450 300 500 12500 17500 1.24 <1	<450 300 500 – – 2.71 <1	<450 300 375 12500 12500 1.87 <1	<450 300 325 – – 0.95	<450 300 300 – – 1.23 <1	<450 300 450 – – 3.01 <1	<450 300 550 12500 20000 4.69 <1	<450 300 250 – – 2.00 <1	<450 300 550 – – 1.98 <1
M	<450 300 250 – – 1.67 <1	<450 300 425 12500 17500 3.63 <1	<450 300 675 – – 3.68 <1	<450 300 350 – – 1.25 <1	<450 300 350 12500 12500 1.22 <1	<450 300 400 – – 2.04 <1	<450 300 400 – – 1.35 <1	<450 300 350 12500 15000 1.18 <1	<450 300 350 – – 1.68 <1	<450 300 400 – – 1.10 <1	<450 300 400 – – 1.03 <1	<450 300 350 12500 15000 1.12 <1	<450 300 375 – – 1.74 <1	<450 300 400 – – 2.38 <1	<450 300 425 – – 1.37 <1	<450 300 450 12500 15000 1.10 <1	<450 300 450 – – 1.33 <1	<450 300 550 – – 3.25 <1	<450 300 550 – – 3.59 <1	<450 300 400 12500 12500 1.84 <1	<450 300 250 – – 1.92 <1
L	<450 300 325 – – 2.31 <1	<450 300 525 – – 3.81 <1	<450 300 650 12500 15000 3.68 <1	<450 300 375 – – 1.19 <1	<450 300 400 – – 0.74	<450 300 375 12500 12500 2.15 <1	<450 300 400 – – 0.82	<450 300 400 – – 0.84	<450 300 400 – – 1.24 <1	<450 300 400 12500 15000 1.57 <1	<450 300 400 – – 1.69 <1	<450 300 450 – – 0.92	<450 300 450 – – 1.97 <1	<450 300 450 12500 12500 1.62 <1	<450 300 400 – – 1.41 <1	<450 300 350 – – 1.21 <1	<450 300 350 12500 15000 0.93	<450 300 500 – – 2.08 <1	<450 300 650 12500 20000 4.00 <1	<450 300 350 – – 2.55 <1	<450 300 350 – – 4.24 <1
K	<450 300 300 – – 1.93 <1	<450 300 525 12500 15000 3.33 <1	<450 300 650 – – 3.77 <1	<450 300 400 – – 0.62	<450 300 400 12500 12500 1.61 <1	<450 300 350 – – 1.04 <1	<450 300 375 – – 0.67	<450 300 375 12500 15000 0.60	<450 300 425 – – 1.10 <1	<450 300 400 – – 1.01 <1	<450 300 450 – – 1.22 <1	<450 300 350 12500 12500 1.08 <1	<450 300 375 – – 1.13 <1	<450 300 400 – – 1.40 <1	<450 300 400 – – 1.34 <1	<450 300 350 12500 12500 0.83	<450 300 400 – – 1.98 <1	<450 300 550 – – 2.92 <1	<450 300 575 – – 2.51 <1	<450 300 400 12500 12500 1.75 <1	<450 300 300 – – 1.73 <1
J	<450 300 350 – – 2.24 <1	<450 300 300 – – 1.86 <1	<450 300 650 – – 4.08 <1	<450 300 300 12500 15000 2.64 <1	<450 300 300 – – 1.20 <1	<450 300 400 – – 1.92 <1	<450 300 350 12500 15000 2.24 <1	<450 300 350 – – 1.14 <1	<450 300 350 12500 13000 1.10 <1	<450 300 350 – – 1.91 <1	<450 300 400 – – 1.36 <1	<450 300 400 – – 1.04 <1	<450 300 300 12500 20000 0.69	<450 300 400 – – 1.69 <1	<450 300 400 12500 12500 1.72 <1	<450 300 400 – – 1.37 <1	<450 300 400 – – 1.57 <1	<450 300 450 12500 12500 1.31 <1	<450 300 650 – – 2.19 <1	<450 300 300 – – 2.25 <1	<450 300 250 – – 1.76 <1
I	<450 300 325 – – 1.42 <1	<450 300 425 12500 12500 2.59 <1	<450 300 550 – – 3.72 <1	<450 300 350 – – 1.40 <1	<450 300 350 12500 15000 1.31 <1	<450 300 375 – – 2.43 <1	<450 300 400 – – 1.84 <1	<450 300 400 12500 15000 3.96 <1	<450 300 400 – – 4.06 <1	<450 300 475 – – 4.34 <1	<450 300 575 12500 15000 4.07 <1	<450 300 575 – – 3.96 <1	<450 300 550 – – 3.71 <1	<450 300 400 – – 1.14 <1	<450 300 550 – – 5.16 <1	<450 300 550 – – 4.30 <1	<450 300 550 12500 12500 4.11 <1	<450 300 575 – – 4.79 <1	<450 300 600 – – 4.09 <1	<450 300 400 12500 12000 2.14 <1	<450 300 200 – – 1.08 <1
H	<450 300 450 – – 2.71 <1	<450 300 450 – – 0.92	<450 300 450 – – 0.74	<450 300 450 12500 15000 0.94	<450 300 500 – – 0.54	<450 300 450 – – 1.09 <1	<450 300 450 12500 15000 1.51 <1	<450 300 400 – – 1.15 <1	<450 300 400 12500 15000 1.15 <1	<450 300 400 – – 1.37 <1	<450 300 400 – – 1.22 <1	<450 300 350 – – 1.23 <1	<450 300 350 12500 10000 1.21 <1	<450 300 350 – – 1.06 <1	<450 300 350 12500 10000 1.50 <1	<450 300 350 – – 1.63 <1	<450 300 300 – – 1.52 <1	<450 300 550 12500 12500 1.72 <1	<450 300 500 – – 3.74 <1	<450 300 450 – – 2.73 <1	<450 300 300 – – 1.23 <1
G	<450 300 400 – – 4.28 <1	<450 300 500 12500 15000 3.80 <1	<450 300 600 – – 4.29 <1	<450 300 400 – – 1.24 <1	<450 300 350 12500 15000 1.26 <1	<450 300 400 – – 1.25 <1	<450 300 400 – – 0.98	<450 300 350 12500 15000 1.18 <1	<450 300 450 – – 1.62 <1	<450 300 400 – – 1.35 <1	<450 300 400 12500 12500 1.22 <1	<450 300 400 – – 2.01 <1	<450 300 450 – – 2.07 <1	<450 300 400 – – 1.76 <1	<450 300 350 12500 15000 1.24 <1	<450 300 375 – – 0.72	<450 300 400 – – 0.75	<450 300 400 – – 1.15 <1	<450 300 600 12500 20000 3.36 <1	<450 300 350 – – 1.61 <1	<450 300 300 – – 0.69
F	<450 300 350 – – 1.53 <1	<450 300 425 – – 1.77 <1	<450 300 550 – – 3.84 <1	<450 300 350 12500 15000 1.25 <1	<450 300 375 – – 1.29 <1	<450 300 350 12500 12500 2.04 <1	<450 300 300 – – 1.15 <1	<450 300 375 – – 1.95 <1	<450 300 350 – – 2.22 <1	<450 300 375 12500 15000 1.36 <1	<450 300 350 – – 1.28 <1	<450 300 300 – – 1.85 <1	<450 300 350 12500 15000 2.14 <1	<450 300 350 – – 2.03 <1	<450 300 350 – – 1.28 <1	<450 300 350 – – 1.55 <1	<450 300 350 12500 12000 1.09 <1	<450 300 525 – – 3.78 <1	<450 300 600 – – 2.92 <1	<450 300 400 12500 12500 1.47 <1	<450 300 350 – – 0.65
E	<450 300 325 – – 1.42 <1	<450 300 350 12500 12500 1.24 <1	<450 300 425 – – 1.44 <1	<450 300 350 – – 1.95 <1	<450 300 300 12500 15000 1.56 <1	<450 300 400 – – 1.95 <1	<450 300 350 – – 1.53 <1	<450 300 300 12500 15000 2.19 <1	<450 300 400 – – 1.72 <1	<450 300 400 – – 1.28 <1	<450 300 400 12500 15000 1.64 <1	<450 300 400 – – 1.20 <1	<450 300 350 – – 1.45 <1	<450 300 400 – – 1.45 <1	<450 300 400 12500 12500 1.30 <1	<450 300 400 – – 1.72 <1	<450 300 400 – – 1.73 <1	<450 300 400 – – 2.05 <1	<450 300 600 12500 20000 4.04 <1	<450 300 350 – – 0.92	<450 300 350 – – 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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
X	<450 300 250 – – 1.09 <1	<450 300 350 – – 1.38 <1	<450 300 600 12500 17500 3.49 <1	<450 300 375 – – 3.83 <1	<450 300 375 – – 1.62 <1	<450 300 375 – – 1.65 <1	<450 300 450 12500 12500 2.95 <1	<450 300 350 – – 1.48 <1	<450 300 300 12500 15000 0.86 <1	<450 300 300 – – 1.57 <1	<450 300 400 – – 1.43 <1	<450 300 400 – – 0.98 <1	<450 300 400 12500 15000 2.00 <1	<450 300 450 – – 2.22 <1	<450 300 400 12500 15000 2.25 <1	<450 300 400 – – 1.41 <1	<450 300 450 – – 1.42 <1	<450 300 400 – – 1.35 <1	<450 300 600 12500 17500 3.77 <1	<450 300 250 – – 1.37 <1	<450 300 250 – – 1.33 <1
W	<450 300 300 – – 3.07 <1	<450 300 400 12500 12000 1.75 <1	<450 300 700 – – 3.46 <1	<450 300 400 – – 1.35 <1	<450 300 350 – – 2.07 <1	<450 300 350 12500 15000 1.37 <1	<450 300 450 – – 2.16 <1	<450 300 350 12500 15000 2.06 <1	<450 300 400 – – 1.36 <1	<450 300 400 – – 2.58 <1	<450 300 400 – – 4.16 <1	<450 300 350 12500 15000 1.42 <1	<450 300 350 – – 1.54 <1	<450 300 350 – – 1.73 <1	<450 300 400 – – 1.35 <1	<450 300 375 12500 17500 1.12 <1	<450 300 350 – – 1.85 <1	<450 300 550 – – 1.01 <1	<450 300 600 – – 3.40 <1	<450 300 400 12500 10000 1.95 <1	<450 300 250 – – 1.30 <1
V	<450 300 300 – – 2.78 <1	<450 300 350 – – 1.74 <1	<450 300 550 12500 20000 3.97 <1	<450 300 350 – – 1.57 <1	<450 300 350 – – 1.74 <1	<450 300 350 – – 1.29 <1	<450 300 350 12500 15000 1.74 <1	<450 300 350 – – 1.34 <1	<450 300 300 12500 15000 1.83 <1	<450 300 400 – – 1.11 <1	<450 300 300 – – 1.73 <1	<450 300 350 – – 1.49 <1	<450 300 350 12500 15000 1.64 <1	<450 300 400 – – 1.67 <1	<450 300 375 12500 15000 1.94 <1	<450 300 375 – – 0.67	<450 300 350 – – 1.46 <1	<450 300 500 – – 0.89	<450 300 600 12500 20000 2.91 <1	<450 300 350 – – 1.26 <1	<450 300 300 – – 2.12 <1
U	<450 300 250 – – 2.23 <1	<450 300 300 12500 12500 1.90 <1	<450 300 300 – – 1.68 <1	<450 300 400 – – 1.28 <1	<450 300 400 – – 1.86 <1	<450 300 400 12500 15000 1.20 <1	<450 300 400 – – 1.46 <1	<450 300 400 12500 15000 1.81 <1	<450 300 400 – – 0.99 <1	<450 300 400 – – 1.62 <1	<450 300 300 – – 0.85 <1	<450 300 350 12500 15000 0.93 <1	<450 300 400 – – 1.24 <1	<450 300 400 – – 0.89 <1	<450 300 350 – – 2.17 <1	<450 300 350 12500 15000 1.37 <1	<450 300 300 – – 1.00 <1	<450 300 500 – – 2.07 <1	<450 300 500 – – 2.74 <1	<450 300 300 12500 15000 1.17 <1	<450 300 375 – – 1.39 <1
T	<450 300 250 – – 1.44 <1	<450 300 300 – – 1.45 <1	<450 300 400 12500 12500 0.88 <1	<450 300 400 – – 1.01 <1	<450 300 400 – – 1.55 <1	<450 300 400 – – 2.14 <1	<450 300 400 12500 12500 1.62 <1	<450 300 350 – – 1.73 <1	<450 300 350 12500 12500 0.92 <1	<450 300 400 – – 1.12 <1	<450 300 375 – – 0.88 <1	<450 300 400 – – 0.78 <1	<450 300 450 12500 15000 1.42 <1	<450 300 400 – – 1.26 <1	<450 300 450 12500 15000 1.51 <1	<450 300 500 – – 1.46 <1	<450 300 500 – – 1.34 <1	<450 300 575 – – 1.56 <1	<450 300 750 12500 20000 2.19 <1	<450 300 300 – – 1.56 <1	<450 300 400 – – 1.55 <1
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R	<450 300 350 – – 1.86 <1	<450 300 350 – – 0.75	<450 300 650 12500 15000 3.40 <1	<450 300 400 – – 1.38 <1	<450 300 425 – – 1.33 <1	<450 300 400 – – 2.31 <1	<450 300 400 12500 12500 1.49 <1	<450 300 350 – – 1.70 <1	<450 300 350 – – 3.27 <1	<450 300 350 12500 12000 1.60 <1	<450 300 350 – – 1.51 <1	<450 300 350 – – 1.18 <1	<450 300 350 – – 1.32 <1	<450 300 400 12500 15000 1.68 <1	<450 300 400 – – 1.29 <1	<450 300 375 – – 1.42 <1	<450 300 375 12500 12500 1.41 <1	<450 300 550 – – 1.22 <1	<450 300 800 12500 14500 3.47 <1	<450 300 400 – – 1.73 <1	<450 300 350 – – 2.90 <1
Q	<450 300 300 – – 1.49 <1	<450 300 325 12500 12500 1.42 <1	<450 300 550 – – 1.19 <1	<450 300 300 – – 1.05 <1	<450 300 350 – – 1.70 <1	<450 300 350 12500 10000 1.80 <1	<450 300 350 – – 0.79	<450 300 350 12500 12000 2.19 <1	<450 300 350 – – 2.88 <1	<450 300 400 – – 2.45 <1	<450 300 400 – – 2.59 <1	<450 300 400 12500 12000 2.81 <1	<450 300 400 – – 1.32 <1	<450 300 425 – – 1.52 <1	<450 300 425 – – 1.28 <1	<450 300 400 12500 12500 2.42 <1	<450 300 400 – – <0.33	<450 300 450 – – 1.53 <1	<450 300 800 – – 2.32 <1	<450 300 300 12500 10000 3.29 <1	<450 300 300 – – 2.42 <1
P	<450 300 300 – – 1.20 <1	<450 300 350 – – 0.98	<450 300 500 12500 15000 1.67 <1	<450 300 350 – – 1.46 <1	<450 300 375 12500 12500 1.19 <1	<450 300 400 – – 1.32 <1	<450 300 350 – – 1.16 <1	<450 300 400 – – 0.79	<450 300 400 12500 15000 0.80	<450 300 400 – – 1.03 <1	<450 300 425 – – 1.37 <1	<450 300 400 – – 1.73 <1	<450 300 400 12500 12500 1.90 <1	<450 300 375 – – 0.90	<450 300 375 12500 15000 1.68 <1	<450 300 425 – – 1.32 <1	<450 300 450 – – 1.17 <1	<450 300 550 – – 1.42 <1	<450 300 700 12500 20000 2.88 <1	<450 300 450 – – 1.09 <1	<450 300 350 – – 1.00 <1
O	<450 300 300 – – 2.03 <1	<450 300 300 – – 0.53	<450 300 475 12500 12500 0.61	<450 300 350 – – 1.35 <1	<450 300 375 – – 1.14 <1	<450 300 350 12500 15000 1.18 <1	<450 300 375 – – 0.85	<450 300 350 – – 1.28 <1	<450 300 350 – – 1.59 <1	<450 300 400 12500 15000 1.70 <1	<450 300 350 – – 1.58 <1	<450 300 350 – – 1.59 <1	<450 300 400 – – 2.42 <1	<450 300 400 12500 15000 1.92 <1	<450 300 400 – – 1.98 <1	<450 300 400 – – 1.53 <1	<450 300 400 12500 12500 0.97	<450 300 500 – – 1.18 <1	<450 300 500 – – 2.64 <1	<450 300 400 12500 12500 1.18 <1	<450 300 300 – – 1.00 <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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
AH	<450 300 275 12500 15000 3.15 <1	<450 300 400 – – 1.17 <1	<450 300 600 – – 2.77 <1	<450 300 375 – – 1.28 <1	<450 300 400 12500 15000 1.99 <1	<450 300 375 – – 1.78 <1	<450 300 375 – – 2.02 <1	<450 300 375 12500 12500 1.66 <1	<450 300 375 – – 1.48 <1	<450 300 425 – – 1.21 <1	<450 300 450 – – 0.75	<450 300 450 12500 15000 4.14 <1	<450 300 400 – – 1.31 <1	<450 300 250 – – 1.54 <1	<450 300 300 12500 15000 1.44 <1	<450 300 250 – – 2.38 <1	<450 300 250 – – 1.40 <1	<450 300 250 – – 1.61 <1	<450 300 500 12500 20000 3.50 <1	<450 300 500 – – 1.65 <1	<450 300 450 – – 1.03 <1
AG	<450 300 500 – – 2.90 <1	<450 300 550 12500 20000 2.98 <1	<450 300 650 – – 3.71 <1	<450 300 500 – – 1.55 <1	<450 300 450 – – 1.40 <1	<450 300 500 12500 15000 1.73 <1	<450 300 375 – – 1.47 <1	<450 300 400 – – 1.39 <1	<450 300 400 12500 15000 2.06 <1	<450 300 350 – – 1.12 <1	<450 300 350 – – 1.35 <1	<450 300 300 – – 1.47 <1	<450 300 300 12500 12500 1.43 <1	<450 300 300 – – 1.18 <1	<450 300 350 – – 1.89 <1	<450 300 400 12500 15000 1.72 <1	<450 300 425 – – 2.52 <1	<450 300 550 – – 2.81 <1	<450 300 550 – – 3.02 <1	<450 300 400 12500 12500 1.33 <1	<450 300 350 – – 1.74 <1
AF	<450 300 350 12500 9000 1.96 <1	<450 300 550 – – 3.13 <1	<450 300 600 – – 4.47 <1	<450 300 400 – – 1.65 <1	<450 300 375 12500 15000 1.00 <1	<450 300 400 – – 1.18 <1	<450 300 400 – – 0.52	<450 300 350 12500 15000 0.45	<450 300 400 – – 0.58	<450 300 425 – – 0.83	<450 300 350 – – 0.53	<450 300 375 12500 12500 0.86	<450 300 400 – – 0.54	<450 300 250 – – 1.11	<450 300 300 12500 15000 0.81	<450 300 300 – – 0.99	<450 300 350 – – 1.82	<450 300 350 – – 1.28	<450 300 550 12500 17500 3.61	<450 300 550 – – 1.10	<450 300 500 – – 2.02
AE	<450 300 350 – – 1.39 <1	<450 300 450 12500 15000 1.35 <1	<450 300 550 – – 3.45 <1	<450 300 300 – – 1.33 <1	<450 300 350 – – 1.29 <1	<450 300 350 12500 12500 1.42 <1	<450 300 350 – – 1.14 <1	<450 300 300 12500 12500 1.21 <1	<450 300 450 – – 1.52 <1	<450 300 400 – – 0.66	<450 300 400 – – 1.29 <1	<450 300 425 12500 12500 0.91	<450 300 400 – – 1.55 <1	<450 300 450 – – 1.32 <1	<450 300 400 12500 15000 1.44 <1	<450 300 450 – – 0.56	<450 300 400 – – 1.12 <1	<450 300 400 – – 1.17 <1	<450 300 600 12500 17500 2.97 <1	<450 300 450 – – 2.42 <1	<450 300 450 – – 1.78 <1
AD	<450 300 400 – – 1.60 <1	<450 300 400 – – 1.51 <1	<450 300 450 12500 15000 2.06 <1	<450 300 400 – – 1.33 <1	<450 300 350 – – 1.19 <1	<450 300 350 – – 1.65 <1	<450 300 350 12500 15000 2.36 <1	<450 300 350 – – 1.40 <1	<450 300 350 12500 15000 1.18 <1	<450 300 350 – – 1.38 <1	<450 300 350 – – 1.64 <1	<450 300 300 – – 1.88 <1	<450 300 300 12500 15000 1.91 <1	<450 300 400 – – 2.00 <1	<450 300 300 – – 2.29 <1	<450 300 350 12500 12500 1.47 <1	<450 300 500 – – 1.35 <1	<450 300 550 – – 1.93 <1	<450 300 650 – – 3.91 <1	<450 300 550 12500 15000 2.73 <1	<450 300 450 – – 2.62 <1
AC	<450 300 300 – – 1.49 <1	<450 300 350 12500 15000 1.09 <1	<450 300 550 – – 2.89 <1	<450 300 350 – – 1.58 <1	<450 300 350 – – 1.45 <1	<450 300 350 12500 12500 1.03 <1	<450 300 450 – – 1.65 <1	<450 300 400 12500 12500 1.18 <1	<450 300 350 – – 1.27 <1	<450 300 350 – – 1.07 <1	<450 300 300 – – 1.43 <1	<450 300 400 12500 15000 1.48 <1	<450 300 400 – – 0.58	<450 300 400 – – 1.18 <1	<450 300 400 12500 15000 0.69	<450 300 450 – – 1.14 <1	<450 300 450 – – 1.18 <1	<450 300 450 – – 1.59 <1	<450 300 550 12500 20000 3.16 <1	<450 300 400 – – 2.07 <1	<450 300 300 – – 3.34 <1
AB	<450 300 300 – – 1.41 <1	<450 300 350 – – 1.20 <1	<450 300 600 12500 15000 3.45 <1	<450 300 300 – – 1.52 <1	<450 300 350 – – 1.38 <1	<450 300 300 – – 1.63 <1	<450 300 300 12500 12500 1.41 <1	<450 300 375 – – 1.13 <1	<450 300 350 12500 12500 1.22 <1	<450 300 375 – – 0.66	<450 300 300 – – 0.80	<450 300 400 – – 0.78	<450 300 450 12500 15000 <0.43	<450 300 450 – – 0.72	<450 300 300 12500 12500 0.51	<450 300 375 – – 0.69	<450 300 375 – – 0.46	<450 300 500 – – 2.24 <1	<450 300 650 12500 20000 3.36 <1	<450 300 400 – – 1.39 <1	<450 300 300 – – 1.86 <1
AA	<450 300 350 – – 1.38 <1	<450 300 400 12500 15000 1.34 <1	<450 300 700 – – 4.00 <1	<450 300 325 – – 1.07 <1	<450 300 300 – – 1.54 <1	<450 300 300 12500 12500 1.57 <1	<450 300 300 – – 1.02 <1	<450 300 300 – – 1.45 <1	<450 300 300 – – 1.30 <1	<450 300 320 12500 12500 2.36 <1	<450 300 350 – – 0.87	<450 300 325 – – 1.54 <1	<450 300 350 – – 1.61 <1	<450 300 325 12500 12500 1.61 <1	<450 300 350 – – 1.90 <1	<450 300 450 12500 15000 1.40 <1	<450 300 425 – – 1.30 <1	<450 300 500 – – 3.16 <1	<450 300 600 – – 3.21 <1	<450 300 350 12500 12500 1.45 <1	<450 300 300 – – 1.33 <1
Z	<450 300 300 – – 1.44 <1	<450 300 400 – – 0.75	<450 300 500 12500 15000 1.48 <1	<450 300 400 – – 1.38 <1	<450 300 450 – – 1.54 <1	<450 300 400 – – 2.02 <1	<450 300 400 12500 15000 1.44 <1	<450 300 350 – – 1.46 <1	<450 300 400 12500 12500 1.18 <1	<450 300 350 – – 2.48 <1	<450 300 400 – – 1.79 <1	<450 300 375 – – 1.39 <1	<450 300 450 12500 12500 1.40 <1	<450 300 430 – – 1.61 <1	<450 300 400 12500 15000 1.80 <1	<450 300 400 – – 1.64 <1	<450 300 400 – – 1.82 <1	<450 300 450 – – 1.31 <1	<450 300 650 12500 20000 3.42 <1	<450 300 350 – – 1.08 <1	<450 300 300 – – 1.07 <1
Y	<450 300 200 – – 0.96	<450 300 350 12500 10000 1.64 <1	<450 300 550 – – 1.48 <1	<450 300 250 – – 0.84	<450 300 300 – – 1.58 <1	<450 300 350 12500 12500 1.88 <1	<450 300 300 – – 2.22 <1	<450 300 350 12500 15000 1.30 <1	<450 300 400 – – 1.61 <1	<450 300 400 – – 1.20 <1	<450 300 400 – – 0.89	<450 300 450 17500 14000 1.05 <1	<450 300 450 – – 1.24 <1	<450 300 430 – – 3.19 <1	<450 300 350 – – 1.74 <1	<450 300 350 12500 15000 2.13 <1	<450 300 425 – – 1.48 <1	<450 300 425 – – 1.54 <1	<450 300 650 – – 3.49 <1	<450 300 350 12500 12500 1.42 <1	<450 300 250 – – 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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
AR	<450 300 300 – – 1.54 <1	<450 300 450 12500 15000 1.07 <1	<450 300 550 – – 4.75 <1	<450 300 350 – – 1.43 <1	<450 300 400 – – 1.58 <1	<450 300 350 12500 12500 1.09 <1	<450 300 – – – 1.85 <1	<450 300 350 12500 12500 2.08 <1	<450 300 400 – – 1.50 <1	<450 300 400 – – 1.63 <1	<450 300 400 – – 1.86 <1	<450 300 350 12500 12500 1.62 <1	<450 300 350 – – 1.47 <1	<450 300 400 – – 1.00 <1	<450 300 350 12500 12500 1.51 <1	<450 300 425 – – 1.23 <1	<450 300 450 – – 0.96 <1	<450 300 450 – – 0.93 <1	<450 300 600 15000 15000 3.42 <1	<450 300 300 – – 1.17 <1	
AQ	<450 300 450 – – 1.66 <1	<450 300 500 12500 15000 0.69	<450 300 550 – – 3.77 <1	<450 300 500 – – 0.79	<450 300 500 – – 1.35 <1	<450 300 450 12500 15000 1.33 <1	<450 300 400 – – 1.04 <1	<450 300 400 12500 15000 1.04 <1	<450 300 400 – – 1.15 <1	<450 300 300 – – 1.23 <1	<450 300 300 – – 1.13 <1	<450 300 300 12500 12500 1.34 <1	<450 300 400 – – 1.34 <1	<450 300 400 – – 1.14 <1	<450 300 350 12500 12500 1.16 <1	<450 300 350 – – 1.90 <1	<450 300 350 – – 1.41 <1	<450 300 400 – – 1.22 <1	<450 300 600 12500 15000 3.58 <1	<450 300 350 – – 2.05 <1	
AP	<450 300 300 – – 1.09 <1	<450 300 400 – – 2.79 <1	<450 300 575 12500 17500 5.39 <1	<450 300 450 – – 2.17 <1	<450 300 400 – – 2.43 <1	<450 300 350 – – 1.34 <1	<450 300 400 12500 12500 1.79 <1	<450 300 350 – – 1.33 <1	<450 300 400 12500 12500 1.86 <1	<450 300 400 – – 1.07 <1	<450 300 300 – – 1.60 <1	<450 300 300 – – 1.69 <1	<450 300 350 12500 12500 1.32 <1	<450 300 300 – – 1.53 <1	<450 300 475 – – 1.25 <1	<450 300 625 12500 12500 1.20 <1	<450 300 475 – – 1.35 <1	<450 300 400 – – 0.92 <1	<450 300 450 – – 3.60 <1	<450 300 350 12500 12500 1.03 <1	
AO	<450 300 300 – – 2.03 <1	<450 300 450 12500 15000 1.39 <1	<450 300 550 – – 4.56 <1	<450 300 375 – – 1.69 <1	<450 300 300 – – 2.60 <1	<450 300 450 12500 15000 1.20 <1	<450 300 400 – – 0.96	<450 300 400 12500 15000 0.72	<450 300 400 – – 1.00 <1	<450 300 400 – – 0.96	<450 300 400 – – 1.22 <1	<450 300 400 12500 15000 2.28 <1	<450 300 400 – – 1.09 <1	<450 300 425 – – 0.97	<450 300 350 12500 12500 1.28 <1	<450 300 300 – – 0.78	<450 300 375 – – 1.17 <1	<450 300 450 – – 1.37 <1	<450 300 650 12500 17500 2.93 <1	<450 300 325 – – 0.97 <1	
AN	<450 300 450 – – 1.62 <1	<450 300 500 12500 15000 1.33 <1	<450 300 800 – – 2.83 <1	<450 300 400 – – 1.61 <1	<450 300 350 – – 1.43 <1	<450 300 350 12500 10000 1.59 <1	<450 300 300 – – 1.65 <1	<450 300 400 12500 15000 1.68 <1	<450 300 350 – – 1.78 <1	<450 300 350 – – 1.25 <1	<450 300 300 – – 1.68 <1	<450 300 500 12500 20000 1.97 <1	<450 300 400 – – 3.22 <1	<450 300 350 – – 1.20 <1	<450 300 350 12500 15000 1.34 <1	<450 300 350 – – 1.48 <1	<450 300 350 – – 1.58 <1	<450 300 350 – – 0.90 <1	<450 300 450 12500 15000 2.75 <1	<450 300 350 – – 1.29 <1	
AM	<450 300 350 – – 0.60	<450 300 850 – – 0.84	<450 300 450 12500 15000 2.45 <1	<450 300 400 – – 0.49	<450 300 450 – – 1.09 <1	<450 300 400 – – 0.77	<450 300 400 12500 12500 1.37 <1	<450 300 500 – – 1.07 <1	<450 300 500 12500 12500 1.26 <1	<450 300 300 – – 1.75 <1	<450 300 300 – – 0.52	<450 300 300 – – 2.59 <1	<450 300 325 12500 15000 1.54 <1	<450 300 350 – – 1.23 <1	<450 300 400 – – 1.82 <1	<450 300 350 12500 15000 1.70 <1	<450 300 350 – – 1.18 <1	<450 300 400 – – 1.30 <1	<450 300 400 – – 2.47 <1	<450 300 350 12500 12500 1.72 <1	
AL	<450 300 300 – – 2.21 <1	<450 300 550 12500 15000 3.40 <1	<450 300 550 – – 4.10 <1	<450 300 450 – – 1.25 <1	<450 300 400 – – 1.85 <1	<450 300 350 12500 12500 1.28 <1	<450 300 400 – – 1.77 <1	<450 300 350 12500 12500 1.69 <1	<450 300 400 – – 1.33 <1	<450 300 400 – – 1.76 <1	<450 300 350 – – 1.21 <1	<450 300 350 12500 15000 0.49	<450 300 350 – – 1.36 <1	<450 300 350 – – 1.90 <1	<450 300 350 12500 12500 1.56 <1	<450 300 350 – – 1.50 <1	<450 300 400 – – 1.23 <1	<450 300 400 – – 1.59 <1	<450 300 550 12500 17500 1.24 <1	<450 300 350 – – 1.11 <1	
AK	<450 300 300 – – 1.94 <1	<450 300 500 12500 13000 2.85 <1	<450 300 700 – – 3.38 <1	<450 300 400 – – 0.84	<450 300 350 – – 1.35 <1	<450 300 375 12500 13000 1.57 <1	<450 300 350 – – 1.28 <1	<450 300 350 12500 15000 <0.43	<450 300 300 – – <0.44	<450 300 350 – – 1.45 <1	<450 300 400 – – 1.26 <1	<450 300 425 12500 12500 2.21 <1	<450 300 450 – – 2.22 <1	<450 300 375 – – 1.48 <1	<450 300 400 12500 12500 0.99	<450 300 425 – – 1.59 <1	<450 300 400 – – 0.93	<450 300 450 – – 1.57 <1	<450 300 550 12500 15000 3.89 <1	<450 300 350 – – 1.06 <1	
AJ	<450 300 300 – – 1.23 <1	<450 300 300 – – 1.17 <1	<450 300 500 12500 17500 3.45 <1	<450 300 500 – – 1.17 <1	<450 300 300 – – 1.15 <1	<450 300 400 – – 0.85	<450 300 400 12500 15000 1.30 <1	<450 300 375 – – 2.29 <1	<450 300 350 12500 12500 1.78 <1	<450 300 350 – – 1.10 <1	<450 300 400 – – 0.94	<450 300 425 – – 1.05 <1	<450 300 400 12500 12500 1.31 <1	<450 300 350 – – 1.34 <1	<450 300 350 – – 0.72	<450 300 350 12500 12500 0.82	<450 300 350 – – 0.45	<450 300 400 – – 0.53	<450 300 500 – – 1.47 <1	<450 300 300 12500 12500 0.53	
AI	<450 300 300 – – 1.61 <1	<450 300 350 12500 12500 2.01 <1	<450 300 600 – – 3.62 <1	<450 300 350 – – 1.11 <1	<450 300 350 – – 1.74 <1	<450 300 400 12500 12500 1.48 <1	<450 300 400 – – 1.19 <1	<450 300 350 12500 12500 1.66 <1	<450 300 400 – – 1.26 <1	<450 300 350 – – 0.81	<450 300 350 – – 1.08 <1	<450 300 350 12500 12500 1.11 <1	<450 300 430 – – 1.49 <1	<450 300 430 – – 1.06 <1	<450 300 375 12500 15000 1.53 <1	<450 300 350 – – 1.30 <1	<450 300 350 – – 1.01 <1	<450 300 375 – – 0.81	<450 300 600 12500 20000 4.39 <1	<450 300 375 – – 2.28 <1	

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 P+A) [bkg.]
300 – IM-253/PD (HV-1 P+A) [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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
BB	<450 300 400 – – 1.07 <1	<450 300 350 – – 1.09 <1	<450 300 600 12500 17500 3.57 <1	<450 300 300 – – 0.86 <1	<450 300 300 – – 1.18 <1	<450 300 300 – – 1.04 <1	<450 300 300 12500 15000 1.32 <1	<450 300 450 – – 1.26 <1	<450 300 450 12500 15000 1.05 <1	<450 300 450 – – 1.45 <1	<450 300 425 – – 0.94 <1	<450 300 500 – – 1.64 <1	<450 300 500 12500 15000 1.20 <1	<450 300 500 – – 1.38 <1	<450 300 350 – – 1.74 <1	<450 300 350 12500 17500 1.41 <1	<450 300 350 – – 0.42 <1	<450 300 350 – – 1.06 <1	<450 300 600 – – 3.22 <1	<450 300 550 12500 17500 1.68 <1	<450 300 600 – – 1.15 <1
BA	<450 300 450 – – 1.38 <1	<450 300 400 12500 15000 1.31 <1	<450 300 575 – – 3.78 <1	<450 300 450 – – 1.09 <1	<450 300 450 – – 1.01 <1	<450 300 450 12500 15000 0.99 <1	<450 300 450 – – 1.79 <1	<450 300 550 12500 15000 2.58 <1	<450 300 450 – – 0.90 <1	<450 300 400 – – 1.19 <1	<450 300 425 – – 1.11 <1	<450 300 500 12500 15000 1.07 <1	<450 300 400 – – 1.26 <1	<450 300 450 – – 2.36 <1	<450 300 350 12500 17500 1.30 <1	<450 300 350 – – 1.48 <1	<450 300 350 – – 1.25 <1	<450 300 375 – – 1.35 <1	<450 300 600 12500 20000 3.40 <1	<450 300 450 – – 2.16 <1	<450 300 400 – – 1.54 <1
AZ	<450 300 400 – – 1.16 <1	<450 300 350 12500 15000 2.55 <1	<450 300 725 – – 1.82 <1	<450 300 800 – – 1.91 <1	<450 300 800 – – 3.41 <1	<450 300 400 12500 15000 1.38 <1	<450 300 300 – – 2.21 <1	<450 300 500 12500 15000 2.12 <1	<450 300 400 – – 0.78 <1	<450 300 400 – – 0.95 <1	<450 300 450 – – 1.33 <1	<450 300 450 12500 15000 1.23 <1	<450 300 450 – – 1.55 <1	<450 300 425 – – 3.36 <1	<450 300 500 12500 15000 1.35 <1	<450 300 350 – – 1.06 <1	<450 300 300 – – 0.76 <1	<450 300 400 – – 1.15 <1	<450 300 650 12500 17500 5.40 <1	<450 300 300 – – 2.04 <1	<450 300 275 – – 1.09 <1
AY	<450 300 300 – – 1.64 <1	<450 300 375 – – 2.26 <1	<450 300 550 12500 20000 3.44 <1	<450 300 575 – – 2.09 <1	<450 300 550 – – 1.40 <1	<450 300 500 – – 2.31 <1	<450 300 400 12500 15000 0.93 <1	<450 300 450 – – 4.03 <1	<450 300 355 12500 15000 0.67 <1	<450 300 350 – – 0.84 <1	<450 300 400 – – 1.28 <1	<450 300 350 – – 0.58 <1	<450 300 400 12500 15000 1.49 <1	<450 300 400 – – 3.38 <1	<450 300 400 – – 3.06 <1	<450 300 450 12500 16000 3.51 <1	<450 300 400 – – 3.07 <1	<450 300 500 – – 3.78 <1	<450 300 650 – – 3.85 <1	<450 300 350 12500 12500 1.77 <1	<450 300 300 – – 0.87 <1
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AV	<450 300 300 – – 1.77 <1	<450 300 250 – – 1.30 <1	<450 300 600 12500 17500 2.53 <1	<450 300 450 – – 2.44 <1	<450 300 450 – – 2.01 <1	<450 300 450 – – 2.19 <1	<450 300 450 12500 15000 1.88 <1	<450 300 450 – – 2.08 <1	<450 300 400 12500 15000 1.29 <1	<450 300 400 – – 1.78 <1	<450 300 400 – – 1.10 <1	<450 300 450 – – 1.17 <1	<450 300 450 12500 15000 1.18 <1	<450 300 450 – – 1.03 <1	<450 300 450 – – 1.57 <1	<450 300 450 12500 15000 1.38 <1	<450 300 450 – – 1.36 <1	<450 300 500 – – 4.16 <1	<450 300 650 – – 2.62 <1	<450 300 400 12500 15000 0.37 <1	<450 300 400 – – 1.37 <1
AU	<450 300 350 – – 1.48 <1	<450 300 350 12500 12500 0.67 <1	<450 300 350 – – 4.02 <1	<450 300 400 – – 3.04 <1	<450 300 400 – – 2.90 <1	<450 300 400 12500 15000 2.79 <1	<450 300 400 – – 2.74 <1	<450 300 300 12500 15000 0.76 <1	<450 300 400 – – 1.14 <1	<450 300 400 – – 3.03 <1	<450 300 400 – – 1.55 <1	<450 300 400 12500 15000 1.16 <1	<450 300 350 – – 1.28 <1	<450 300 350 – – 1.12 <1	<450 300 350 12500 15000 1.69 <1	<450 300 400 – – 1.22 <1	<450 300 550 – – 3.64 <1	<450 300 525 – – 4.34 <1	<450 300 650 12500 20000 3.36 <1	<450 300 450 – – 0.61 <1	<450 300 450 – – 0.88 <1
AT	<450 300 400 – – 1.37 <1	<450 300 450 12500 15000 2.11 <1	<450 300 550 – – 3.90 <1	<450 300 450 – – 1.88 <1	<450 300 400 – – 1.75 <1	<450 300 400 12500 15000 1.68 <1	<450 300 400 – – 2.37 <1	<450 300 325 12500 12500 1.49 <1	<450 300 325 – – 0.66 <1	<450 300 350 – – 2.30 <1	<450 300 325 – – 1.44 <1	<450 300 375 12500 15000 1.21 <1	<450 300 425 – – 1.12 <1	<450 300 400 – – 1.37 <1	<450 300 350 12500 15000 1.26 <1	<450 300 400 – – 1.50 <1	<450 300 425 – – 1.67 <1	<450 300 350 – – 1.26 <1	<450 300 550 12500 15000 3.32 <1	<450 300 400 – – 0.56 <1	<450 300 400 – – 1.05 <1
AS	<450 300 400 – – 1.91 <1	<450 300 550 – – 2.28 <1	<450 300 550 12500 15000 4.22 <1	<450 300 400 – – 1.88 <1	<450 300 400 – – 1.29 <1	<450 300 400 – – 1.08 <1	<450 300 400 12500 12500 1.62 <1	<450 300 350 – – 1.47 <1	<450 300 325 12500 12500 1.59 <1	<450 300 325 – – 1.79 <1	<450 300 325 – – 1.37 <1	<450 300 350 – – 1.53 <1	<450 300 400 12500 12500 1.46 <1	<450 300 375 – – 1.28 <1	<450 300 350 – – 1.26 <1	<450 300 425 12500 12500 1.53 <1	<450 300 450 – – 1.62 <1	<450 300 450 – – 1.34 <1	<450 300 550 – – 3.53 <1	<450 300 350 12500 12500 0.88 <1	<450 300 390 – – 1.47 <1

Sample Data

<450 – IM-247/PD Results [μC/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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
BL	<450 300 450 – – 1.43 <1	<450 300 400 12500 15000 0.93	<450 300 650 – – 3.39 <1	<450 300 400 – – 0.54	<450 300 425 – – 1.09 <1	<450 300 400 12500 15000 1.30 <1	<450 300 375 – – 1.24 <1	<450 300 425 12500 15000 1.14 <1	<450 300 450 – – 1.62 <1	<450 300 400 – – 1.19 <1	<450 300 400 – – 1.09 <1	<450 300 450 12500 15000 1.73 <1	<450 300 425 – – 1.54 <1	<450 300 400 – – 1.18 <1	<450 300 400 12500 12500 1.09 <1	<450 300 350 – – 0.94	<450 300 400 – – 1.01 <1	<450 300 400 – – 4.64 <1	<450 300 550 12500 15000 3.65 <1	<450 300 400 – – 1.97 <1	<450 300 300 – – 1.28 <1		
BK	<450 300 450 – – <0.35	<450 300 375 – – 0.70	<450 300 700 12500 20000 3.76 <1	<450 300 425 – – 1.05 <1	<450 300 400 – – 0.73 <1	<450 300 400 – – 1.00 <1	<450 300 450 12500 15000 0.74 <1	<450 300 400 – – 2.09 <1	<450 300 450 12500 12000 1.23 <1	<450 300 350 – – 1.77 <1	<450 300 300 – – 0.93 <1	<450 300 300 – – 1.49 <1	<450 300 350 12500 15000 1.48 <1	<450 300 350 – – 1.39 <1	<450 300 350 – – 1.39 <1	<450 300 400 12500 12500 0.90	<450 300 350 – – 1.56 <1	<450 300 450 – – 1.87 <1	<450 300 600 – – 3.29 <1	<450 300 400 12500 14000 1.74 <1		<450 300 400 – – 1.82 <1
BJ	<450 300 300 – – 0.91	<450 300 500 12500 15000 3.06 <1	<450 300 600 – – 2.92 <1	<450 300 450 – – 1.00 <1	<450 300 500 – – 1.01 <1	<450 300 400 12500 12000 1.02 <1	<450 300 400 – – 0.63	<450 300 300 12500 12500 0.88	<450 300 350 – – 0.37	<450 300 300 – – 0.61	<450 300 300 – – 1.25 <1	<450 300 400 12500 15000 0.89	<450 300 400 – – 0.77	<450 300 450 – – 0.93	<450 300 450 12500 12500 1.12 <1	<450 300 450 – – 0.82	<450 300 500 – – 0.86	<450 300 500 – – 2.87 <1	<450 300 500 12500 10000 1.10 <1	<450 300 450 – – 1.63 <1		<450 300 400 – – 1.36 <1
BI	<450 300 300 – – 1.08 <1	<450 300 375 12500 12500 1.01 <1	<450 300 550 – – 2.92 <1	<450 300 400 – – 1.11 <1	<450 300 400 – – 0.65	<450 300 400 12500 15000 1.67 <1	<450 300 550 – – 4.16 <1	<450 300 400 12500 12500 1.33 <1	<450 300 350 – – 1.28 <1	<450 300 350 – – 0.92	<450 300 300 – – 1.36 <1	<450 300 300 12500 15000 1.20 <1	<450 300 400 – – 1.82 <1	<450 300 450 – – 1.67 <1	<450 300 500 12500 15000 1.15 <1	<450 300 400 – – 1.76 <1	<450 300 350 – – 0.93 <1	<450 300 450 – – 1.05 <1	<450 300 400 12500 15000 1.68 <1	<450 300 425 – – 1.68 <1		<450 300 350 – – 2.30 <1
BH	<450 300 300 – – 0.60	<450 300 300 – – 1.13 <1	<450 300 400 12500 12500 1.10 <1	<450 300 400 – – 1.01 <1	<450 300 550 – – <0.33	<450 300 500 – – 1.09 <1	<450 300 300 12500 12500 0.78 <1	<450 300 300 – – 1.36 <1	<450 300 300 12500 15000 1.14 <1	<450 300 350 – – 0.96	<450 300 300 – – 1.03 <1	<450 300 400 – – 1.26 <1	<450 300 425 12500 15000 1.23 <1	<450 300 450 – – 0.82	<450 300 500 – – 1.98 <1	<450 300 300 12500 15000 0.90	<450 300 350 – – 0.48	<450 300 500 – – 0.83	<450 300 550 – – 3.81 <1	<450 300 425 12500 15000 2.34 <1		<450 300 350 – – 2.35 <1
BG	<450 300 300 – – 1.10 <1	<450 300 300 12500 15000 0.80	<450 300 550 – – 3.08 <1	<450 300 600 – – 1.25 <1	<450 300 550 – – 1.05 <1	<450 300 550 12500 15000 0.57 <1	<450 300 550 – – 1.83 <1	<450 300 550 12500 15000 1.42 <1	<450 300 400 – – 1.00 <1	<450 300 420 – – 1.07 <1	<450 300 400 – – 0.87 <1	<450 300 400 12500 15000 1.30 <1	<450 300 450 – – 1.15 <1	<450 300 450 – – 1.03 <1	<450 300 500 12500 15000 1.38 <1	<450 300 500 – – 0.51	<450 300 425 – – 1.20 <1	<450 300 425 – – 0.87	<450 300 500 12500 15000 0.76	<450 300 450 – – 1.76 <1		<450 300 400 – – 1.84 <1
BF	<450 300 250 – – 1.22 <1	<450 300 350 12500 12500 0.48	<450 300 775 – – 2.93 <1	<450 300 350 – – 0.60	<450 300 400 – – 1.17 <1	<450 300 350 12500 15000 1.52 <1	<450 300 350 – – 1.56 <1	<450 300 400 12500 15000 1.02 <1	<450 300 350 – – 1.14 <1	<450 300 350 – – 1.12 <1	<450 300 400 – – 0.81 <1	<450 300 350 12500 15000 1.13 <1	<450 300 400 – – 1.13 <1	<450 300 400 – – 0.58	<450 300 350 12500 15000 1.14 <1	<450 300 350 – – 1.28 <1	<450 300 350 – – 1.03 <1	<450 300 300 – – 1.16 <1	<450 300 650 12500 15000 2.93 <1	<450 300 300 – – 1.79 <1		<450 300 300 – – 1.68 <1
BE	<450 300 350 – – 1.07 <1	<450 300 350 – – 0.83	<450 300 450 12500 20000 3.76 <1	<450 300 450 – – 1.19 <1	<450 300 450 – – 3.46 <1	<450 300 450 – – 3.48 <1	<450 300 375 12500 15000 1.52 <1	<450 300 325 – – 1.30 <1	<450 300 275 12500 12500 2.39 <1	<450 300 300 – – 1.17 <1	<450 300 325 – – 1.02 <1	<450 300 325 – – 1.19 <1	<450 300 350 12500 15000 0.89	<450 300 325 – – 1.42 <1	<450 300 300 – – 1.00 <1	<450 300 350 12500 12500 0.97	<450 300 350 – – 0.86	<450 300 450 – – 3.73 <1	<450 300 600 – – 2.77 <1	<450 300 300 12500 12500 0.84		<450 300 250 – – 2.37 <1
BD	<450 300 300 – – 1.39 <1	<450 300 350 12500 15000 0.61	<450 300 600 – – 2.29 <1	<450 300 350 – – 3.02 <1	<450 300 300 – – 1.10 <1	<450 300 350 12500 15000 1.62 <1	<450 300 300 – – 1.05 <1	<450 300 350 12500 15000 1.15 <1	<450 300 350 – – 0.97	<450 300 400 – – 0.68	<450 300 350 – – 1.48 <1	<450 300 325 12500 15000 0.99	<450 300 325 – – 0.89	<450 300 350 – – 1.73 <1	<450 300 400 12500 15000 1.79 <1	<450 300 600 – – 1.44 <1	<450 300 600 – – 1.52 <1	<450 300 600 – – 1.12 <1	<450 300 700 12500 17500 2.98 <1	<450 300 600 – – 2.39 <1		<450 300 450 – – 1.95 <1
BC	<450 300 300 – – 1.51 <1	<450 300 300 12500 12500 0.84	<450 300 700 – – 3.5' <1	<450 300 525 – – 3.84 <1	<450 300 500 – – 2.93 <1	<450 300 500 12500 17500 3.77 <1	<450 300 500 – – 4.22 <1	<450 300 450 12500 17500 0.92	<450 300 450 – – 0.81	<450 300 450 – – 0.88	<450 300 400 – – 0.92	<450 300 450 12500 15000 1.30 <1	<450 300 450 – – 1.13 <1	<450 300 450 – – 1.61 <1	<450 300 425 12500 15000 1.12 <1	<450 300 450 – – 1.34 <1	<450 300 550 – – 4.29 <1	<450 300 550 – – 0.85	<450 300 600 12500 20000 3.25 <1	<450 300 500 – – 1.45 <1		<450 300 350 – – 1.42 <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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

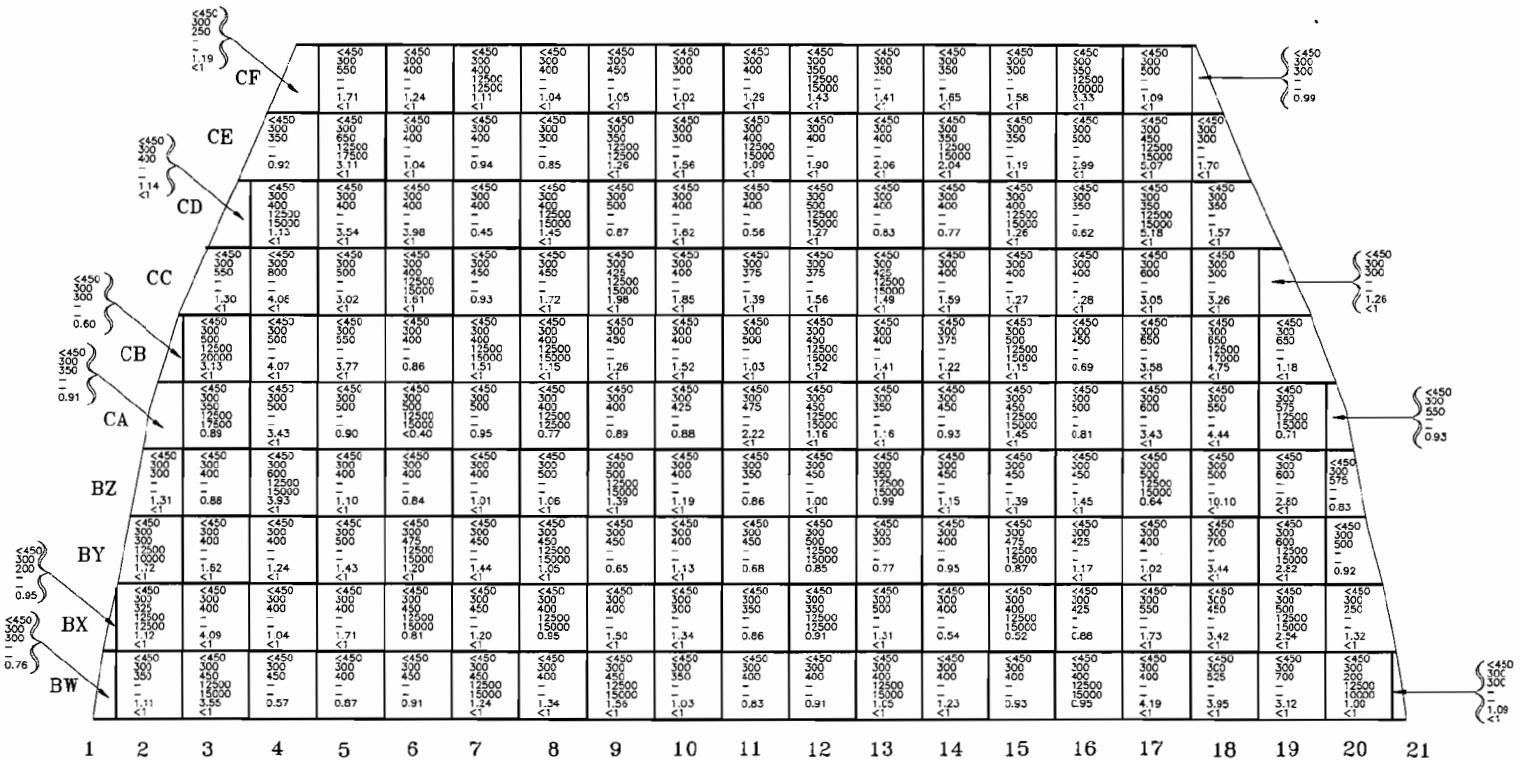
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
BV	<450 300 300 – – 0.81	<450 300 400 12500 15000 0.57	<450 300 475 – – 4.44 <1	<450 300 350 – – 1.10 <1	<450 300 350 – – 0.82	<450 300 400 12500 15000 1.64 <1	<450 300 400 – – 1.48 <1	<450 300 400 12500 12500 0.86	<450 300 400 – – 0.91	<450 300 400 – – 1.11 <1	<450 300 400 – – 1.24 <1	<450 300 400 12500 12500 1.12 <1	<450 300 300 – – 0.99	<450 300 300 – – 1.18 <1	<450 300 350 12500 15000 1.02 <1	<450 300 400 – – 0.85	<450 300 400 – – 1.31 <1	<450 300 550 – – 2.95 <1	<450 300 650 12500 15000 3.84 <1	<450 300 200 – – 1.07 <1	<450 300 300 – – 0.45
BU	<450 300 300 – – 1.08 <1	<450 300 350 12500 12500 0.84	<450 300 625 – – 1.38 <1	<450 300 300 – – 0.77	<450 300 350 – – 0.84	<450 300 350 12500 12500 1.25 <1	<450 300 375 – – 1.00 <1	<450 300 400 12500 15000 0.94	<450 300 400 – – 1.04 <1	<450 300 400 – – 1.03 <1	<450 300 400 – – 0.91	<450 300 400 12500 15000 0.98	<450 300 400 – – 2.49 <1	<450 300 400 – – 0.55	<450 300 400 12500 15000 0.87	<450 300 400 – – 0.70	<450 300 400 – – 1.23 <1	<450 300 500 – – 4.12 <1	<450 300 450 12500 15000 3.61 <1	<450 300 350 – – 1.21 <1	<450 300 250 – – 1.29 <1
BT	<450 300 300 – – 0.97	<450 300 350 – – 1.09 <1	<450 300 700 12500 20000 2.91 <1	<450 300 400 – – 1.15 <1	<450 300 400 – – 0.76	<450 300 425 – – 0.75	<450 300 400 12500 15000 0.95	<450 300 400 – – 1.48 <1	<450 300 500 12500 15000 1.65 <1	<450 300 475 – – 0.95	<450 300 450 – – 0.92	<450 300 500 – – 0.98	<450 300 425 12500 15000 0.92	<450 300 500 – – 1.10 <1	<450 300 450 – – 0.78	<450 300 400 12500 15000 1.30 <1	<450 300 350 – – 1.26 <1	<450 300 350 – – 3.95 <1	<450 300 650 – – 3.53 <1	<450 300 350 12500 15000 1.00 <1	<450 300 250 – – 0.78
BS	<450 300 300 – – 1.09 <1	<450 300 350 12500 12500 1.08 <1	<450 300 675 – – 4.20 <1	<450 300 400 – – 0.59	<450 300 300 – – 1.31 <1	<450 300 300 12500 12500 1.03 <1	<450 300 350 – – 1.02 <1	<450 300 450 12500 15000 1.83 <1	<450 300 450 – – 2.21 <1	<450 300 425 – – 1.94 <1	<450 300 400 – – 1.03 <1	<450 300 425 12500 15000 1.12 <1	<450 300 425 – – 1.13 <1	<450 300 450 – – 1.42 <1	<450 300 500 12500 15000 1.83 <1	<450 300 500 – – 0.55	<450 300 450 – – 0.98	<450 300 500 – – 3.39 <1	<450 300 250 12500 8250 4.09 <1	<450 300 400 – – 1.49 <1	<450 300 550 – – 1.13 <1
BR	<450 300 350 – – 2.96 <1	<450 300 350 12500 15000 5.10 <1	<450 300 350 – – 1.70 <1	<450 300 475 – – 0.74	<450 300 400 – – 1.21 <1	<450 300 400 12500 17500 1.02 <1	<450 300 400 – – 0.89	<450 300 400 12500 15000 0.87	<450 300 450 – – 0.87	<450 300 500 – – 1.36 <1	<450 300 450 – – 1.09 <1	<450 300 450 12500 16000 1.31 <1	<450 300 400 – – 1.21 <1	<450 300 400 – – 1.04 <1	<450 300 350 12500 15000 1.06 <1	<450 300 400 – – 1.63 <1	<450 300 400 – – 1.50 <1	<450 300 450 – – 2.87 <1	<450 300 500 12500 15000 4.58 <1	<450 300 425 – – 1.41 <1	<450 300 300 – – 0.92
BQ	<450 300 300 – – 1.08 <1	<450 300 350 – – 1.38 <1	<450 300 625 12500 17500 3.68 <1	<450 300 350 – – 0.75	<450 300 400 – – 0.86	<450 300 350 – – 1.03 <1	<450 300 400 12500 12500 1.42 <1	<450 300 400 – – 1.32 <1	<450 300 400 12500 12500 1.48 <1	<450 300 400 – – 0.87	<450 300 450 – – 1.04 <1	<450 300 475 – – 1.16 <1	<450 300 450 12500 15000 0.51	<450 300 350 – – 0.89	<450 300 350 – – 0.73	<450 300 350 12500 15000 0.72	<450 300 350 – – 0.94	<450 300 450 – – 3.06 <1	<450 300 500 – – 3.55 <1	<450 300 300 12500 10000 0.93	<450 300 350 – – 0.86
BP	<450 300 300 – – 1.09 <1	<450 300 350 17500 15000 1.64 <1	<450 300 650 – – 3.87 <1	<450 300 300 – – 1.21 <1	<450 300 350 – – 0.68	<450 300 350 12500 15000 1.23 <1	<450 300 350 – – 0.83	<450 300 400 12500 15000 1.24 <1	<450 300 350 – – 0.81	<450 300 400 – – 0.94	<450 300 350 – – 0.81	<450 300 450 12500 15000 0.89	<450 300 400 – – 0.73	<450 300 400 – – 1.11 <1	<450 300 400 12500 15000 1.15 <1	<450 300 400 – – 1.04 <1	<450 300 400 – – 0.91 <1	<450 300 550 – – 3.81 <1	<450 300 600 12500 15000 2.93 <1	<450 300 300 – – 1.39 <1	<450 300 350 – – 1.24 <1
BO	<450 300 250 – – 1.46 <1	<450 300 300 12500 15000 0.96	<450 300 650 – – 3.52 <1	<450 300 400 – – 0.86	<450 300 300 – – 0.91	<450 300 300 12500 15000 1.17 <1	<450 300 350 – – 0.67	<450 300 400 12500 12500 1.05 <1	<450 300 375 – – 0.96	<450 300 350 – – 0.78	<450 300 350 – – 1.10 <1	<450 300 400 12500 15000 1.02 <1	<450 300 400 – – 1.30 <1	<450 300 400 – – 1.09 <1	<450 300 400 12500 15000 1.32 <1	<450 300 375 – – 1.28 <1	<450 300 375 – – 2.12 <1	<450 300 525 – – 3.66 <1	<450 300 600 12500 17500 2.99 <1	<450 300 300 – – 0.62	<450 300 300 – – 0.51
BN	<450 300 450 – – 1.19 <1	<450 300 450 – – 1.25 <1	<450 300 600 12500 25000 3.81 <1	<450 300 450 – – 0.97	<450 300 400 – – 1.28 <1	<450 300 350 – – 1.01 <1	<450 300 450 12500 15000 1.30 <1	<450 300 400 – – 1.35 <1	<450 300 450 12500 15000 0.72	<450 300 450 – – 0.80	<450 300 300 – – 0.90	<450 300 350 – – 0.45	<450 300 350 12500 15000 1.25 <1	<450 300 400 – – 1.09 <1	<450 300 350 – – 0.99	<450 300 450 12500 15000 1.04 <1	<450 300 400 – – 1.41 <1	<450 300 500 – – 2.99 <1	<450 300 450 – – 2.71 <1	<450 300 250 12500 8000 1.04 <1	<450 300 350 – – 1.25 <1
BM	<450 300 400 – – 0.68	<450 300 300 12500 12500 0.82	<450 300 650 – – 3.14 <1	<450 300 300 – – 1.34 <1	<450 300 400 – – 0.80	<450 300 350 12500 12500 1.12 <1	<450 300 300 – – 0.66	<450 300 350 12500 12500 0.65	<450 300 400 – – 0.67	<450 300 475 – – 1.03 <1	<450 300 450 – – 2.20 <1	<450 300 550 12500 15000 1.64 <1	<450 300 500 – – 1.25 <1	<450 300 400 – – 0.99	<450 300 550 12500 15000 1.25 <1	<450 300 550 – – 1.71 <1	<450 300 475 – – 1.38 <1	<450 300 575 – – 3.68 <1	<450 300 650 12500 17500 4.00 <1	<450 300 400 – – 1.44 <1	<450 300 350 – – 1.67 <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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

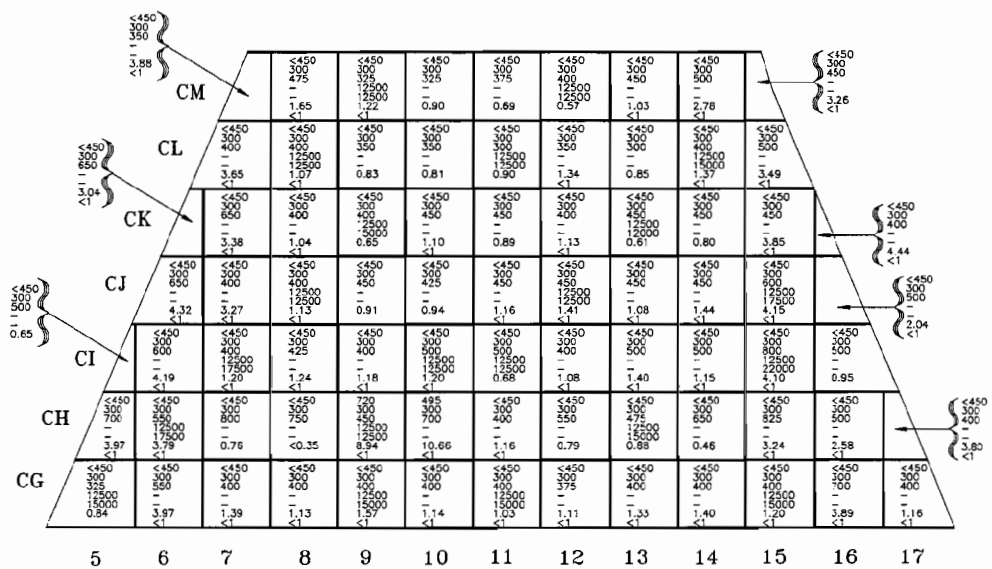


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)



Notes:

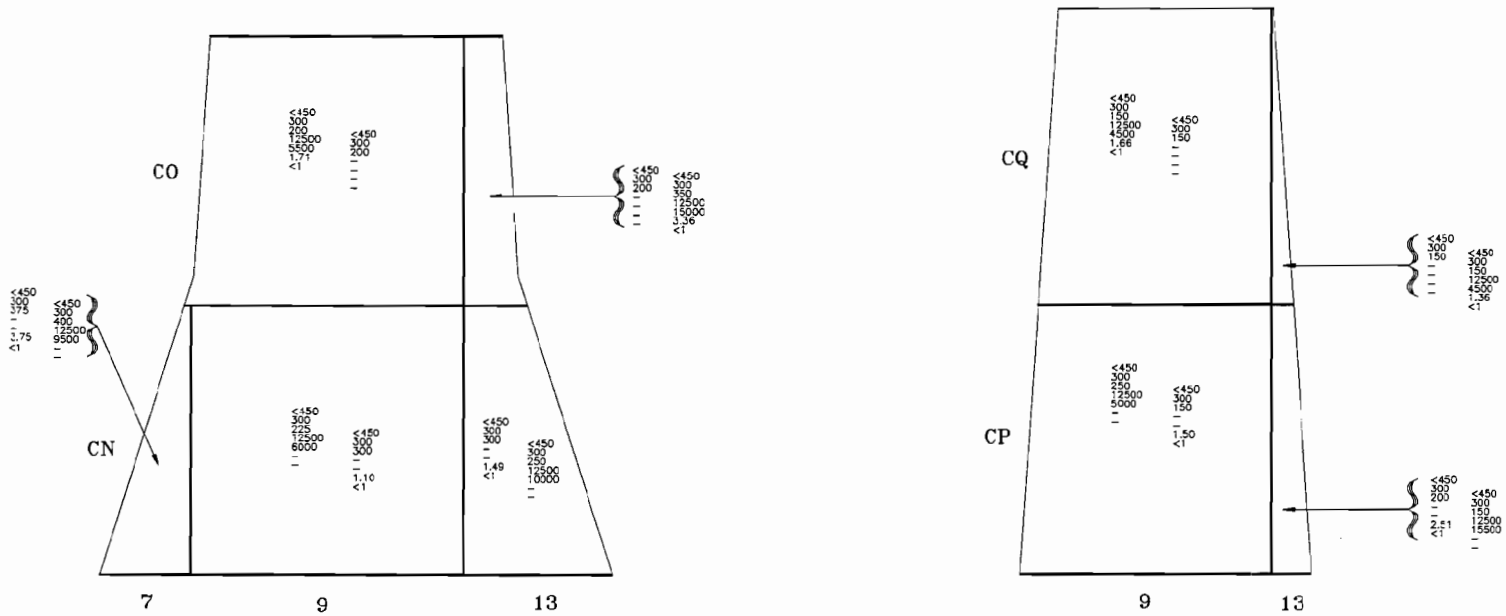
(1) Areas surveyed with an IM-247/PD, indicating detectable activity greater than or equal to 450μμCi/20cm² were sampled and analyzed by spectral analysis. In these cases, analysis of the spectrum indicated only photopeaks of naturally occurring isotopes not associated with the Naval Nuclear Propulsion Program. These natural isotopes include K-40, Ra-226, Pb-212, Bi-214, Be-7, Tl-208 and Ac-228.

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]

1. Dry Dock 1

e. Localized Grid Maps (Floor)

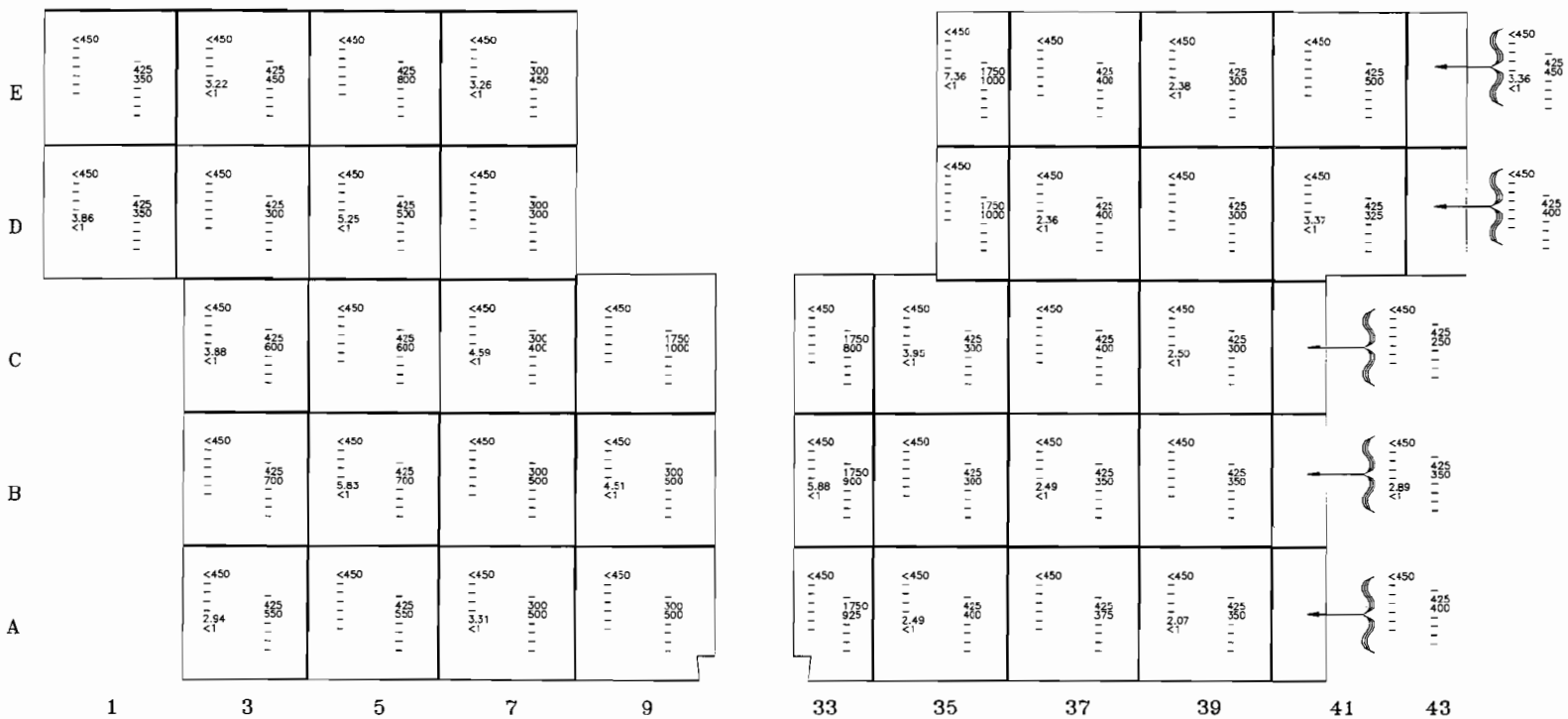


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

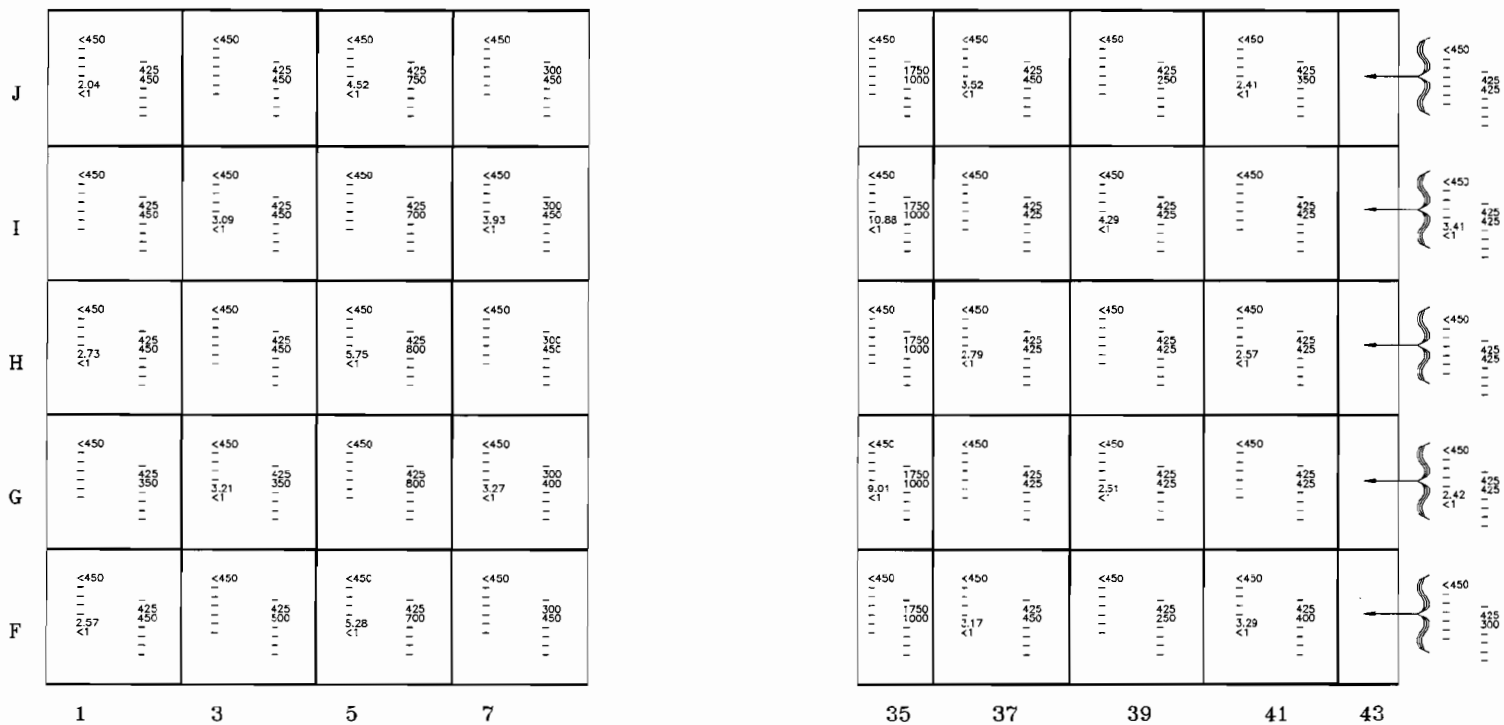


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

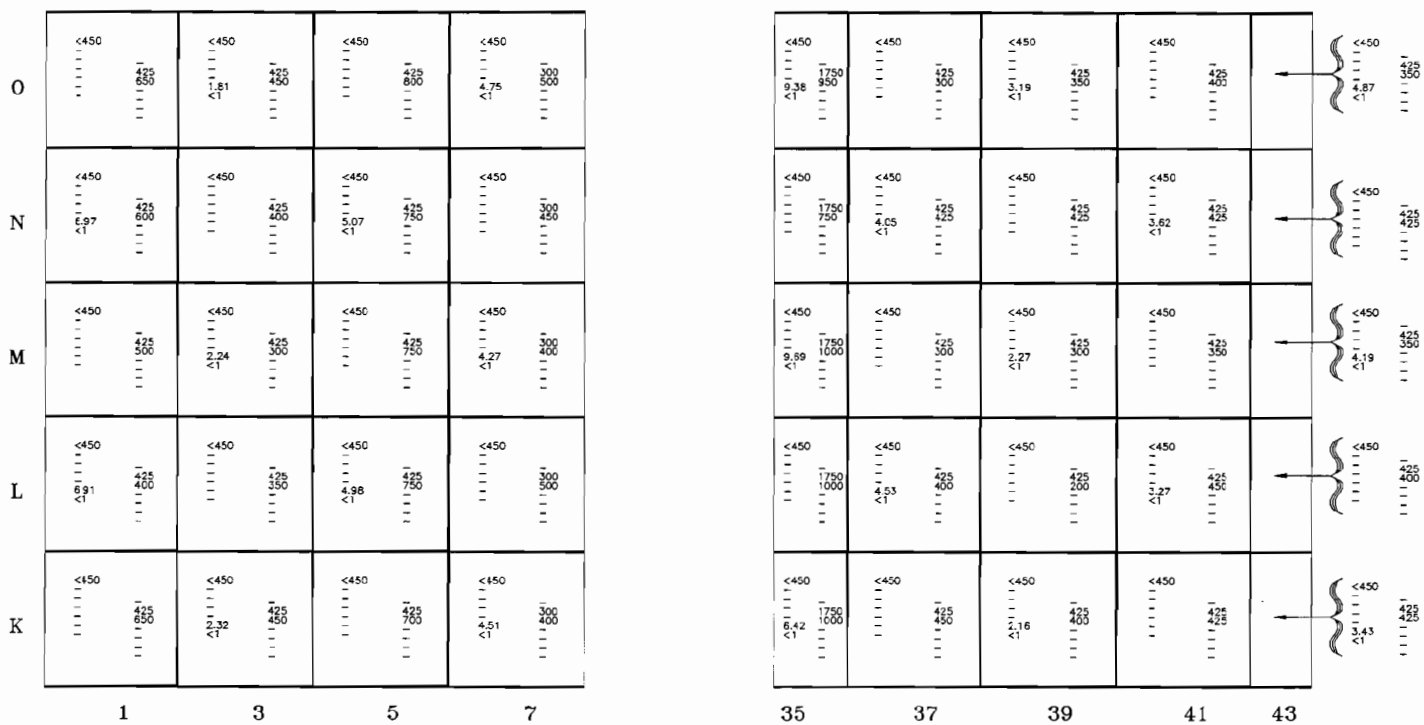


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

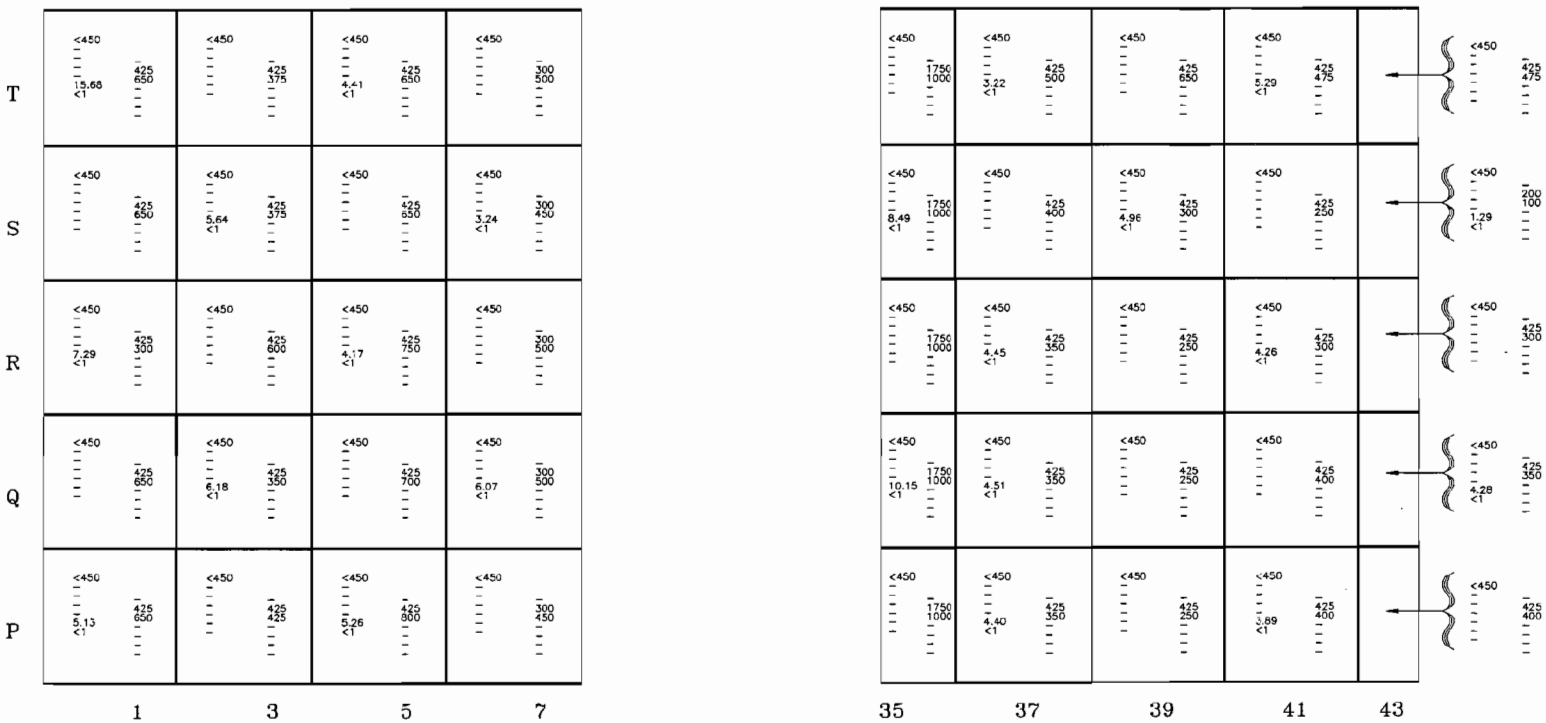


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

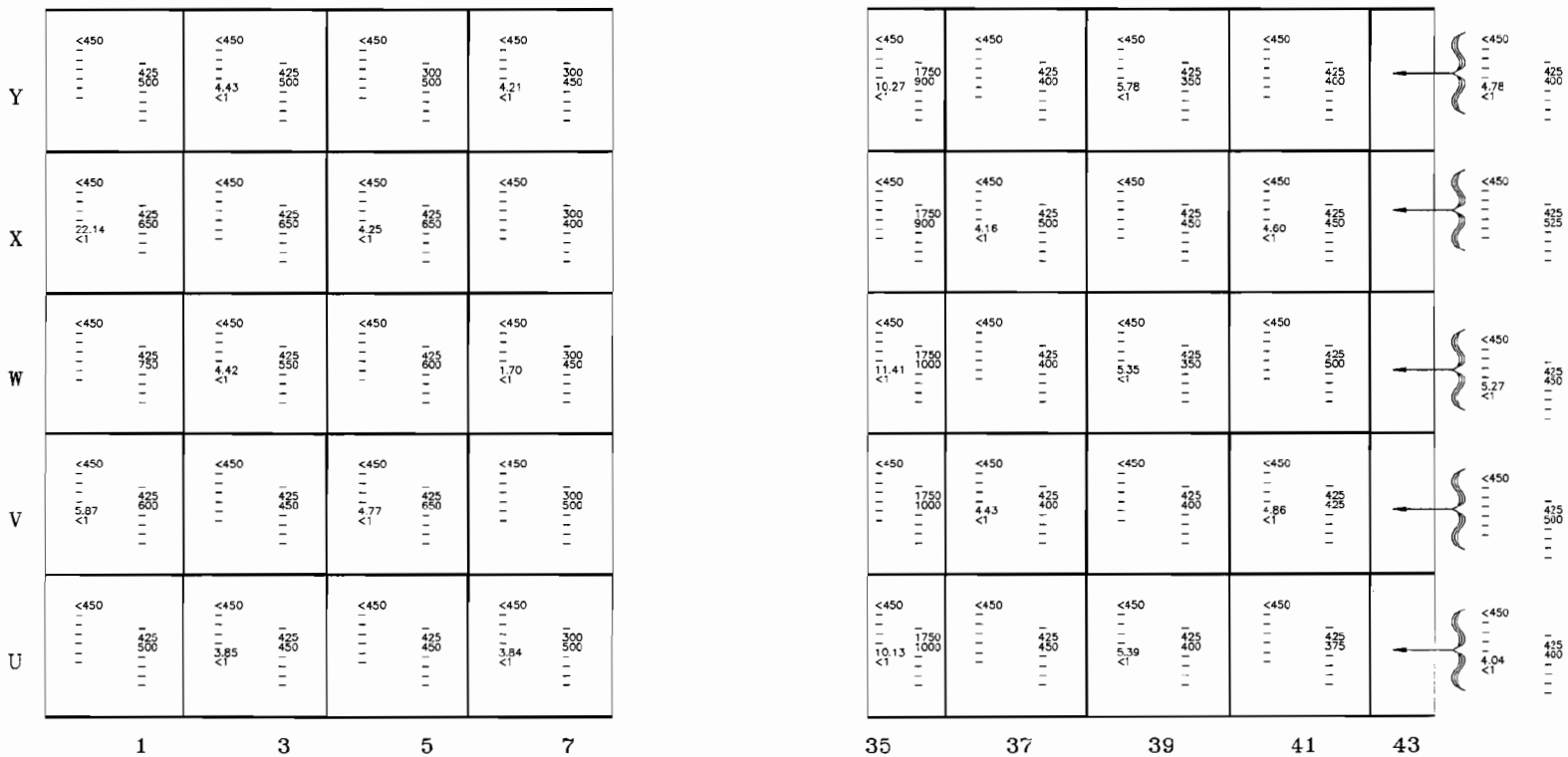


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

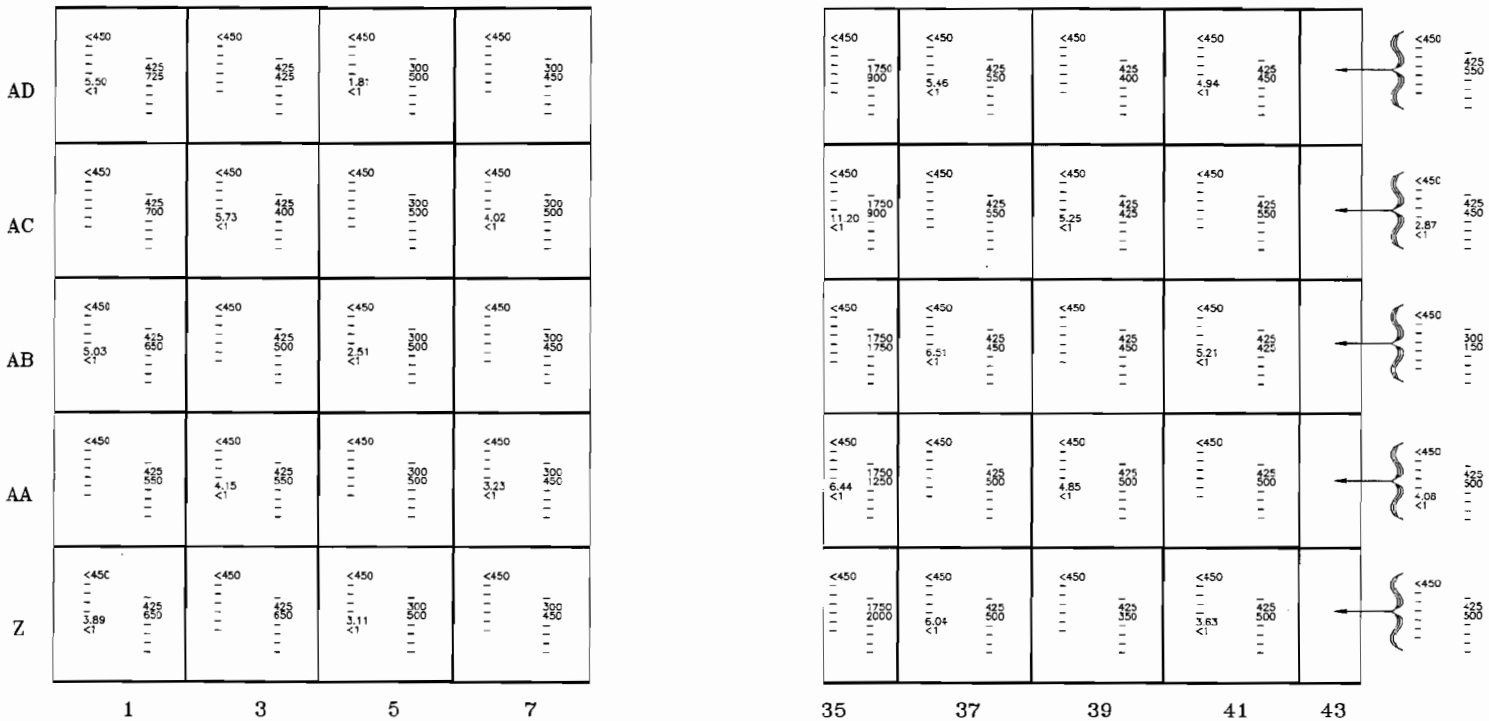


Sample Data

<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]

1. Dry Dock 1

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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

	1	3	5	6	7	8
AI	<450 – – – – – – – 425 650 – – – –	<450 – – – – – 4.39 <1 – 425 550 – – – –				
AH	<450 – – – – – 6.40 <1 – 425 650 – – – –	<450 – – – – – – – – 425 650 – – – –				
AG	<450 – – – – – – – – 425 725 – – – –	<450 – – – – – 5.56 <1 – 425 550 – – – –				
AF	<450 – – – – – – – 4.57 <1 – 425 650 – – – –	<450 – – – – – – – – 425 650 – – – –	<450 – – – – – – – 4.37 <1 – 300 450 – – – –		<450 – – – – – – – – 300 400 – – – –	
AE	<450 – – – – – – – – 425 650 – – – –	<450 – – – – – 5.65 <1 – 425 650 – – – –	<450 – – – – – – – – 300 500 – – – –		<450 – – – – – – – 4.88 <1 – 300 350 – – – –	

	5	6	7	8
CP	<450 300 300 10000 8500 3.82 <1	<450 300 400 – – 3.72 <1	<450 300 450 – – 4.27 <1	<450 1750 800 – – 9.57 <1
CO	<450 300 300 10000 8500 2.11 <1	<450 425 425 – – 4.48 <1	<450 300 500 – – 3.86 <1	<450 1750 900 – – 8.92 <1
CN	<450 300 325 – – 2.44 <1	<450 425 425 12500 15000 4.68 <1	<450 300 500 – – 3.73 <1	<450 1750 700 – – 10.40 <1
CM	<450 300 325 – – 3.00 <1	<450 300 400 – – 4.07 <1	<450 300 500 12500 15000 4.28 <1	<450 1750 700 – – 9.89 <1
CL	<450 425 250 – – 3.31 <1	<450 425 425 – – 4.16 <1	<450 300 500 – – 4.32 <1	<450 1750 850 37500 25000 9.45 <1
CK	<450 425 225 10000 8500 4.27 <1	<450 425 425 – – 4.04 <1	<450 300 500 – – 3.32 <1	<450 1750 800 – – 10.15 <1

Note: This block overlays hatched area.

Sample Data

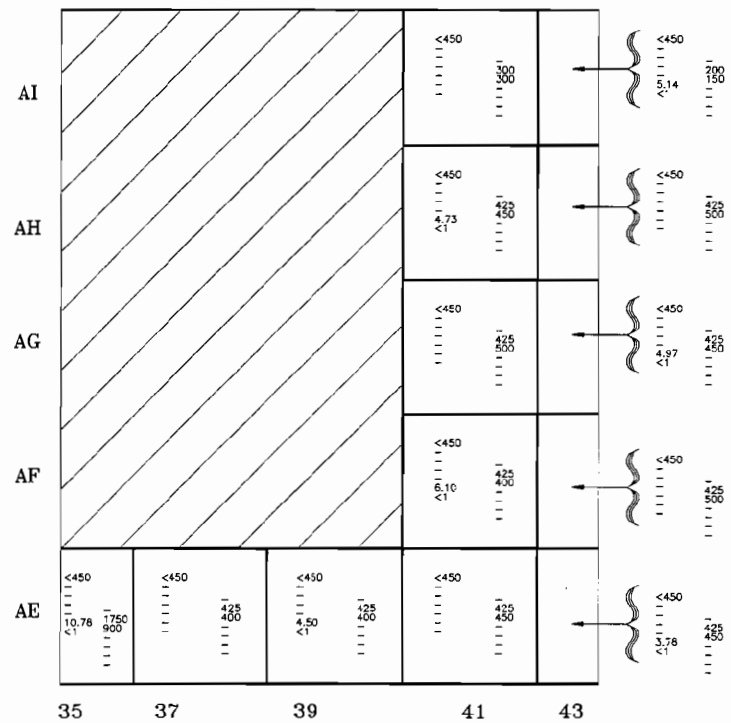
<450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

	36	37	38	39	40
CP	<450 1750 1230 – – 8.50 <1	<450 425 500 10000 15000 5.49 <1	<450 425 500 – – 5.35 <1	<450 425 550 – – 6.25 <1	<450 425 400 – – 5.73 <1
CO	<450 1750 900 – – 8.65 <1	<450 425 600 – – 7.39 <1	<450 425 400 – – 7.55 <1	<450 425 600 10000 15000 5.13 <1	<450 425 650 – – 5.49 <1
CN	<450 1750 850 – – 10.55 <1	<450 425 450 – – 7.69 <1	<450 425 500 10000 15000 4.99 <1	<450 425 500 – – 4.80 <1	<450 425 450 – – 5.09 <1
CM	<450 1750 1000 37500 20000 10.79 <1	<450 425 450 – – 5.55 <1	<450 425 450 – – 4.47 <1	<450 425 425 – – 5.30 <1	<450 425 450 10000 10000 3.43 <1
CL	<450 1750 850 – – 11.84 <1	<450 425 475 10000 15000 8.31 <1	<450 425 450 – – 4.54 <1	<450 425 475 – – 5.32 <1	<450 425 450 – – 4.16 <1
CK	<450 1750 900 – – 11.79 <1	<450 425 500 – – 7.11 <1	<450 425 500 – – 5.11 <1	<450 425 500 10000 17500 5.18 <1	<450 425 500 – – 4.05 <1
CJ	<450 1750 1250 – – 8.97 <1	<450 425 650 – – 6.97 <1	<450 425 550 10000 15000 5.41 <1	<450 425 600 – – 5.90 <1	<450 425 650 – – 3.86 <1
CI	<450 1750 900 37500 25000 10.92 <1	<450 425 500 – – 6.24 <1	<450 425 450 – – 6.58 <1	<450 425 450 – – 5.83 <1	<450 425 500 10000 12500 2.64 <1

Note: This block overlays hatched 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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

	1	3
AN	<450 – – – – 5.42 <1 – 425 500 – – –	<450 – – – – – 425 500 – – – –
AM	<450 – – – – – 425 550 – – – –	<450 – – – – 5.70 – 425 550 – – –
AL	<450 – – – – 3.59 <1 – 425 500 – – –	<450 – – – – – 425 500 – – – –
AK	<450 – – – – – 425 700 – – – –	<450 – – – – 3.21 – 425 550 – – –
AJ	<450 – – – – 5.03 <1 – 425 600 – – –	<450 – – – – – 425 600 – – – –

Note: This block overlays hatched area.

	5	6	7	8
CZ	<450 300 400 – – 4.86 <1	<450 300 450 12500 10000 4.20 <1	<450 300 500 – – 4.41 <1	<450 1750 850 – – 7.89 <1
CY	<450 425 425 – – 3.81 <1	<450 300 550 – – 3.38 <1	<450 300 450 – – 4.04 <1	<450 1750 1500 37500 25000 10.31 <1
CX	<450 300 150 12500 15000 4.06 <1	<450 300 425 – – 4.65 <1	<450 300 450 – – 3.80 <1	<450 1750 900 – – 8.89 <1
CW	<450 300 450 – – 2.98 <1	<450 425 450 10000 12500 4.16 <1	<450 300 500 – – 6.82 <1	<450 1750 1000 – – 10.34 <1
CV	<450 300 400 – – 3.25 <1	<450 300 425 – – 3.50 <1	<450 300 450 – – 3.85 <1	<450 1750 850 37500 22500 9.01 <1
CU	<450 300 425 12500 12500 3.47 <1	<450 425 425 – – 1.45 <1	<450 425 425 – – 5.57 <1	<450 1750 850 – – 10.61 <1
CT	<450 300 300 – – 2.14 <1	<450 425 450 12500 16000 3.75 <1	<450 300 450 – – 2.28 <1	<450 1750 1500 – – 10.76 <1
CS	<450 300 150 – – 2.74 <1	<450 425 450 – – 2.84 <1	<450 300 450 – – 3.63 <1	<450 1750 1250 37500 22500 9.61 <1
CR	<450 300 325 – – 4.01 <1	<450 425 400 – – 3.91 <1	<450 300 450 12500 15000 2.56 <1	<450 1750 900 – – 9.75 <1
CQ	<450 300 300 – – 2.99 <1	<450 425 300 10000 9500 3.75 <1	<450 300 450 – – 3.31 <1	<450 1750 800 – – 9.75 <1

Sample Data

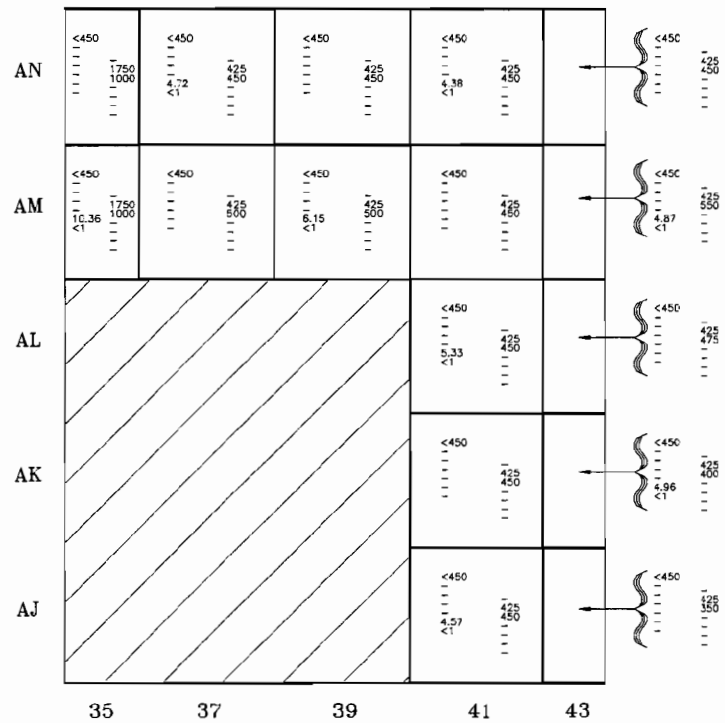
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

Note: This block overlays hatched area.

	36	37	38	39	40
CV	<450 1750 1000 12500 25000 9.04 <1	<450 425 550 – – 6.30 <1	<450 425 500 – – 6.12 <1	<450 425 450 – – 5.41 <1	<450 425 450 10000 12500 6.49 <1
CU	<450 1750 850 – – 10.58 <1	<450 425 425 – – 7.02 <1	<450 425 400 10000 10000 7.09 <1	<450 425 450 – – 6.70 <1	<450 425 550 – – 3.36 <1
CT	<450 1750 625 37500 25000 9.23 <1	<450 425 450 – – 6.36 <1	<450 425 500 – – 4.57 <1	<450 425 500 – – 6.46 <1	<450 425 550 – – 4.86 <1
CS	<450 1750 600 – – 11.59 <1	<450 425 550 – – 3.99 <1	<450 425 550 – – 4.80 <1	<450 425 550 – – 3.89 <1	<450 425 600 10000 15000 6.33 <1
CR	<450 1750 700 – – 9.62 <1	<450 425 375 – – 5.61 <1	<450 425 425 10000 12500 4.66 <1	<450 425 375 – – 4.89 <1	<450 425 400 – – 3.90 <1
CQ	<450 1750 850 37500 20500 11.68 <1	<450 425 525 – – 5.88 <1	<450 425 500 – – 4.25 <1	<450 425 500 – – 5.37 <1	<450 425 550 10000 12500 4.52 <1

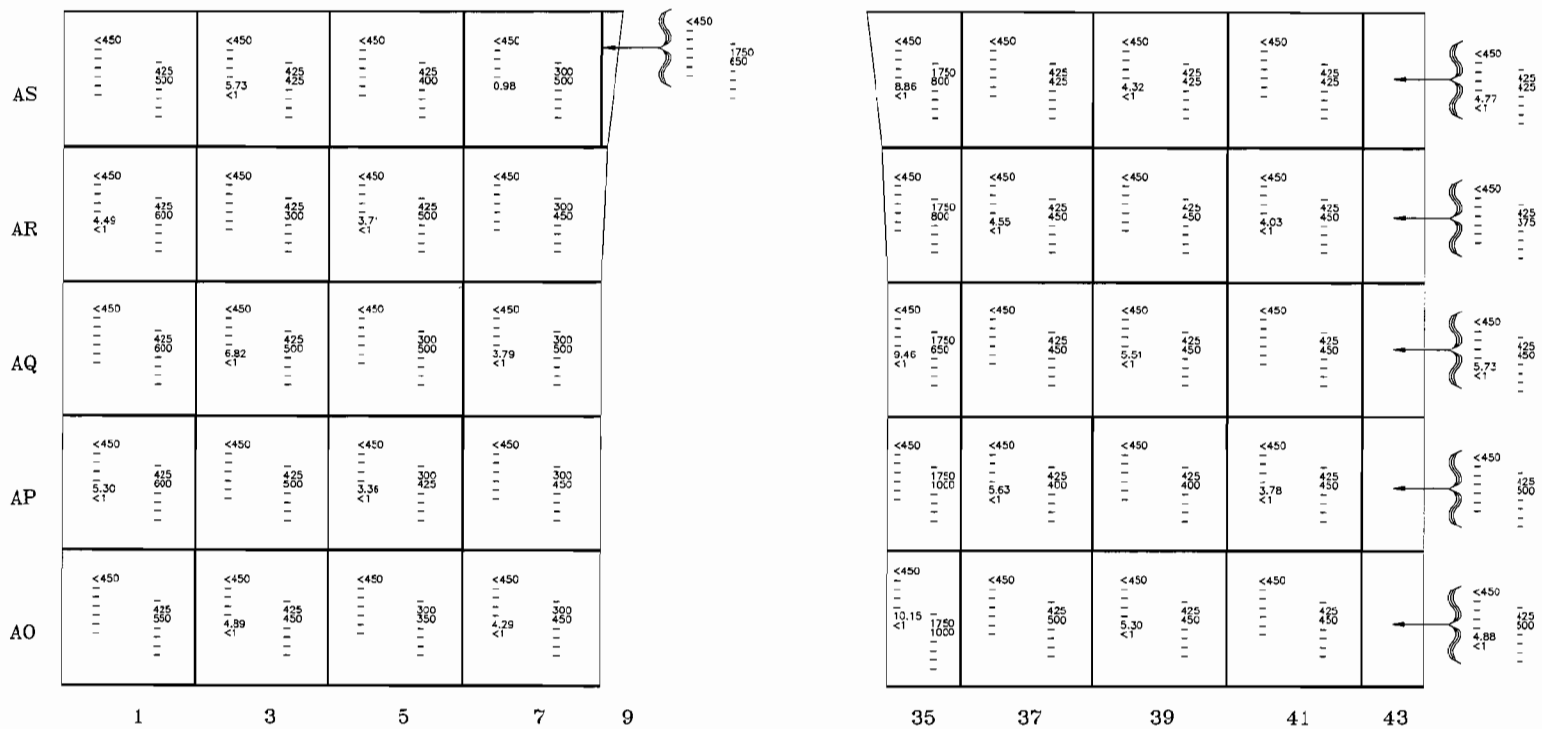


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

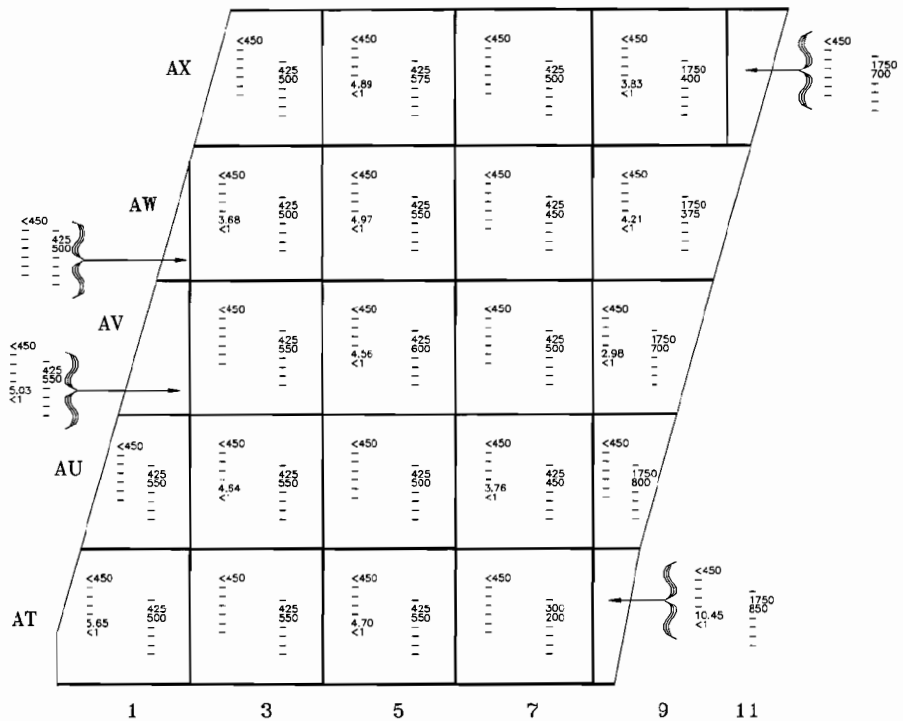


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

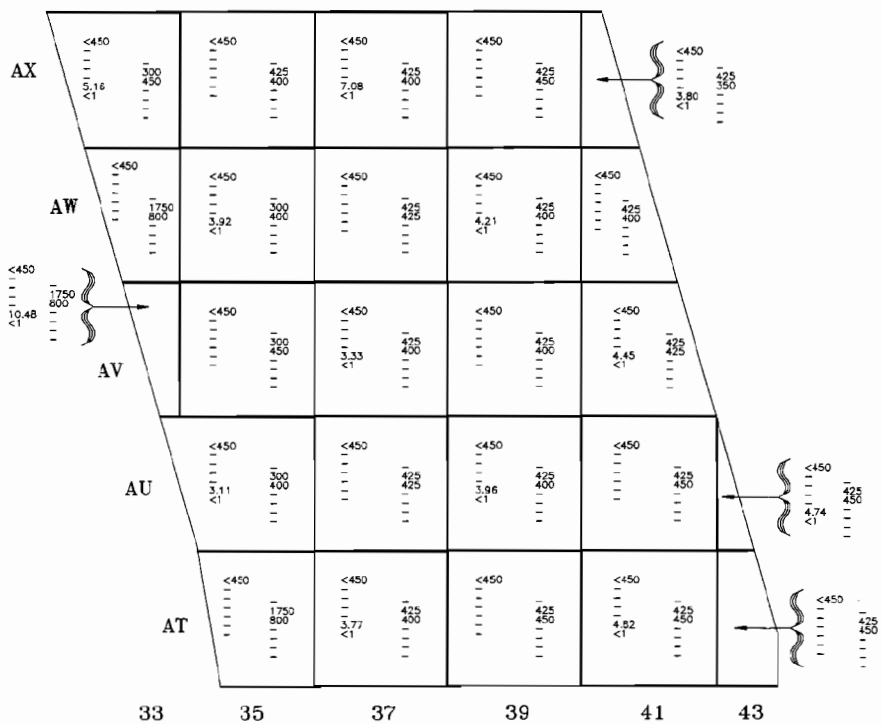


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

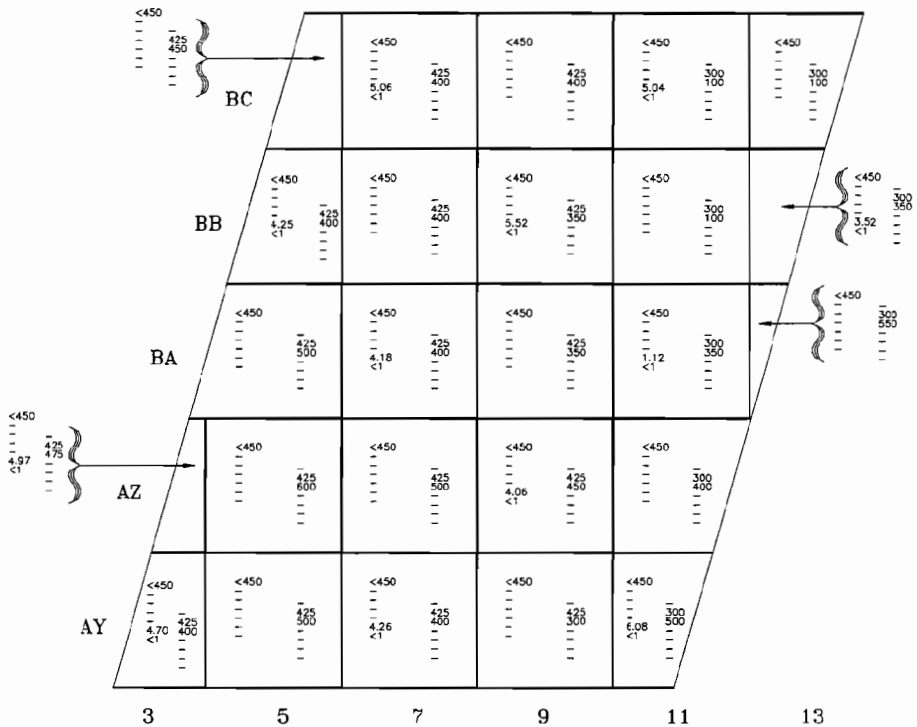


Sample Data

<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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

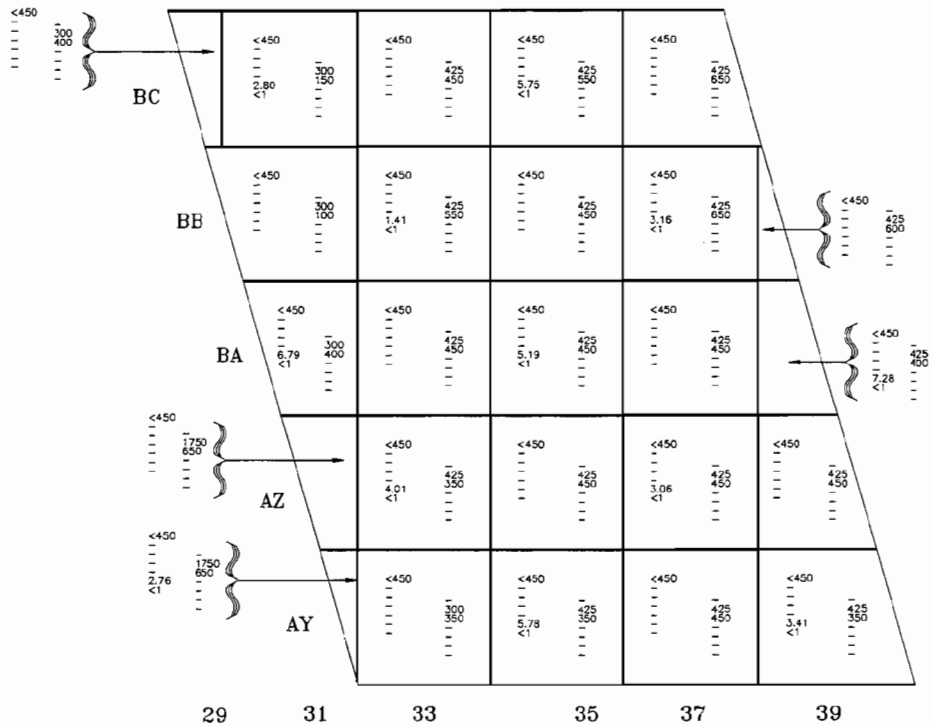


Sample Data

<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]

1. Dry Dock 1

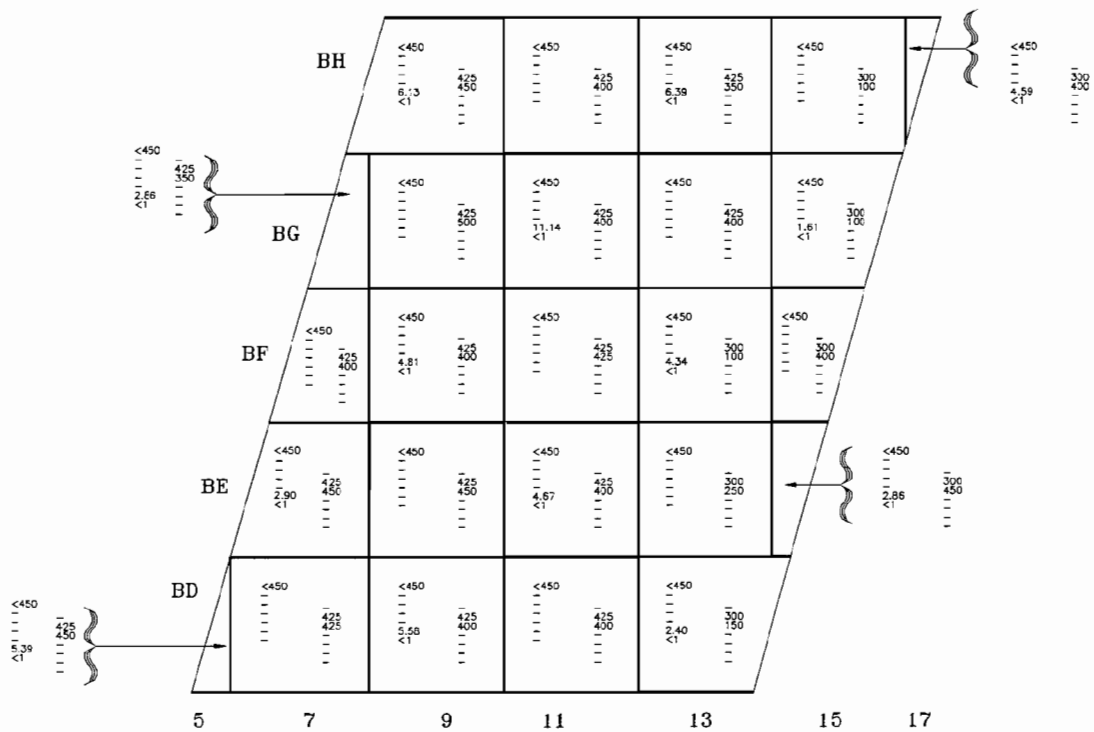
e. Localized Grid Maps (Adjacent Area)



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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



Sample Data

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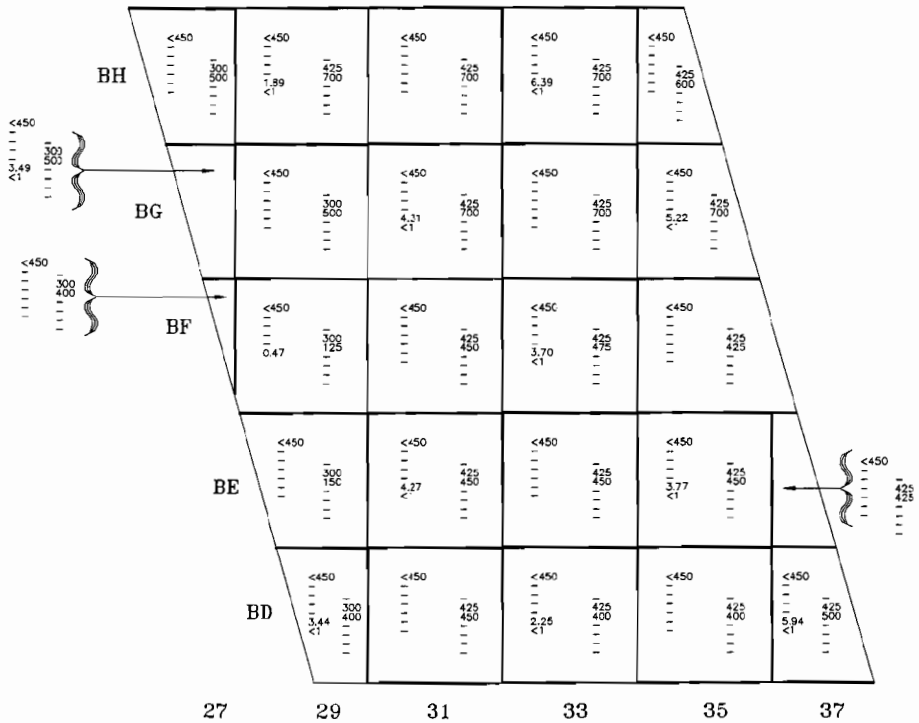
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



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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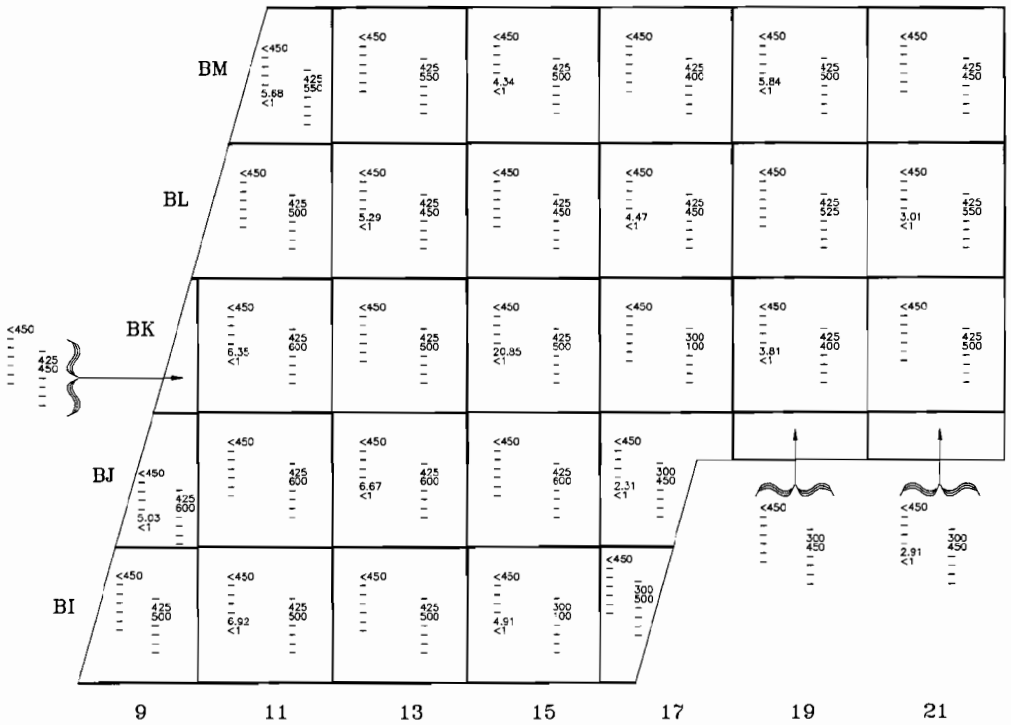
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



Sample Data

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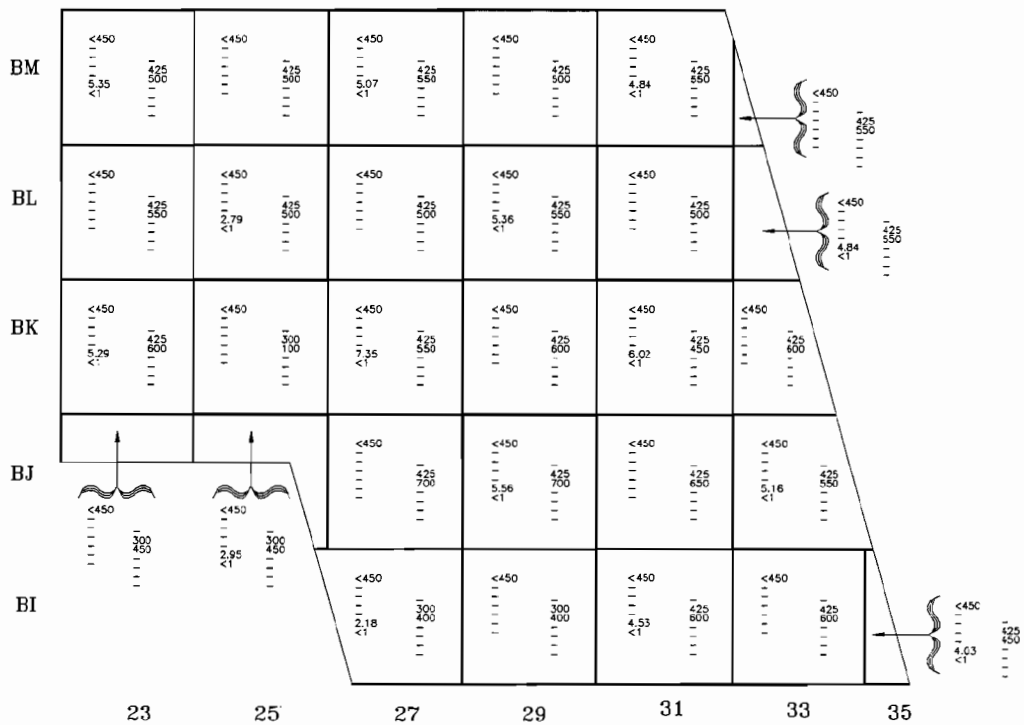
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



Sample Data

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200 – IM-253/PD (HV-1 PHA) [bkg.]
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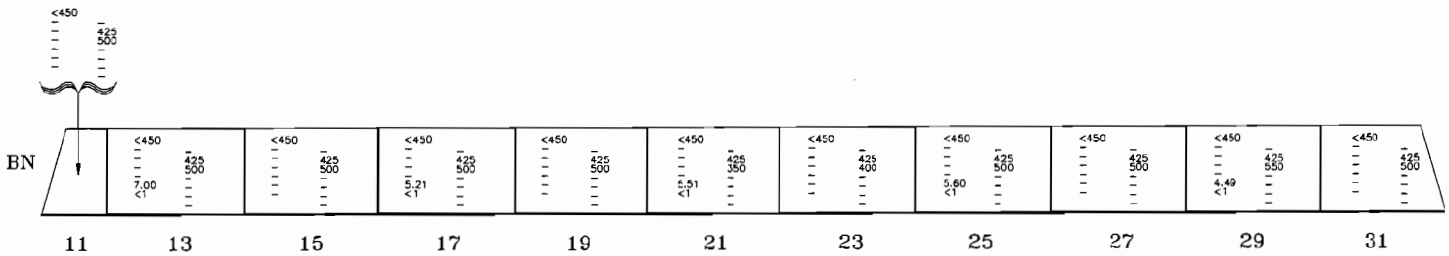
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



Sample Data

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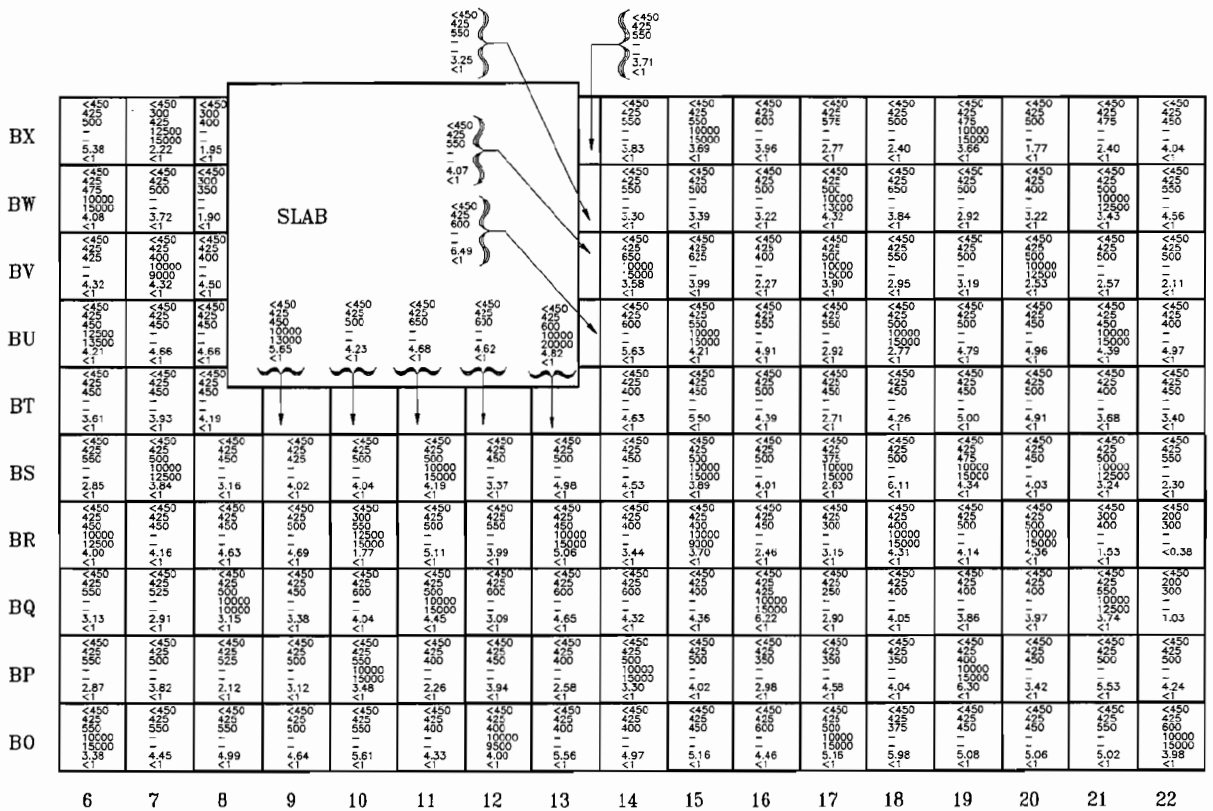
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



Sample Data

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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]

1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)

	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
BX	<450 425 450 10000 15000 2.07 <1	<450 425 500 – – 4.27 <1	<450 425 500 – – 4.50 <1	<450 425 500 – – 4.24 <1	<450 425 450 – – 4.38 <1	<450 425 450 10000 12500 3.37 <1	<450 425 450 – – 3.78 <1	<450 425 450 – – 4.17 <1	<450 425 500 – – 3.70 <1	<450 425 500 – – 3.82 <1	<450 425 500 10000 12500 4.24 <1	<450 425 500 – – 4.08 <1					
BW	<450 425 500 – – 4.54 <1	<450 425 500 – – 3.60 <1	<450 425 400 10000 12500 5.18 <1	<450 425 400 – – 4.13 <1	<450 425 400 10000 12500 4.28 <1	<450 425 400 – – 3.35 <1	<450 425 400 – – 5.51 <1	<450 425 450 10000 12500 4.02 <1	<450 425 425 10000 12500 4.15 <1	<450 425 450 – – 3.99 <1	<450 425 425 – – 4.37 <1	<450 425 425 10000 15000 4.77 <1	<450 425 450 – – 4.44 <1					
BV	<450 425 450 – – 3.93 <1	<450 425 500 10000 15000 4.56 <1	<450 425 500 – – 3.81 <1	<450 425 450 – – 4.46 <1	<450 425 450 10000 15000 5.04 <1	<450 425 500 – – 3.93 <1	<450 425 450 – – 5.99 <1	<450 425 500 – – 4.76 <1	<450 425 550 – – 6.67 <1	<450 425 525 – – 4.48 <1	<450 425 450 – – 4.88 <1	<450 425 500 10000 15000 5.41 <1	<450 425 450 – – 3.81 <1					
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BT	<450 425 400 10000 15000 2.85 <1	<450 425 400 – – 2.75 <1	<450 425 425 – – 3.39 <1	<450 425 450 – – 4.23 <1	<450 425 500 – – 4.85 <1	<450 425 450 10000 15000 4.64 <1	<450 425 500 – – 4.55 <1	<450 425 500 – – 4.79 <1	<450 425 500 – – 4.66 <1	<450 425 500 – – 4.83 <1	<450 425 525 – – 3.37 <1	<450 425 525 – – 2.73 <1	<450 425 425 10000 15000 4.09 <1	<450 425 475 – – 4.36 <1				
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BR	<450 425 450 10000 15000 3.21 <1	<450 425 500 – – 2.08 <1	<450 425 500 10000 12500 3.72 <1	<450 425 450 – – 2.64 <1	<450 425 450 – – 3.94 <1	<450 425 500 10000 15000 4.16 <1	<450 425 550 – – 3.80 <1	<450 425 600 10000 17500 3.50 <1	<450 425 600 – – 4.11 <1	<450 425 600 – – 4.08 <1	<450 425 600 10000 17500 3.70 <1	<450 425 400 – – 2.97 <1	<450 425 500 10000 17500 3.58 <1	<450 425 450 – – 3.47 <1	<450 425 500 – – 3.92 <1			
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Sample Data

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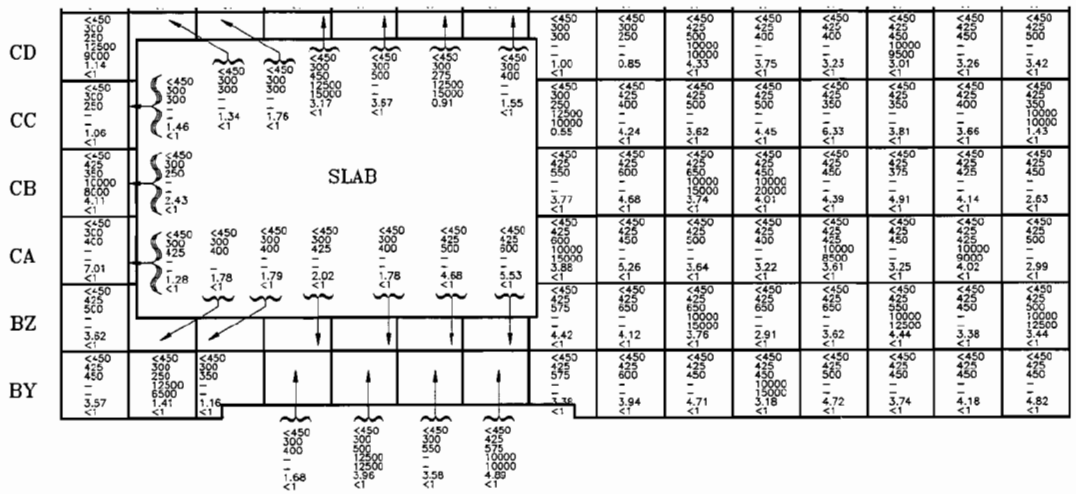
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



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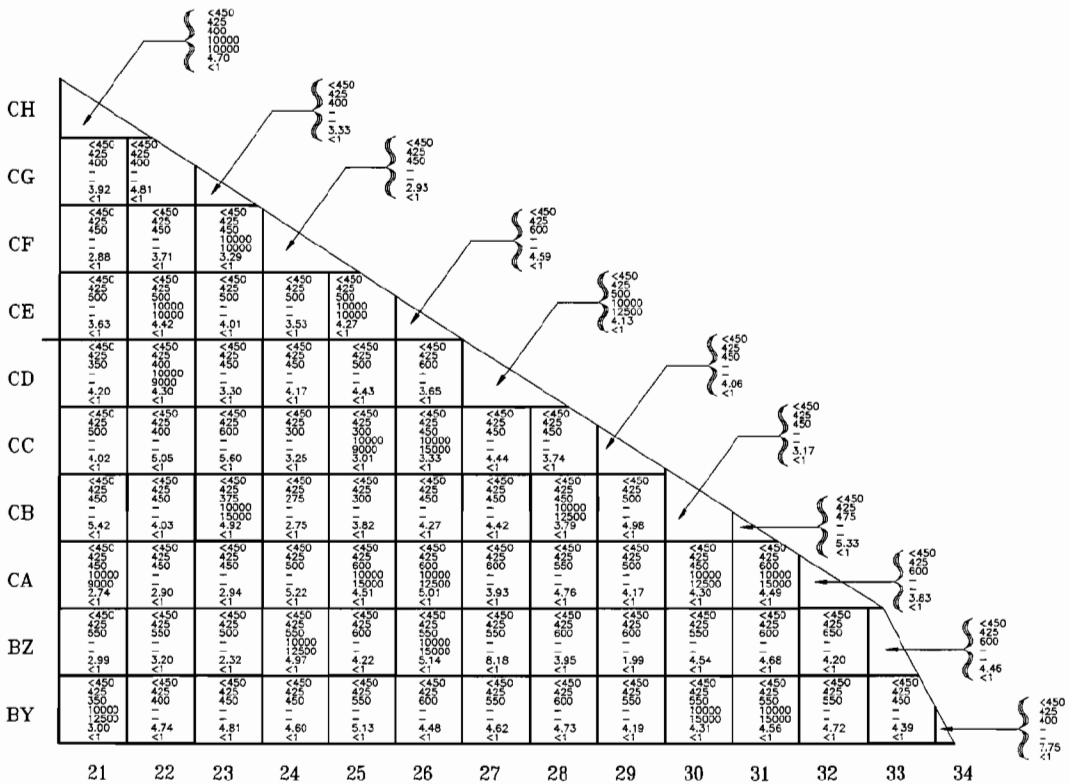
1. Dry Dock 1

e. Localized Grid Maps (Adjacent Area)



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1. Dry Dock 1

f. Prior Photograph

Viewing toward caisson

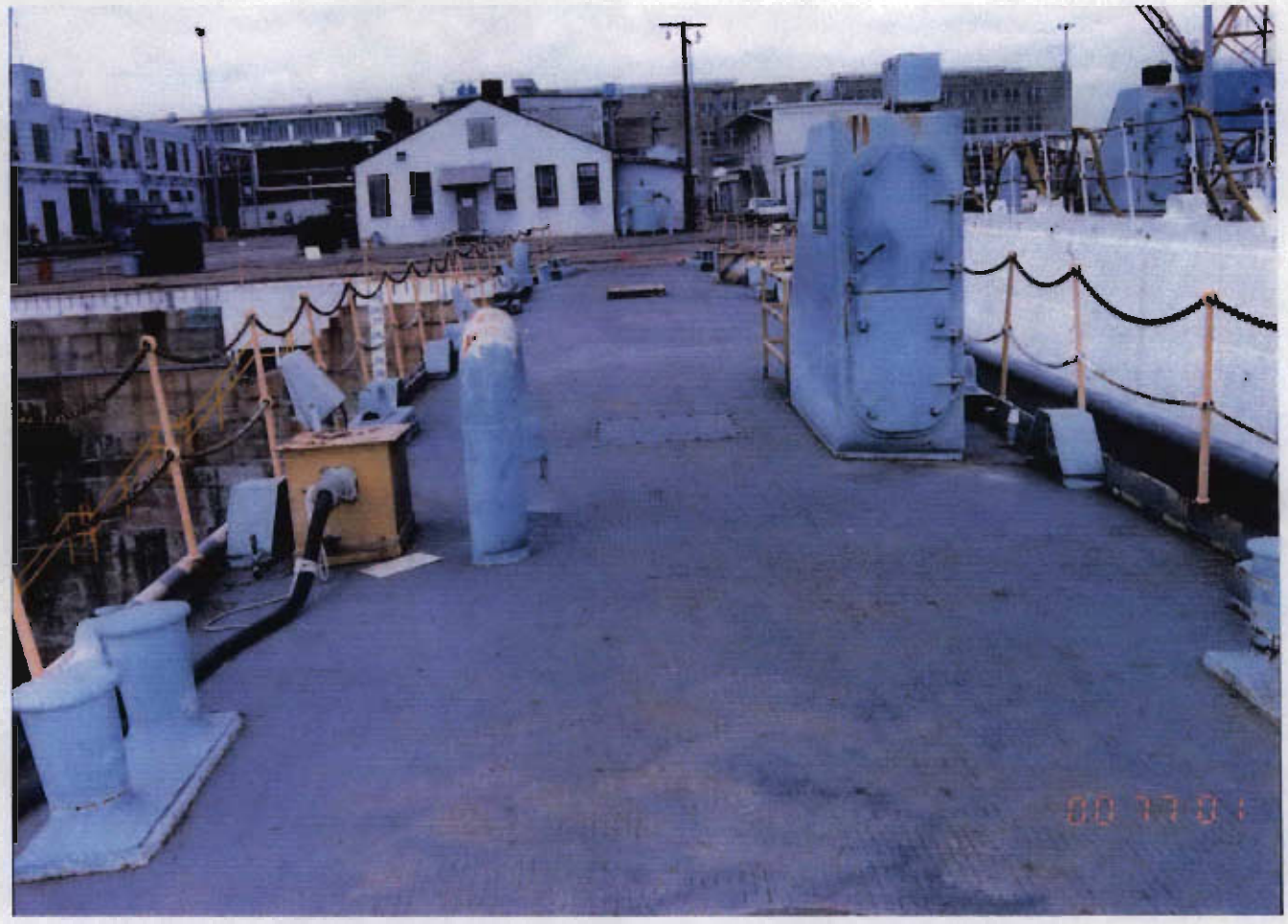
1. Dry Dock 1

f. Prior Photograph

Viewing toward west wall.

1. Dry Dock 1

f. Prior Photograph



Viewing top of caisson.

1. Dry Dock 1

f. Prior Photograph

Adjacent area north of drydock

1. Dry Dock 1

f. Prior Photograph

Adjacent area south of drydock.

1. Dry Dock 1

g. After Photograph

Viewing toward caisson.

1. Dry Dock 1

g. After Photograph

Viewing toward west wall.

1. Dry Dock 1

g. After Photograph

Viewing top of caisson.

1. Dry Dock 1

g. After Photograph

Adjacent area north of drydock.

1. Dry Dock 1

g. After Photograph

Adjacent area south of drydock.

2. Dry Dock 2

a. Introduction:

Dry Dock 2 is located in grid D-6 of the Charleston Naval Shipyard map (Figure 10) and was constructed in 1942. Dry Dock 2 is also identified as structure 302.

(1) Description:

Structure 302 is rectangular, 603 feet long by 114 feet wide by 43 feet deep and is facing east into the Cooper River. Dry Dock 2 is of concrete construction, and contains water collection troughs to control run off. The troughs drain into pumping system sumps that discharge to the Cooper River. The troughs and sumps are covered with metal grates. Dry Dock 2 is constructed of reinforced poured concrete floor and walls with a metal caisson. The adjacent areas include an approximately 40' perimeter area around Dry Dock 2 and an adjacent Radioactive Material Storage Area west of the drydock. These adjacent areas have a ground cover of asphalt and concrete. Along the north and south dry dock walls are service galleries and four sets of concrete stairways. Also the service tunnel #2 door into the dry dock is located on the north wall.

(2) Brief History:

(a) **Use:** Structure 302 was part of the U.S. naval shore establishment expansion program implemented prior to and during World War II. The dry dock was intended for use to construct two destroyers at one time; however, it was not used for ship construction during or after World War II because of urgent need for ship repairs and conversion needs.
Later Dry Dock 2 was used for the overhaul and refueling of nuclear submarines.

(b) **Radiological History:** Radiation areas, high radiation areas, and radioactive material storage areas were established in the dry dock and adjacent areas. Designated areas in Dry Dock 2 were established as radiologically controlled areas during the dry docking of submarines. Radiological work performed included resin discharges, reactor vessel fill and pump down, radioactive liquid discharges to tanks through connected piping, retention tank inspection and repair, refuelings, and decontamination of ship hulls.

Loose surface contamination levels greater than 10,000 $\mu\mu Ci/100cm^2$ have been found on ship hulls after entry into this dry dock. Spills of radioactive liquid resulting in loose surface contamination levels of several thousand $\mu\mu Ci/100cm^2$ have occurred. Spill areas were decontaminated and released from

2. Dry Dock 2

radiological controls. Contamination levels were otherwise maintained less than 450 μμCi/100cm^2.

(3) **Survey Requirements:**

Dry Dock survey.

b. Discussion:

Dry Dock 2 is categorized under dry dock surveys. 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. Portions of this dry dock and adjacent areas which were known storage areas for portable effluent tanks or other radioactive material, 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. The water collection troughs were divided into approximately 5' by 5' grid sections. An area located on the north wall including service tunnel #2 door was also divided into approximate 5' by 5' grids. Each grid and subsection was identified with a unique designation.

Each 3' by 3' subsection was surveyed using the IM-247/PD and the IM-253/PD (HV1/PHA). A minimum of 50 percent of the 3' by 3' subsections was 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 percent of the 5' by 5' grids was surveyed using the IM-253/PD (HV-2 GROSS).

Solid material samples were taken from each 5' by 5' grid and each 20' by 20' floor grid.

Portions of the adjacent areas, service galleries, and stairwells 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 was 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). Solid material samples were taken from a minimum of 50 percent of the 10' by 10' grids and each 3' by 3' subsection that indicated greater than 450 μμCi/20cm^2 using the IM-247/PD or greater than twice background with the IM-253/PD.

Individual backgrounds were used for Dry Dock 2 floor, walls, water collection troughs, adjacent areas, metal grates, and caisson. These structures consisted

2. Dry Dock 2

of metal, asphalt, and concrete. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the low and high natural radioactivity concrete pours in the dry dock were 40, 200, and 5000; and 60, 500, and 15000 counts per minute respectively. These areas were based upon background radiation levels obtained from Building 21 and Building 1079. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the low and high natural radioactivity asphalt pours, based on the IM-247/PD levels, were 60, 400, and 15000; and 80, 400, and 12000 counts per minute respectively. These areas were based upon background radiation levels obtained from Building 220 north walkway and Building 1648 road. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the metal structures were 50, 250,and 8000; and 60, 200, and 5000 counts per minute respectively. These areas were based upon background radiation levels obtained from Building 1874.

No survey data was taken from grid ADJ BI-23 due to a winch located there. The 5' by 5' grids S2, S3, S19, and U3 located on the drydock floor were unpainted metal grates and no solid samples were required.

A total of 3058 solid material samples was taken. Each solid sample was removed from the grid location indicating the area of highest potential. Sediment samples were taken from the dry dock sump but were not displayed on the grid maps. The following naturally occurring radionuclides were typical isotopes identified during analysis of solid material samples: lead 212, lead 214, and thallium 208.

c. Summary:

Surveys performed with the IM-247/PD did not detect areas greater than 450 $\mu\mu Ci/20cm^2$. However, surveys performed in grid ADJ-Z5A with the IM-247/PD detected 450 $\mu\mu Ci/20cm^2$. Analysis of the solid sample taken in ADJ-Z5A indicated the activity was due to naturally occurring radionuclides.

Surveys performed with the IM-253/PD (HV1/PHA) detected 91 areas greater than or equal to twice background.

Surveys performed with the IM-253/PD (HV2/GROSS) detected 88 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 less than 0.31 pCi/g to a high of 11.75 pCi/g.

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

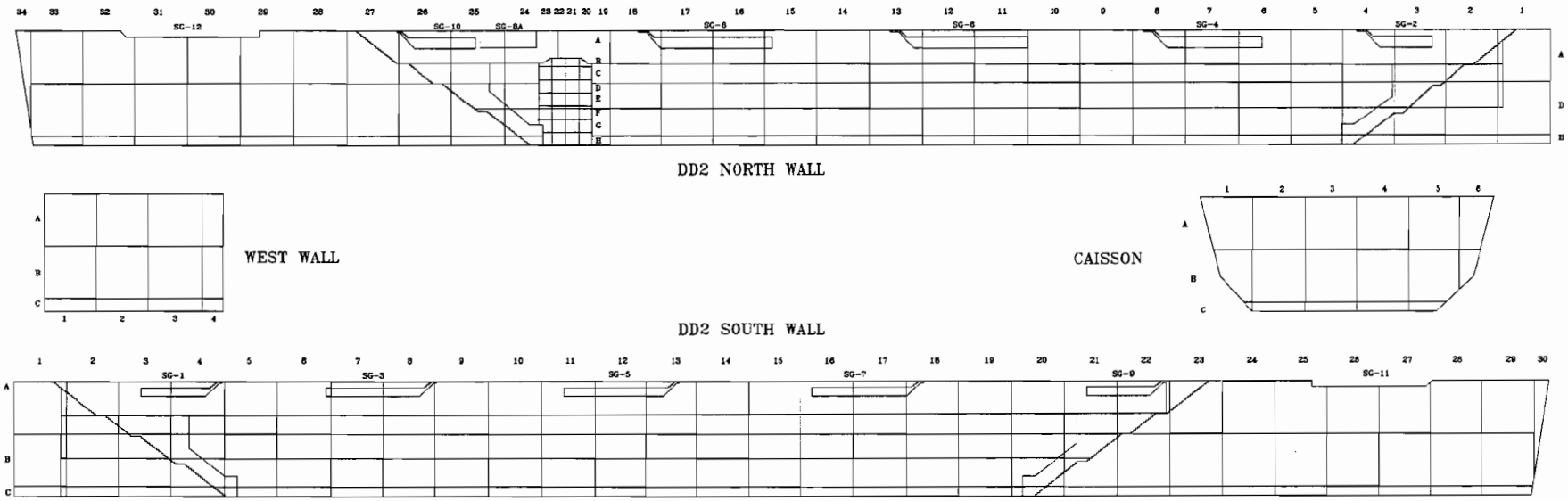
Analysis performed on solid material samples with the MCA for specific cobalt

2. Dry Dock 2

60, indicated one solid material sample exceeding 1 pCi/g. The affected area was identified by taking additional solid material samples in the surrounding vicinity. Remediation consisted of excavation of concrete from the identified area to a depth of ½" using scabbling equipment. Following remediation, additional solid material samples were taken in the area and all were less than 1 pCi/g specific cobalt 60. No traces of cobalt 60 were identified.

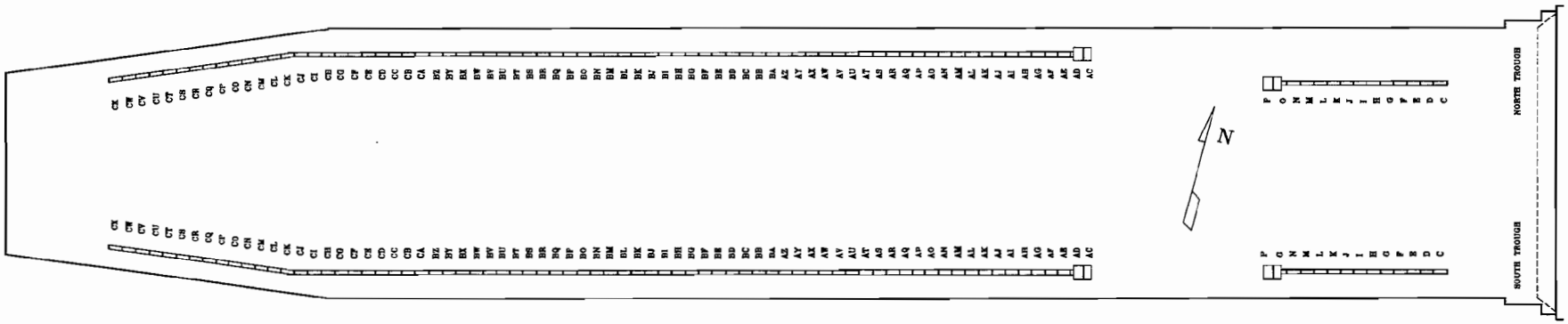
2. Dry Dock 2

d. Overall Grid Map (Walls, Caisson, Service Galleries)



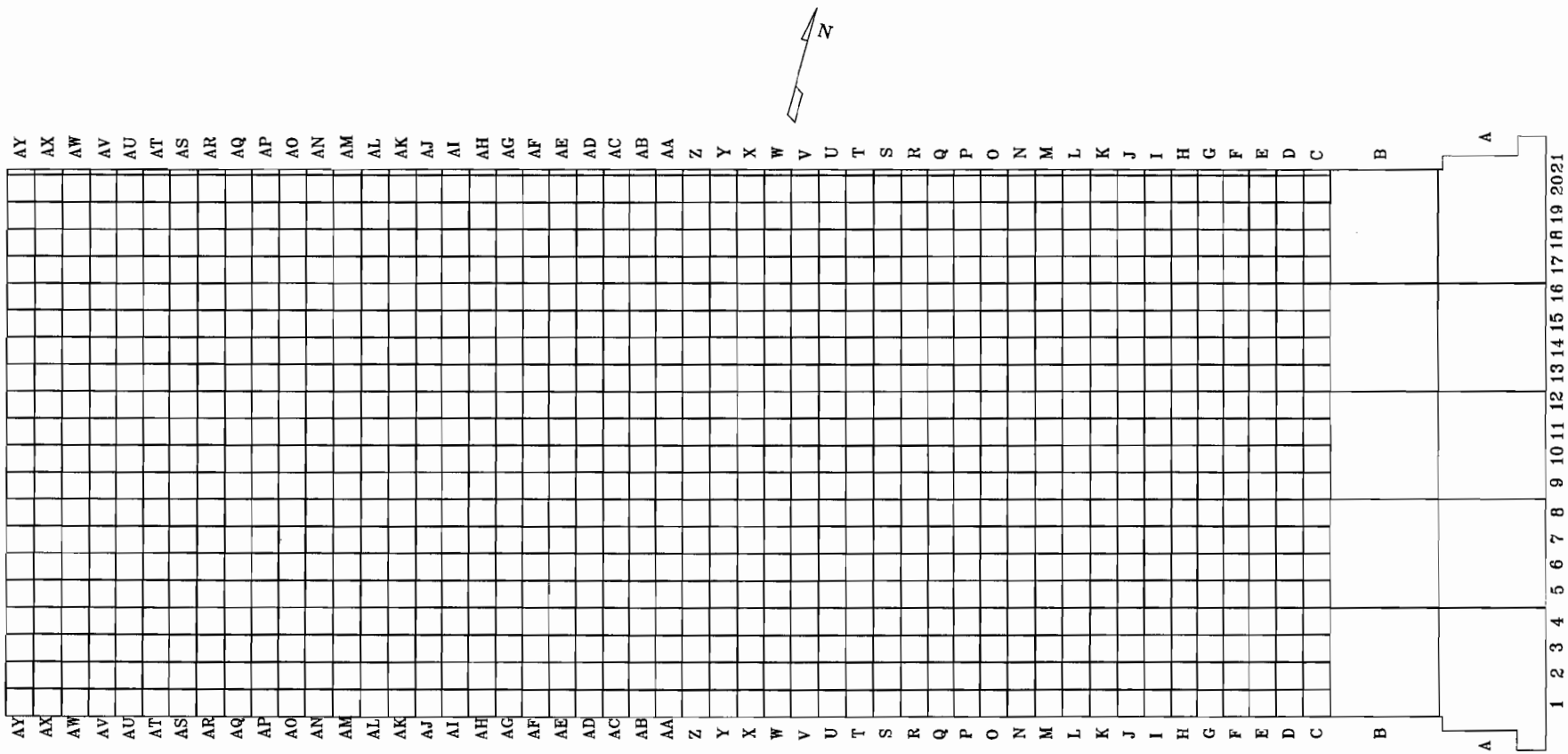
2. Dry Dock 2

d. Overall Grid Map (Water Collection Troughs)



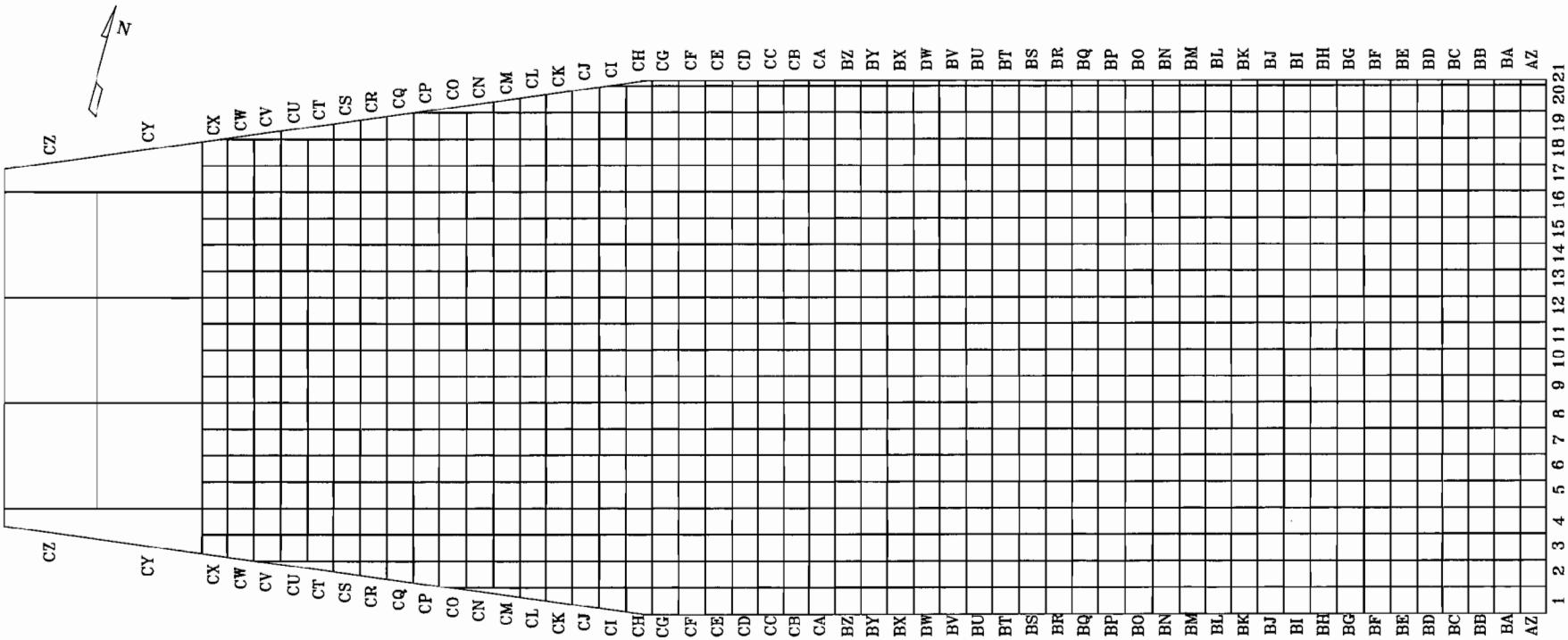
2. Dry Dock 2

d. Overall Grid Map (Floor)



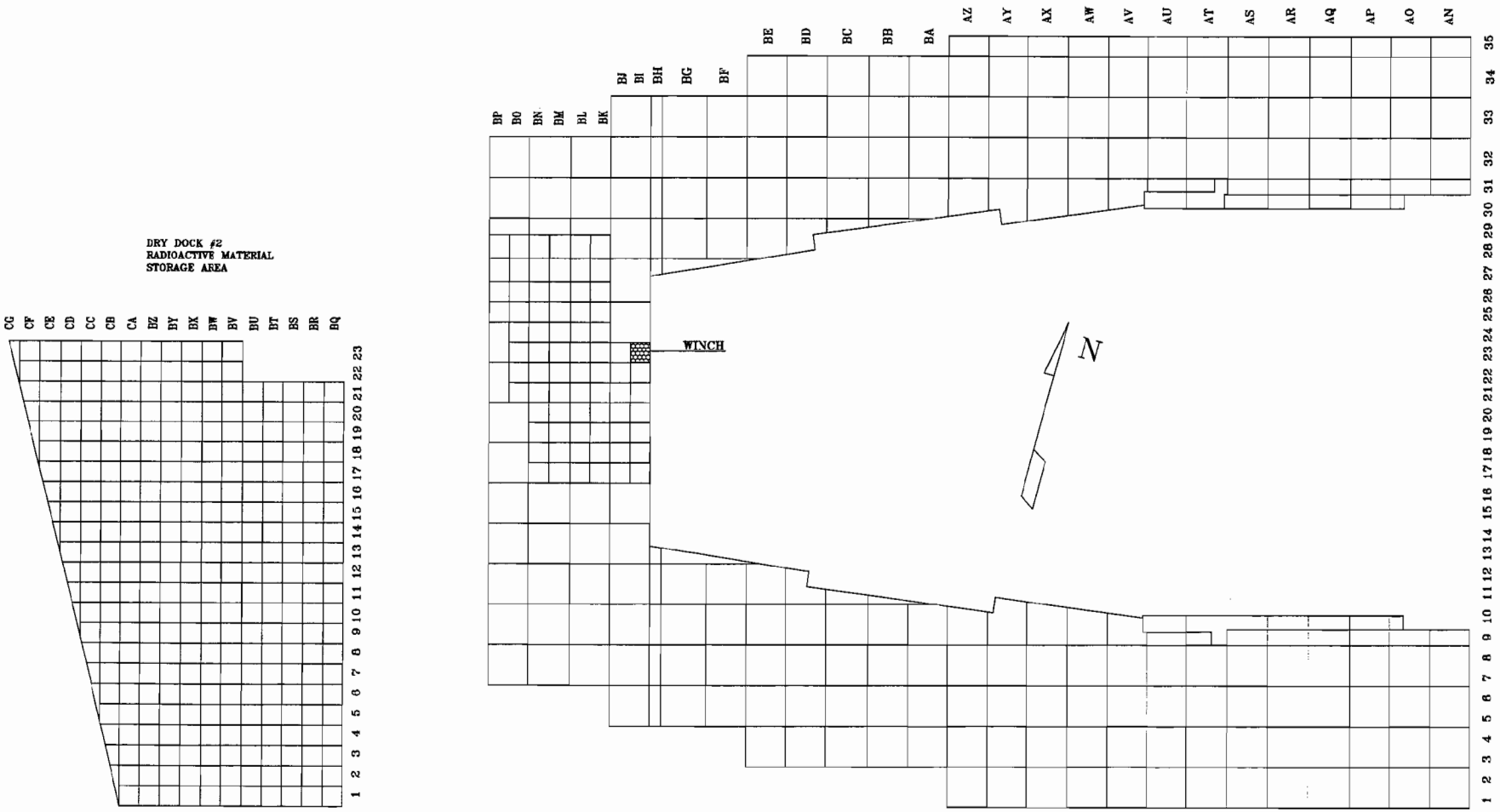
2. Dry Dock 2

d. Overall Grid Map (Floor)



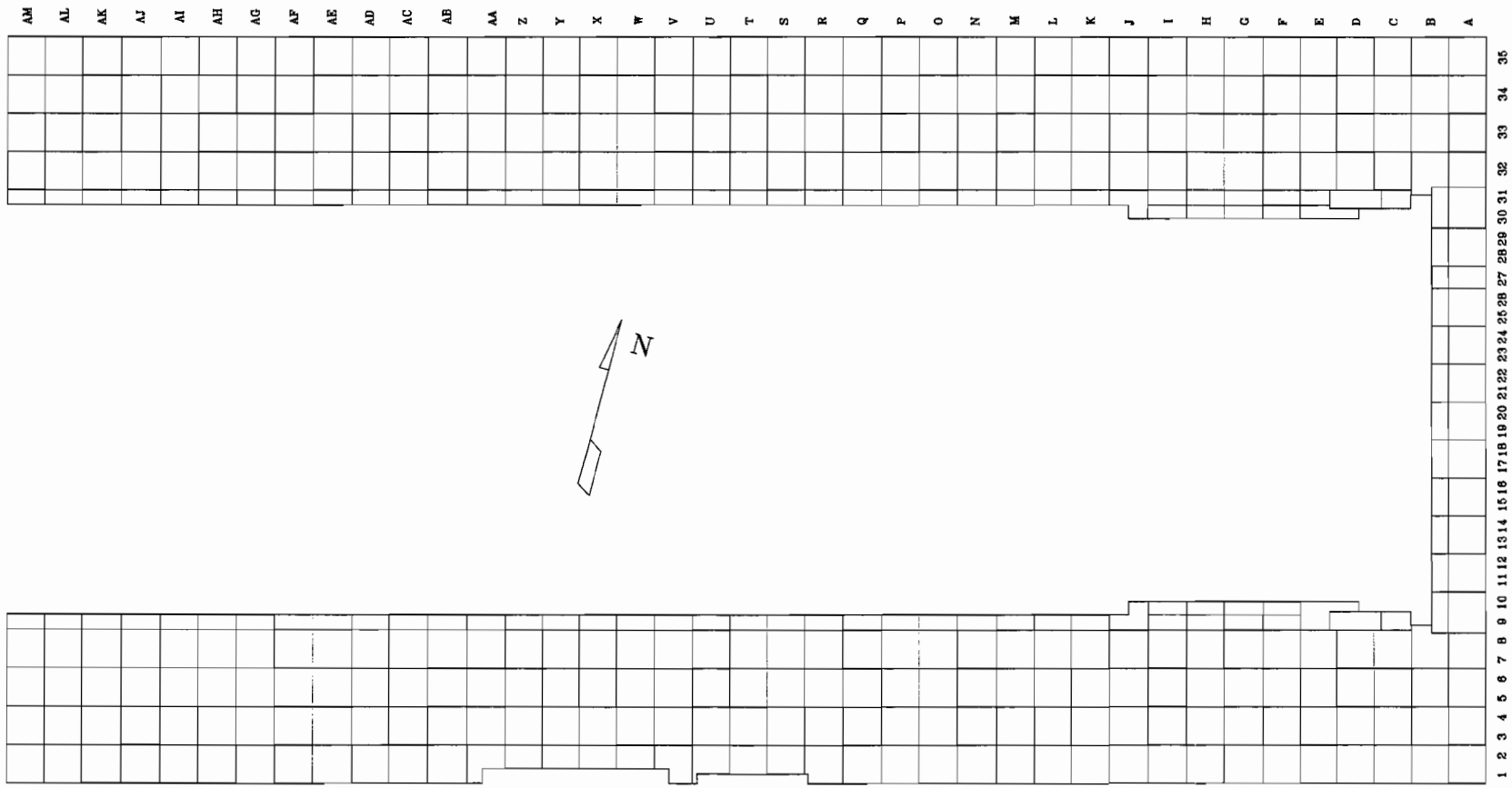
2. Dry Dock 2

d. Overall Grid Map (Adjacent Area)



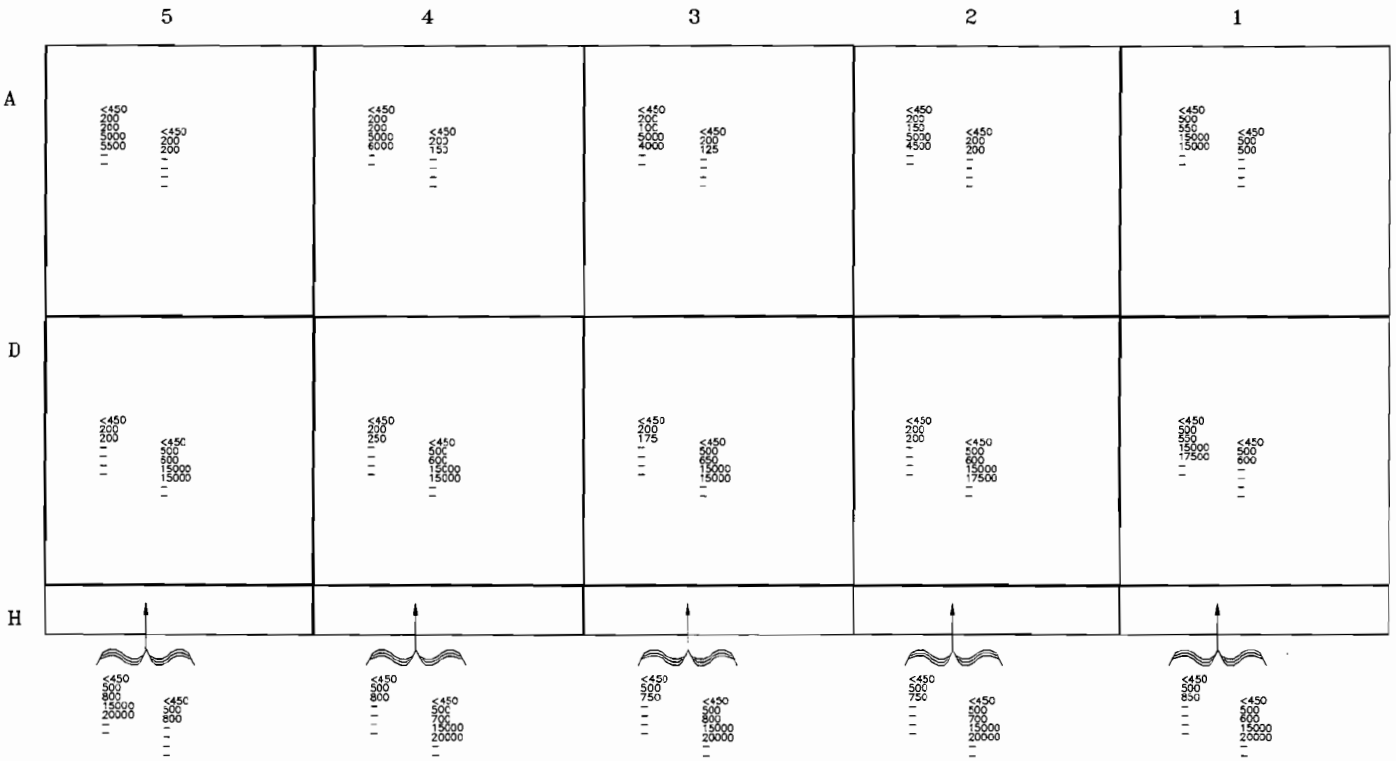
2. Dry Dock 2

d. Overall Grid Map (Adjacent Area)



2. Dry Dock 2

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]
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]
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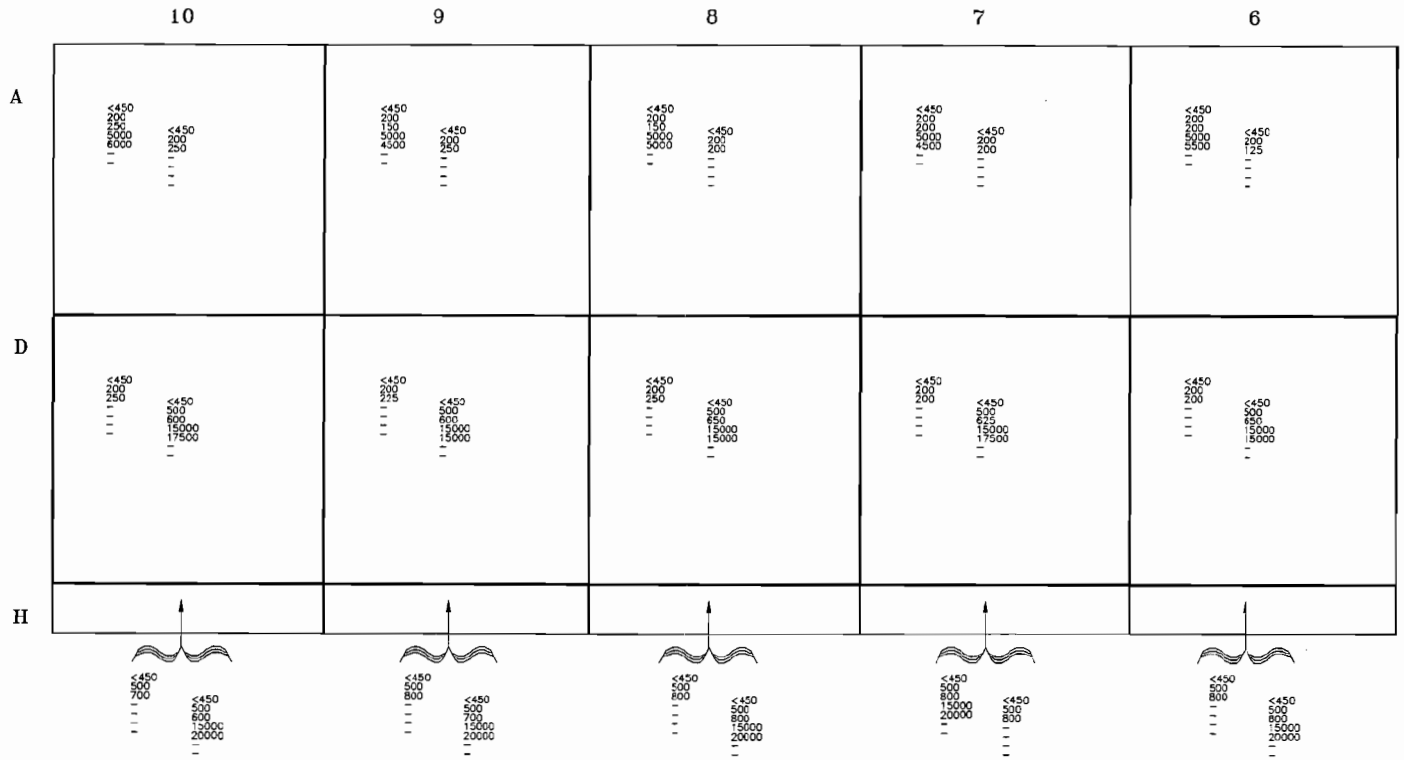
2. Dry Dock 2

e. Localized Grid Maps (North Wall)

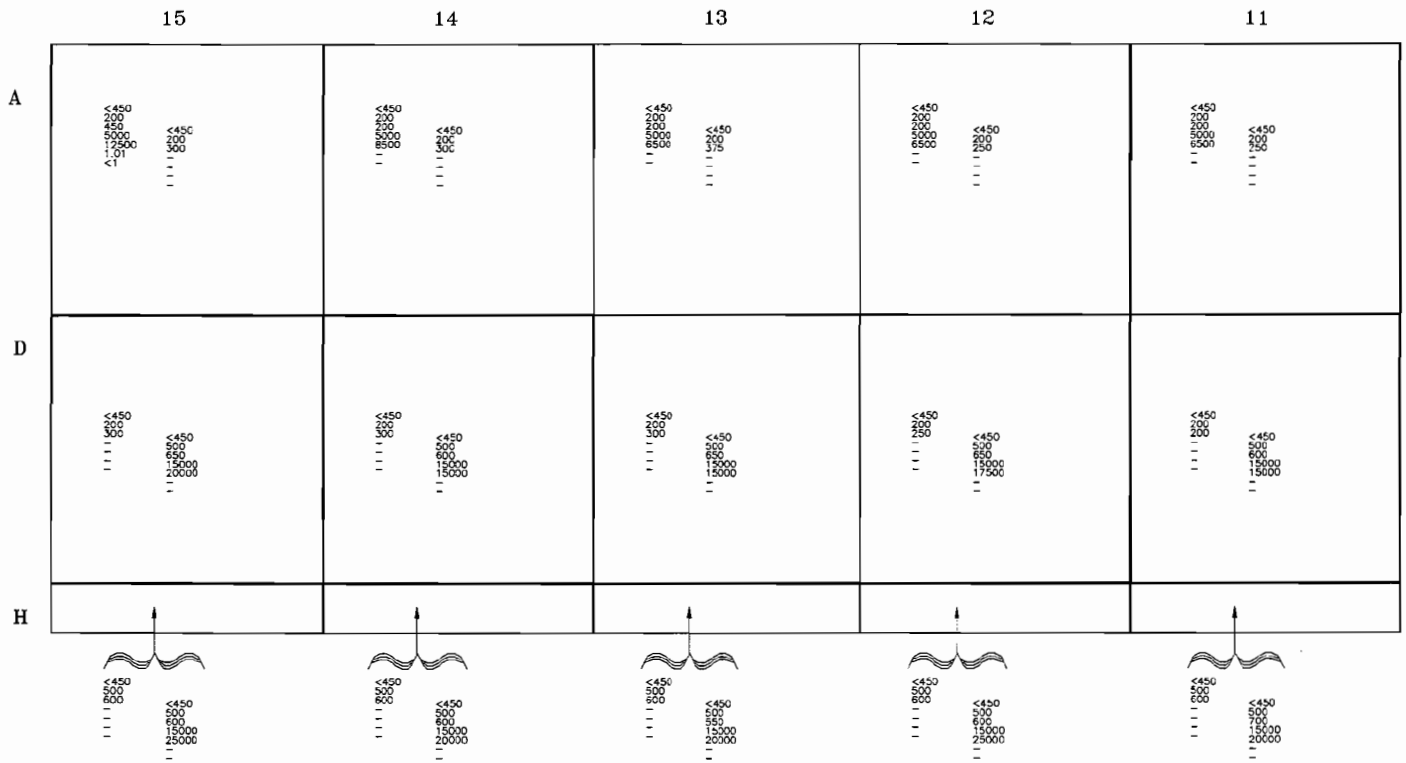


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (North Wall)

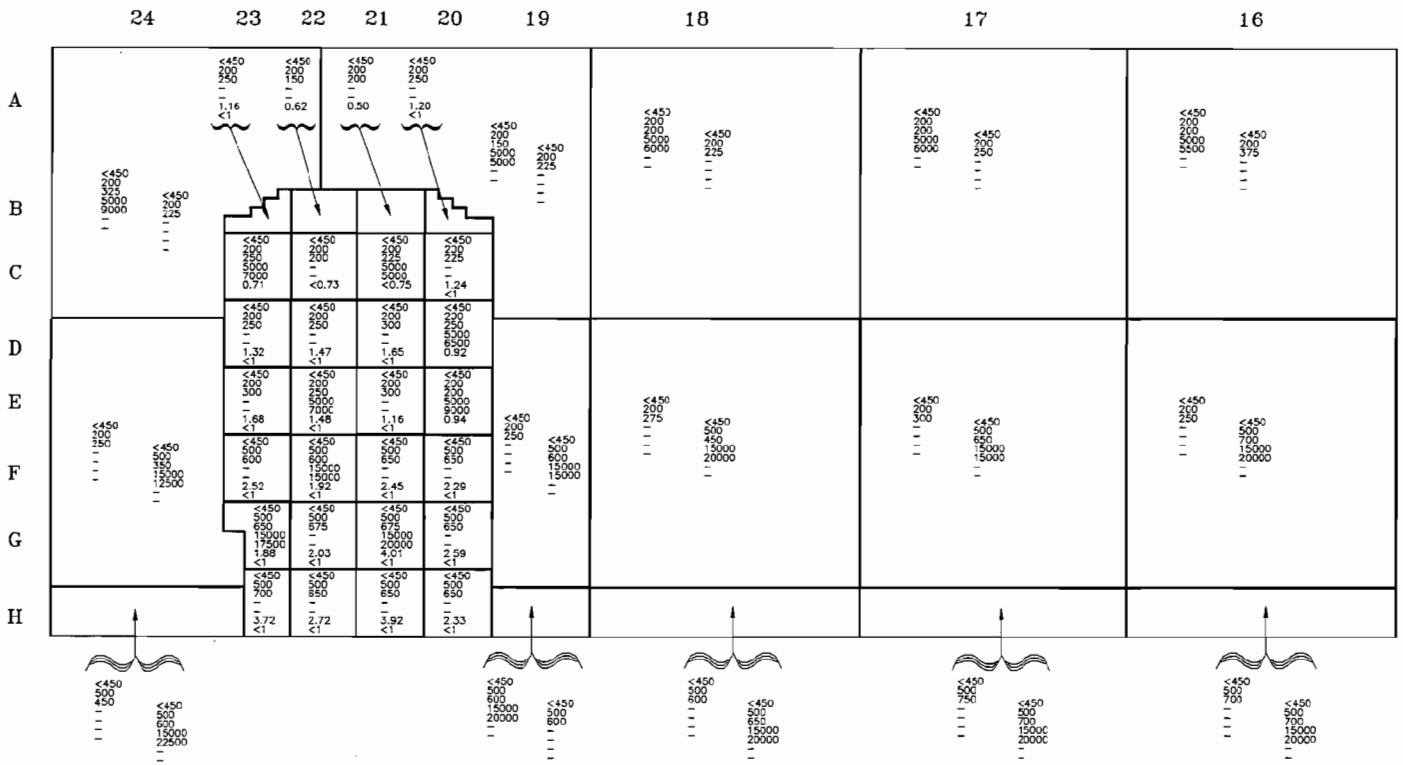


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (North Wall)



Sample Data

<450 – IM-247/PD Results [µµCi/29cm²]
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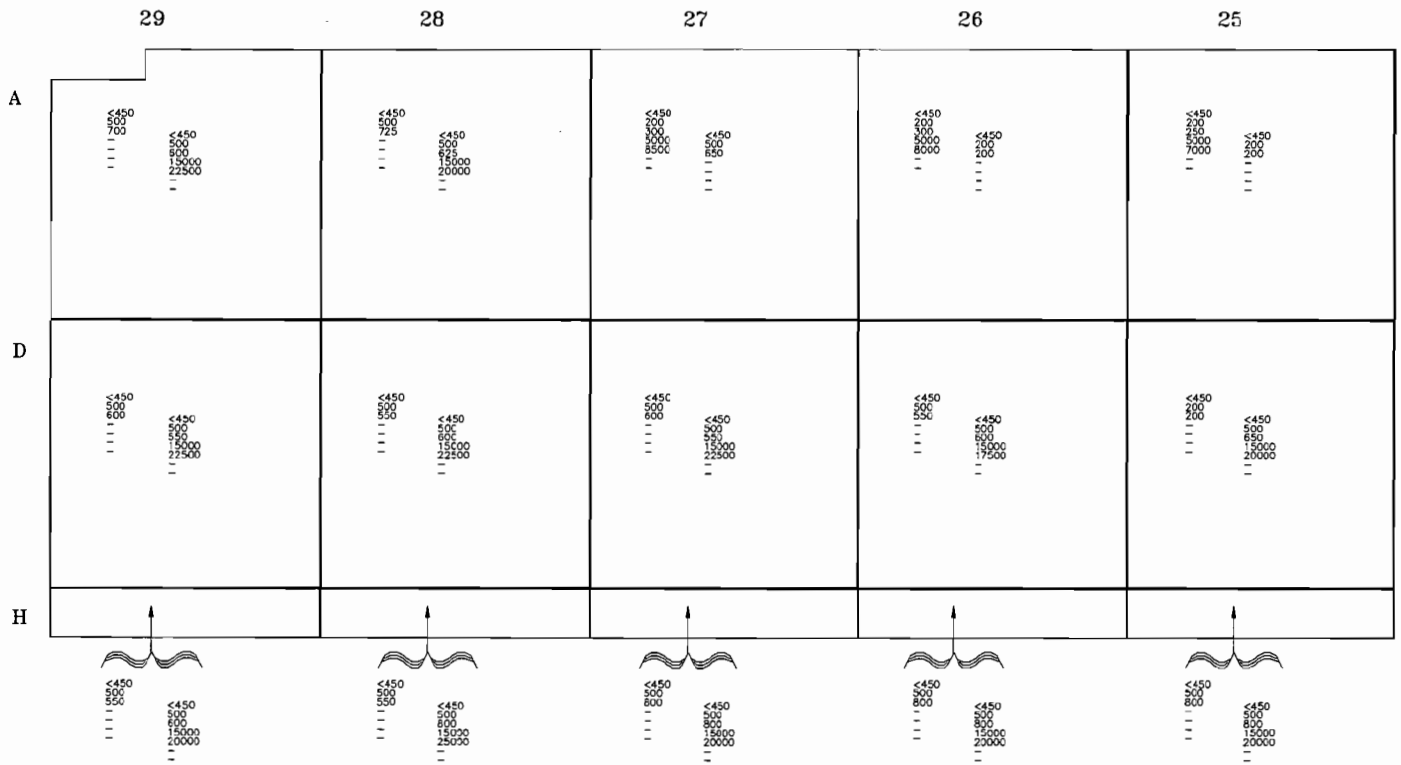
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GRCSS) [bkg.]
7300 – IM-253/PD (HV-2 GRCSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (North Wall)

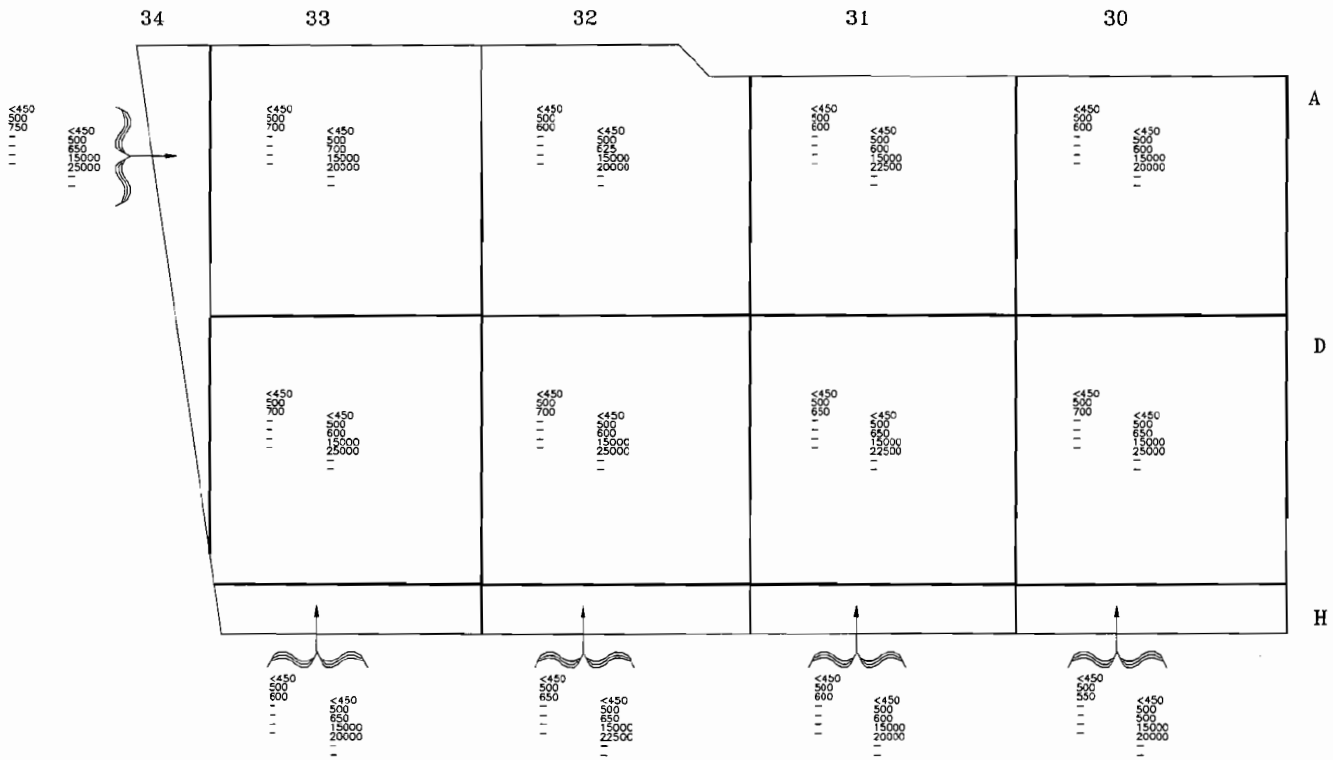


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (North Wall)

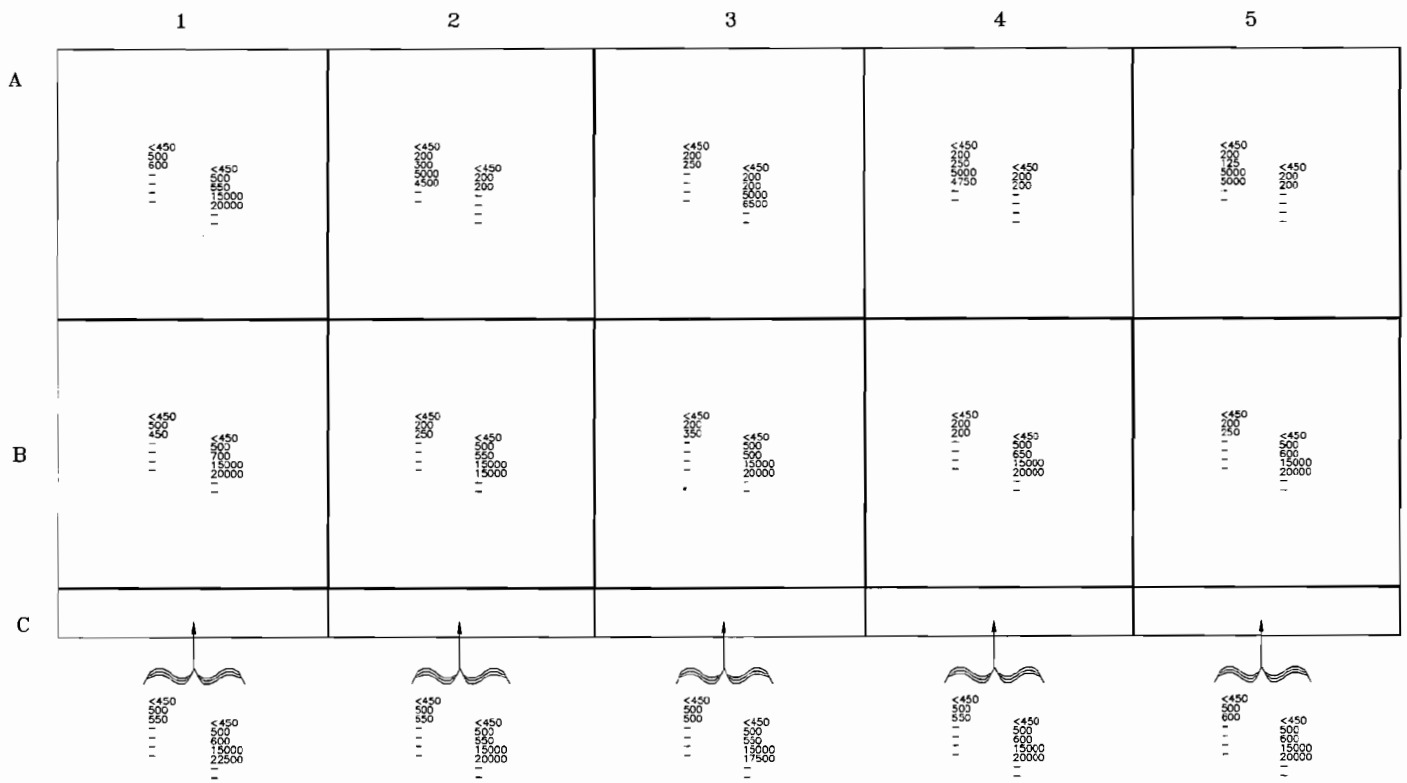


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

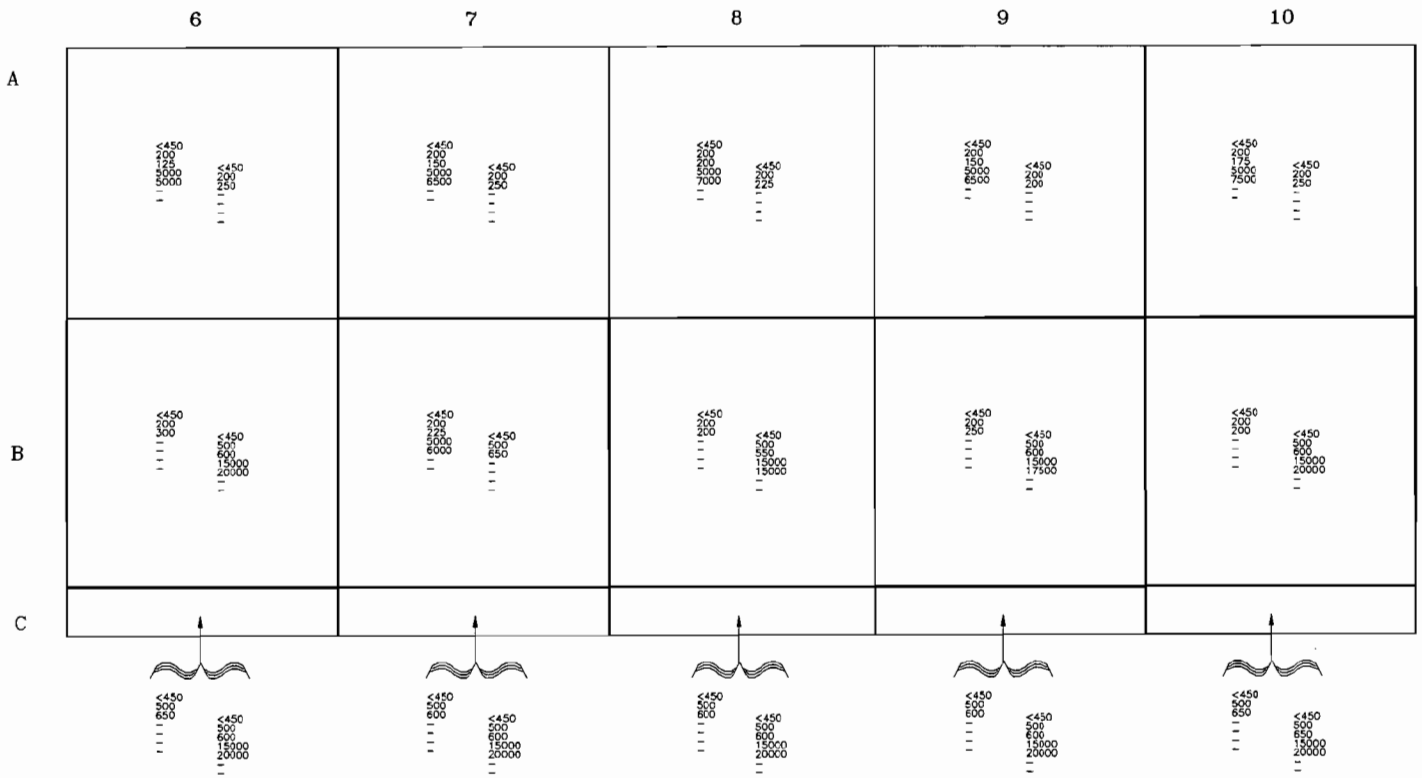


Sample Data

<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 Ec. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

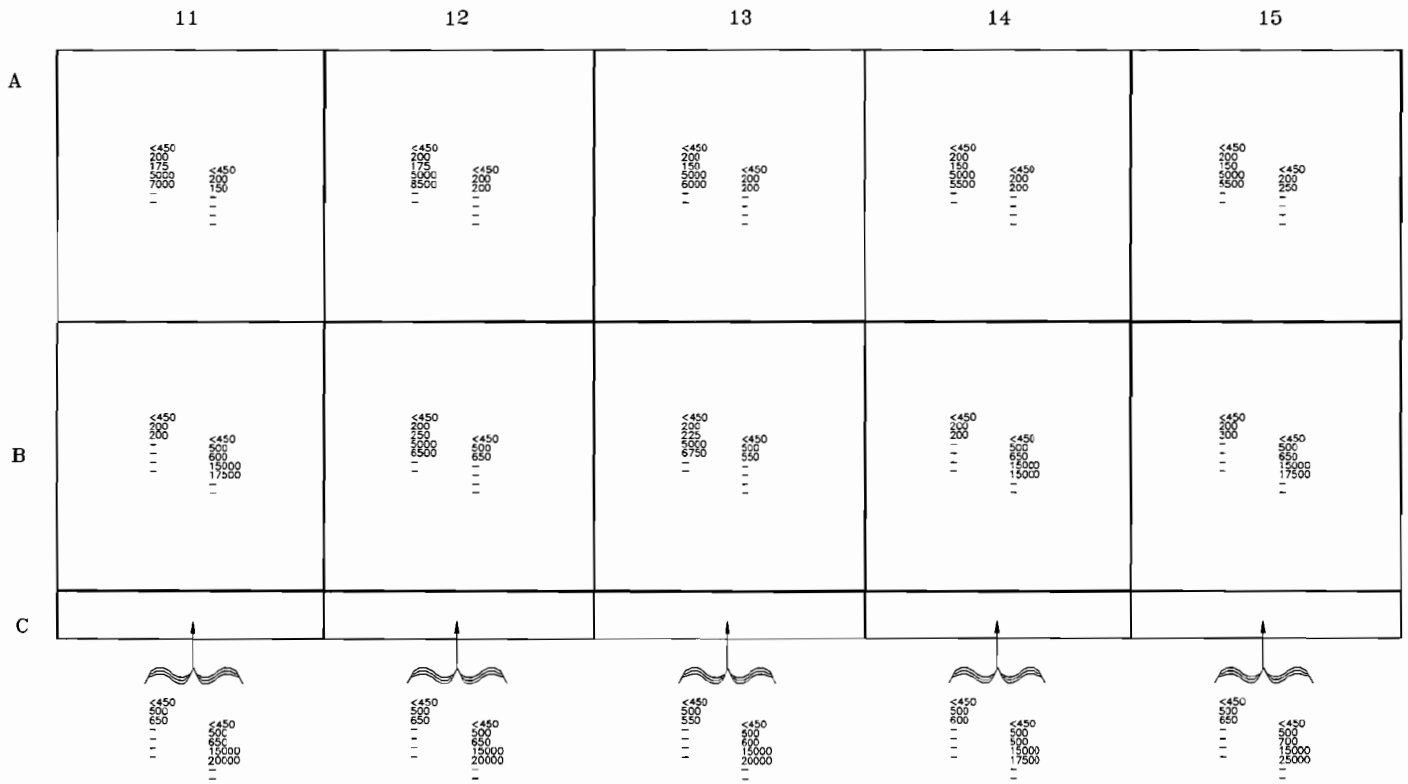


Sample Data

<450 – IM-247/PD Resuts [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 Resuts [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

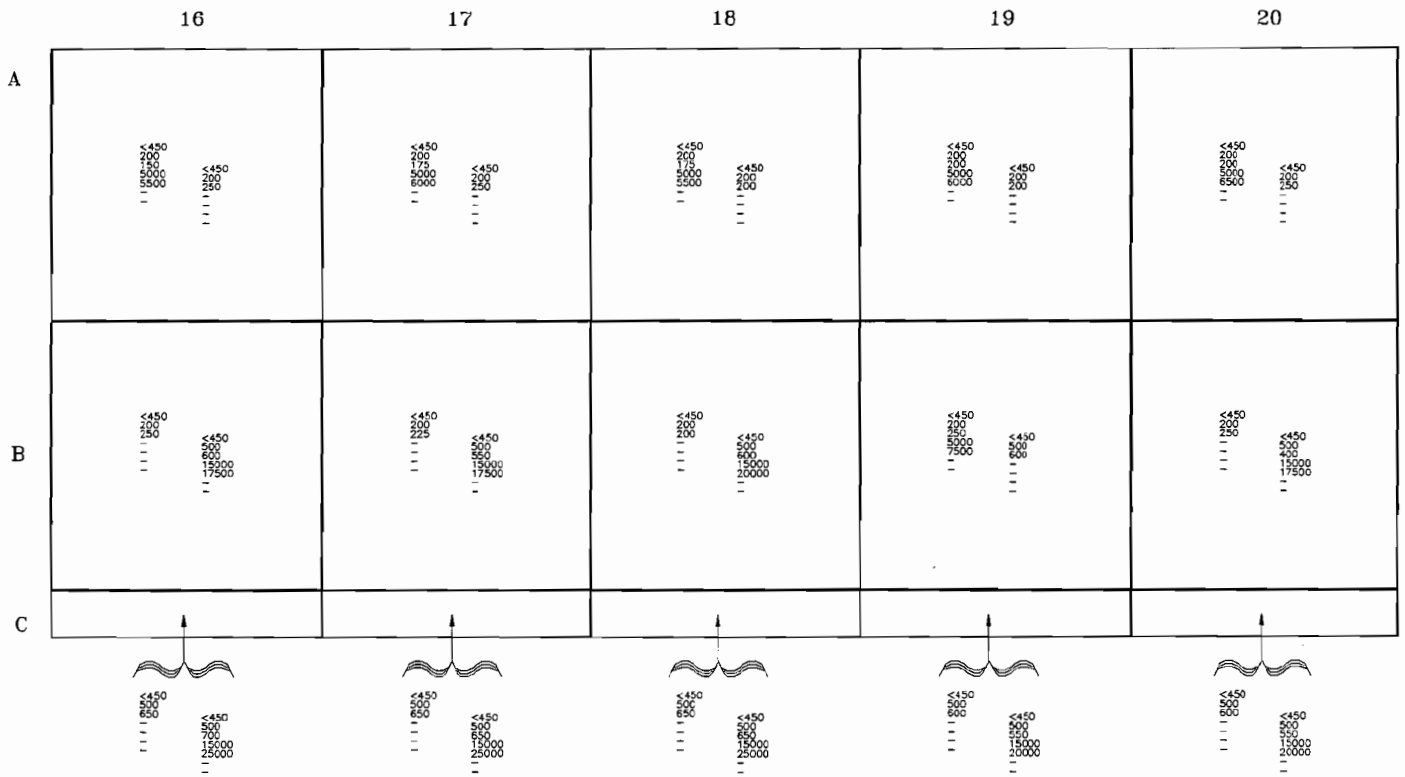


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

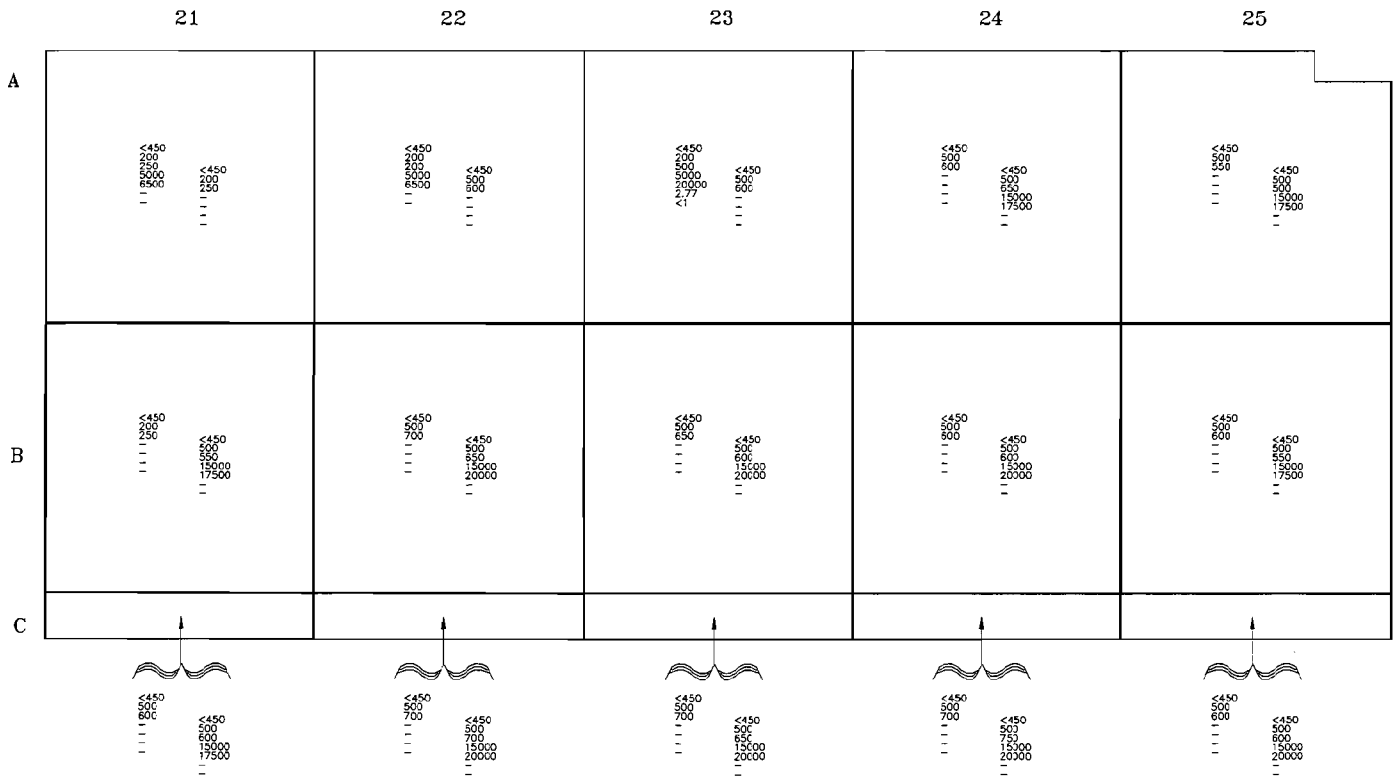


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

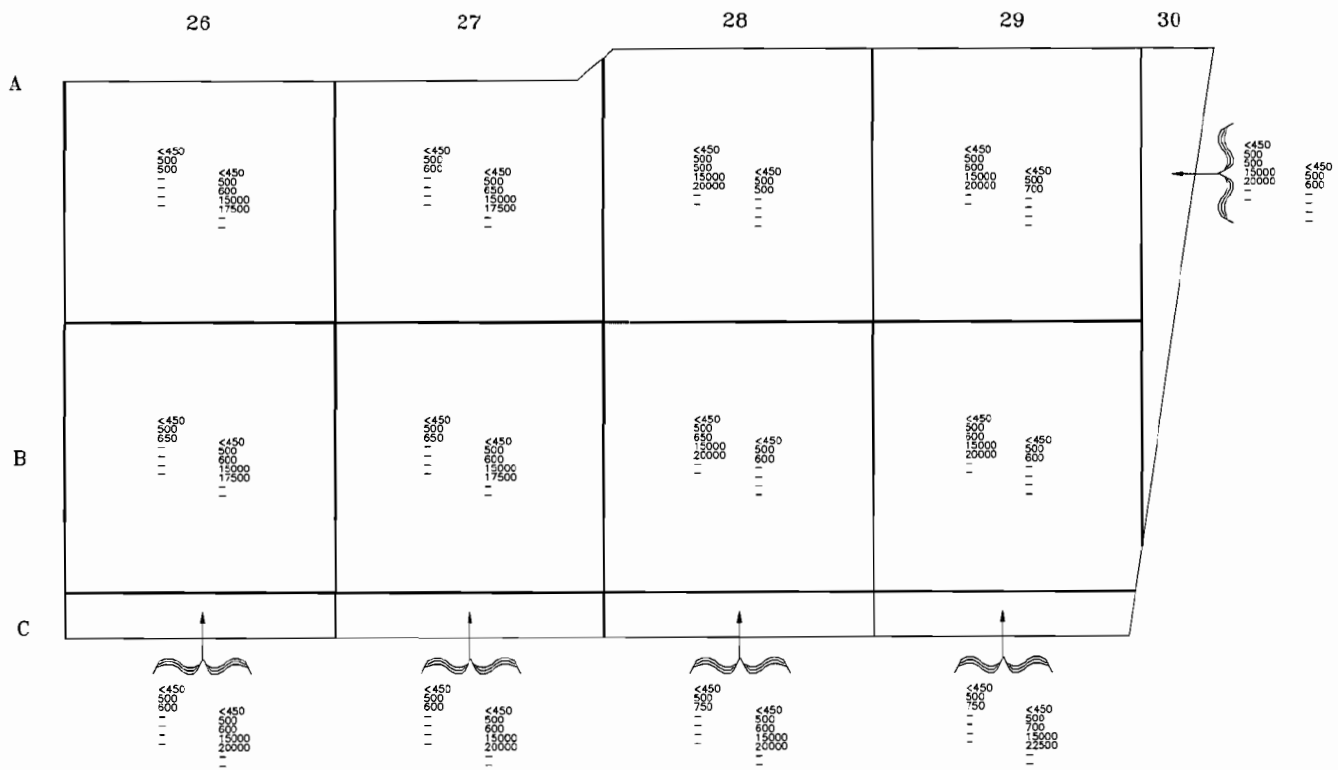


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (South Wall)

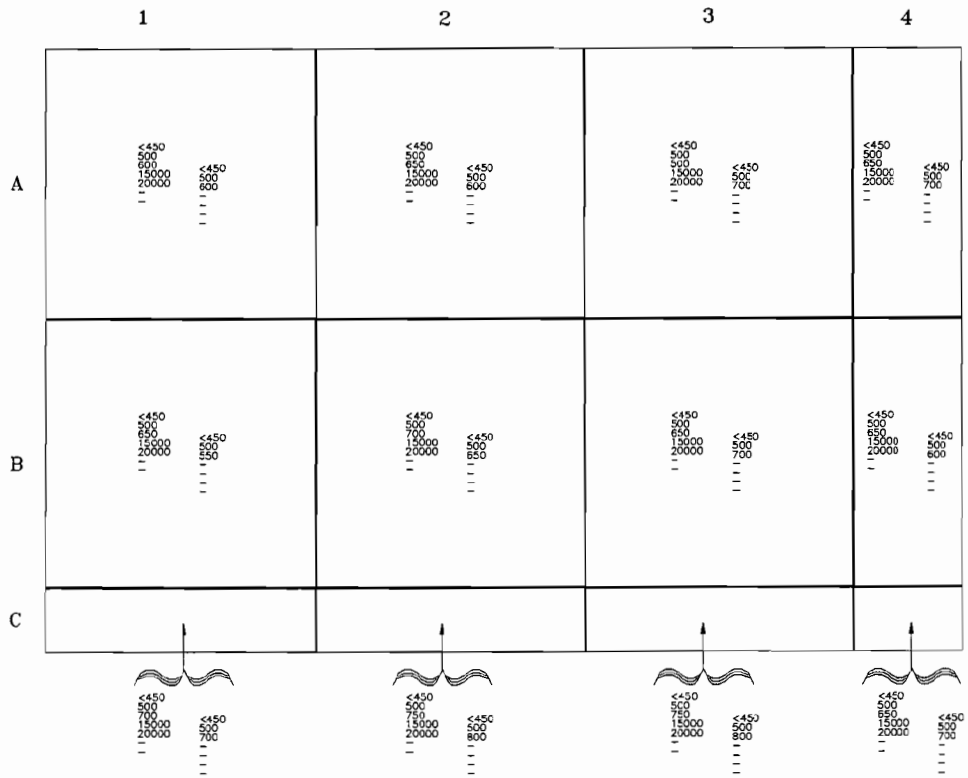


Sample Data

< 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]

2. Dry Dock 2

e. Localized Grid Maps (West Wall)



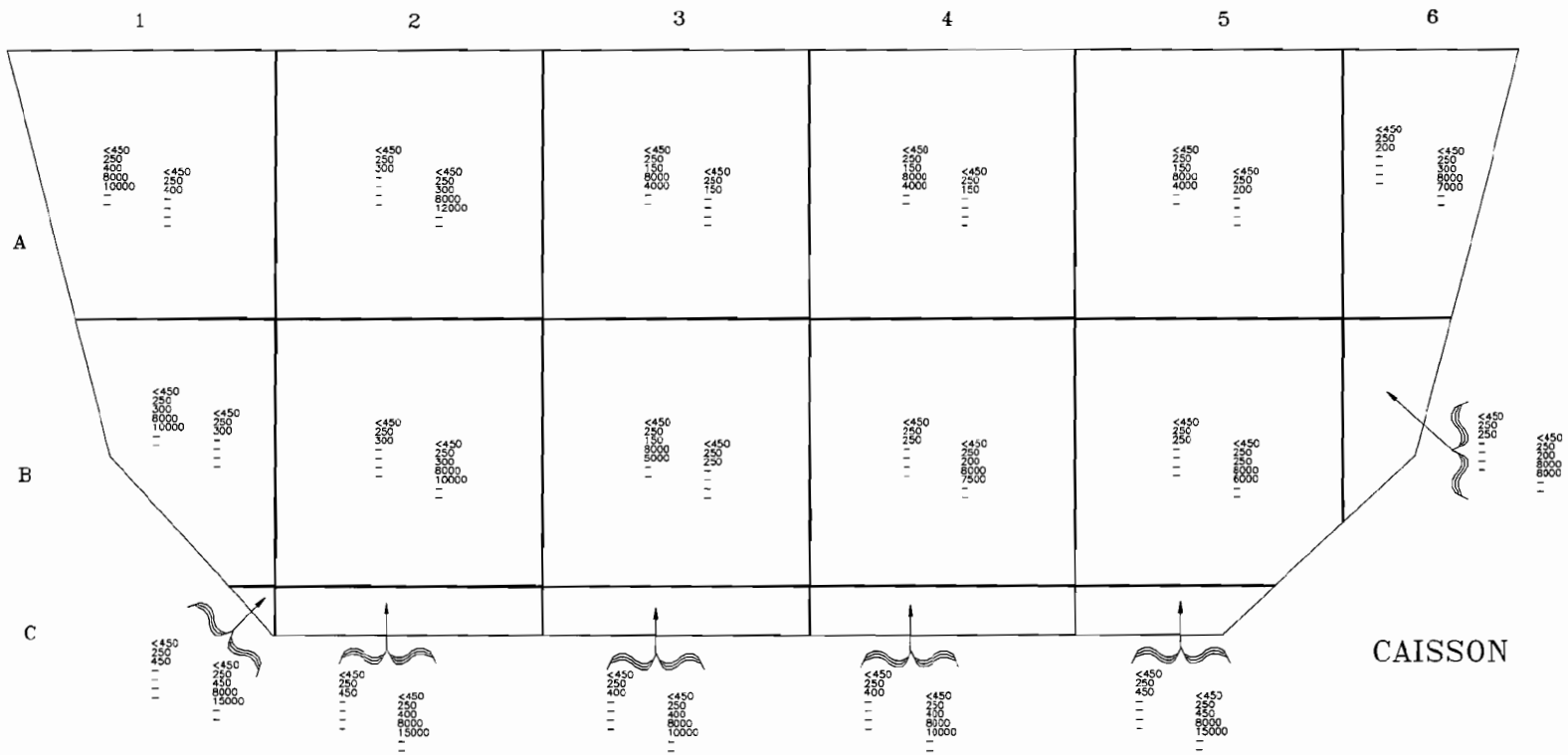
WEST WALL

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]

2. Dry Dock 2

e. Localized Grid Maps (Caisson)

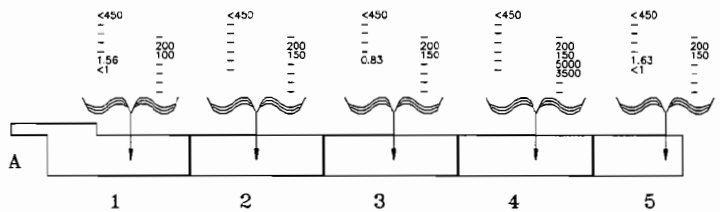


Sample Data

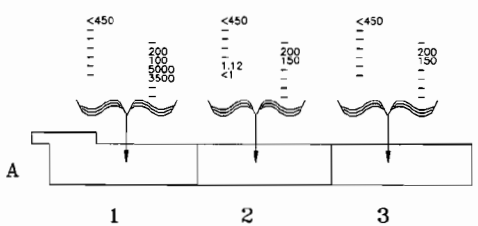
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

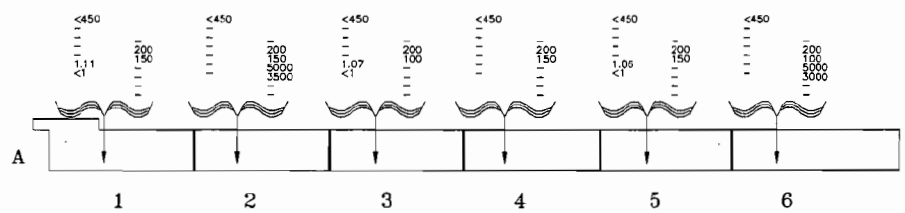
e. Localized Grid Maps (Service Galleries)



S.G. #4



S.G. #2



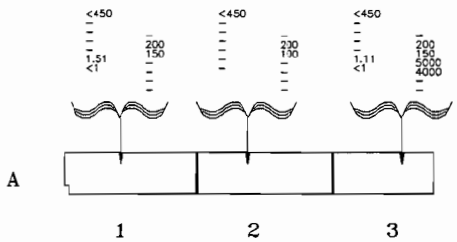
S.G. #6

Sample Data

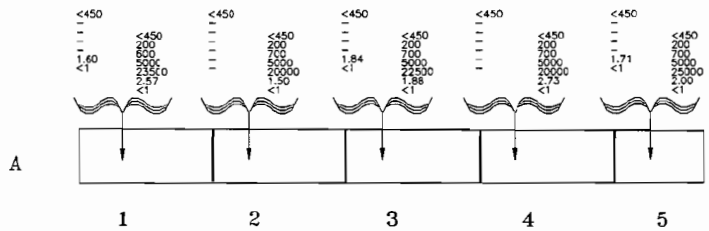
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

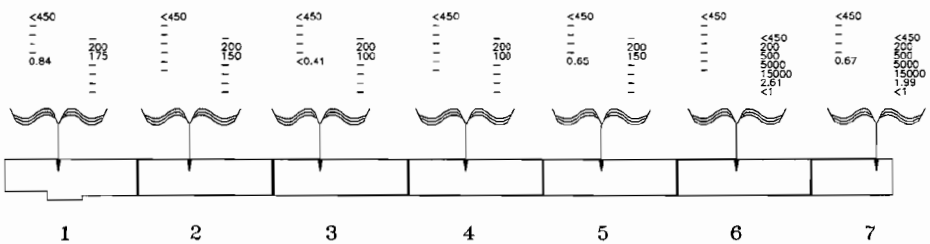
e. Localized Grid Maps (Service Galleries)



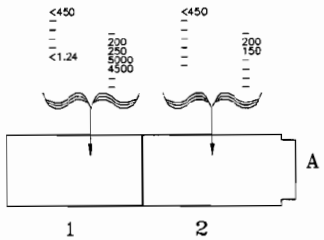
S.G. #10



S.G. #12



S.G. #8



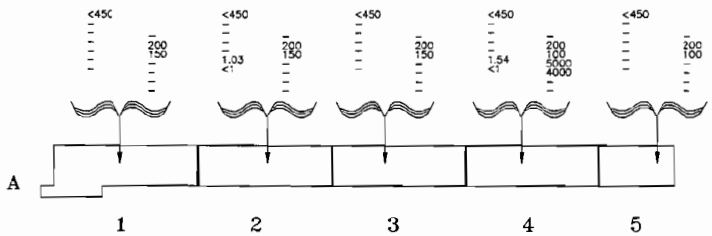
S.G. #8A

Sample Data

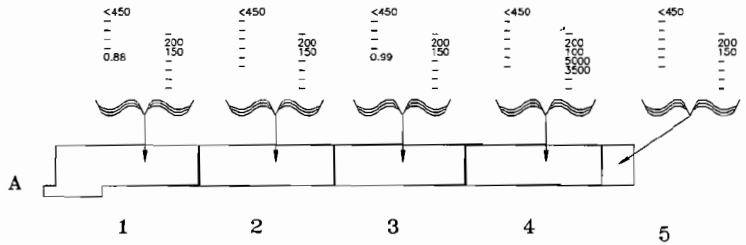
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

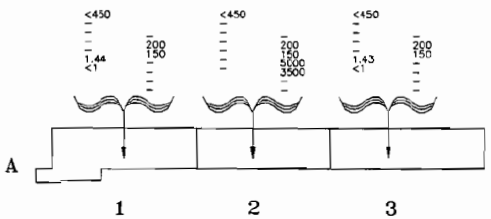
e. Localized Grid Maps (Service Galleries)



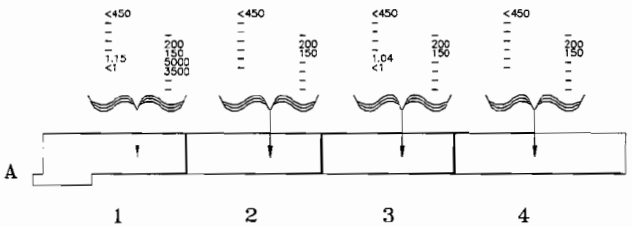
S.G. #5



S.G. #7



S.G. #1



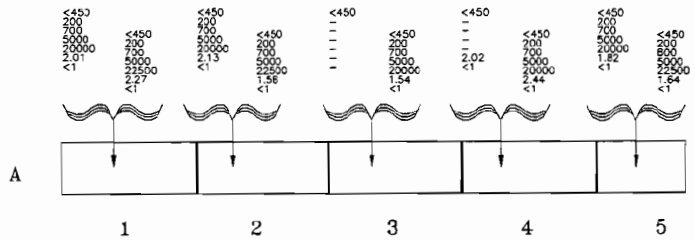
S.G. #3

Sample Data

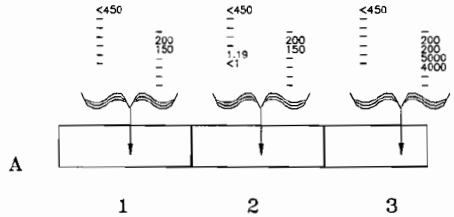
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (Service Galleries)



S.G. #11



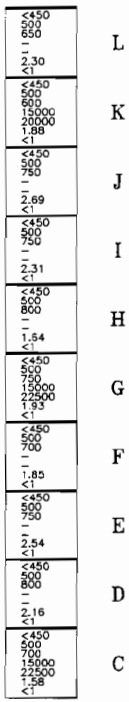
S.G. #9

Sample Data

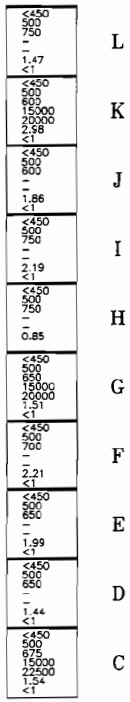
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

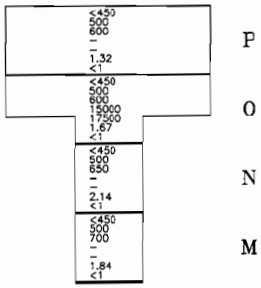
e. Localized Grid Maps (Water Collection Troughs)



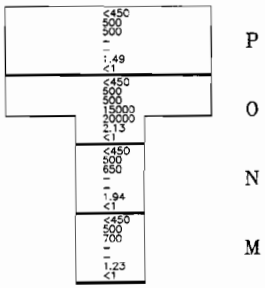
SOUTH TROUGH



NORTH TROUGH



SOUTH TROUGH



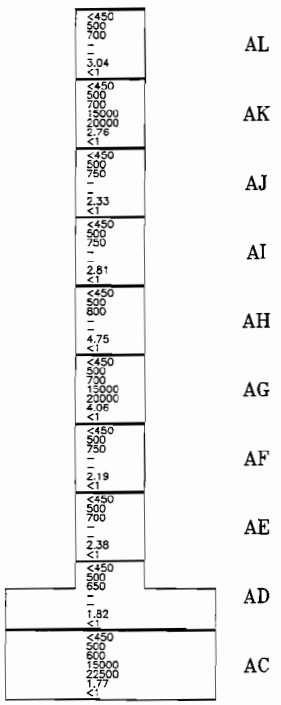
NORTH TROUGH

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

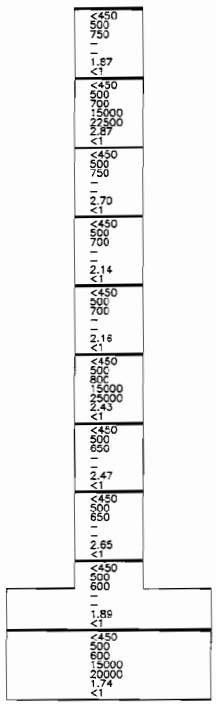
Sample Data
<450 – IM-247/PD Results [μCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

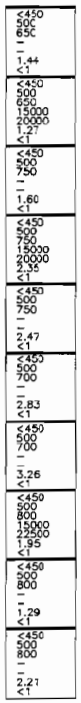
e. Localized Grid Maps (Water Collection Troughs)



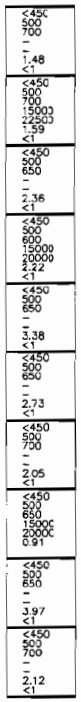
SOUTH TROUGH



NORTH TROUGH



SOUTH TROUGH



NORTH TROUGH

Notes:
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.]
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]

2. Dry Dock 2

e. Localized Grid Maps (Water Collection Troughs)

	SOUTH TROUGH	NORTH TROUGH	SOUTH TROUGH	NORTH TROUGH
	<450 500 650 – – 1.47 <1	<450 500 700 – – 1.90 <1	<450 500 800 – – 2.20 <1	<450 500 750 – – 1.29 <1
BF	BF	BF	BP	BP
	<450 500 650 – – 2.18 <1	<450 500 650 – – 2.11 <1	<450 500 800 15000 25000 2.03 <1	<450 500 650 15000 20000 1.74 <1
BE	BE	BE	BO	BO
	<450 500 650 – – 1.61 <1	<450 500 700 – – 1.44 <1	<450 500 650 – – 1.88 <1	<450 500 800 – – 1.24 <1
BD	BD	BD	BN	BN
	<450 500 850 15000 20000 2.62 <1	<450 500 600 15000 20000 1.84 <1	<450 500 800 – – 2.51 <1	<450 500 750 – – 1.86 <1
BC	BC	BC	BM	BM
	<450 500 650 – – 2.08 <1	<450 500 650 – – 2.70 <1	<450 500 800 – – 1.74 <1	<450 500 800 – – 1.79 <1
BB	BB	BB	BL	BL
	<450 500 750 – – 4.38 <1	<450 500 750 – – 1.80 <1	<450 500 800 15000 25000 1.51 <1	<450 500 750 15000 20000 2.29 <1
BA	BA	BA	BK	BK
	<450 500 750 – – 2.08 <1	<450 500 800 – – 2.67 <1	<450 500 800 – – 1.59 <1	<450 500 700 – – 2.42 <1
AZ	AZ	AZ	BJ	BJ
	<450 500 700 15000 20000 1.23 <1	<450 500 800 15000 22500 2.16 <1	<450 500 650 – – 2.72 <1	<450 500 750 – – 1.55 <1
AY	AY	AY	BI	BI
	<450 500 750 – – 2.21 <1	<450 500 750 – – 1.49 <1	<450 500 700 – – 1.93 <1	<450 500 700 – – 1.40 <1
AX	AX	AX	BH	BH
	<450 500 800 – – 1.57 <1	<450 500 750 – – 4.33 <1	<450 500 650 15000 20000 1.78 <1	<450 500 650 15000 20000 2.40 <1
AW	AW	AW	BG	BG

Notes:
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.]
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]

2. Dry Dock 2

e. Localized Grid Maps (Water Collection Troughs)

<450 500 750 – – 1.46 <1	BZ	
<450 500 700 – – 1.84 <1	BY	
<450 500 700 – – 1.80 <1	BX	
<450 500 700 15000 22500 1.82 <1	BW	
<450 500 700 – – 1.74 <1	BV	
<450 500 650 – – 2.12 <1	BU	
<450 500 750 – – 1.84 <1	BT	
<450 500 800 15000 25000 1.55 <1	BS	
<450 500 800 – – 1.71 <1	BR	
<450 500 800 – – 1.69 <1	BQ	

SOUTH TROUGH

<450 500 750 – – 1.96 <1	BZ	
<450 500 800 – – 1.80 <1	BY	
<450 500 700 – – 1.86 <1	BX	
<450 500 800 15000 20000 1.64 <1	BW	
<450 500 750 – – 1.75 <1	BV	
<450 500 700 – – 1.14 <1	BU	
<450 500 800 – – 1.39 <1	BT	
<450 500 750 15000 20500 0.76	BS	
<450 500 750 – – 1.30 <1	BR	
<450 500 800 – – 1.42 <1	BQ	

NORTH TROUGH

<450 500 650 – – 1.55 <1	CJ	
<450 500 700 15000 25000 1.53 <1	CI	
<450 500 600 – – 1.65 <1	CH	
<450 500 700 – – 1.47 <1	CG	
<450 500 700 – – 1.42 <1	CF	
<450 500 650 15000 25000 1.26 <1	CE	
<450 500 750 – – 1.84 <1	CD	
<450 500 750 – – 1.66 <1	CC	
<450 500 650 – – 1.50 <1	CB	
<450 500 650 15000 22500 1.76 <1	CA	

SOUTH TROUGH

<450 500 750 – – 1.85 <1	CJ	
<450 500 700 15000 25000 1.54 <1	CI	
<450 500 750 – – 2.39 <1	CH	
<450 500 750 – – 1.53 <1	CG	
<450 500 700 – – 1.87 <1	CF	
<450 500 700 15000 25000 1.87 <1	CE	
<450 500 800 – – 1.36 <1	CD	
<450 500 750 – – 1.93 <1	CC	
<450 500 650 – – 1.53 <1	CB	
<450 500 750 15000 20000 1.44 <1	CA	

NORTH TROUGH

Notes:
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 [$\mu\mu$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]

2. Dry Dock 2

e. Localized Grid Maps (Water Collection Troughs)

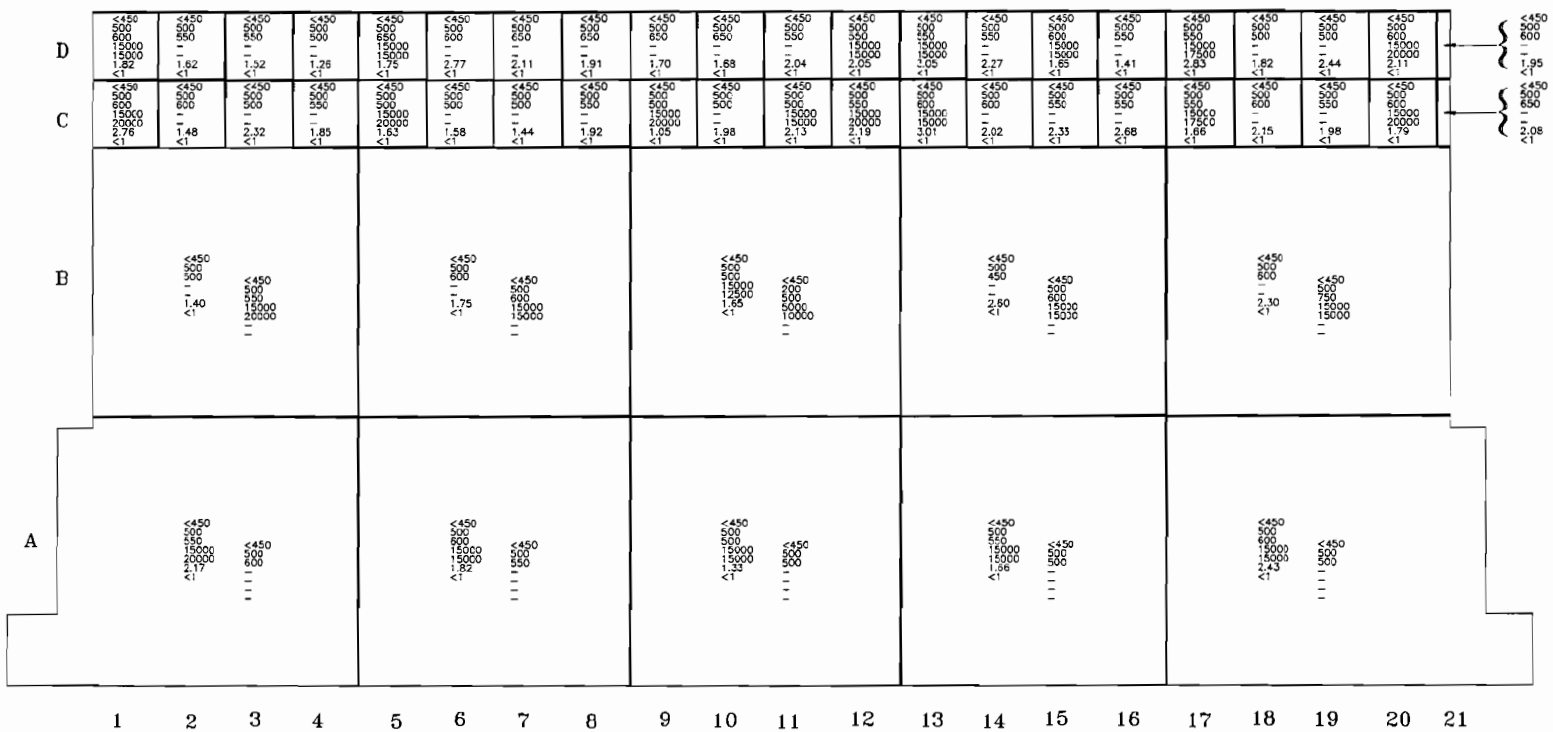
	SOUTH TROUGH	NORTH TROUGH	SOUTH TROUGH	NORTH TROUGH
CT	<450 500 750 – – 1.52 <1	<450 500 750 – – 1.39 <1		
CS	<450 500 700 – – 1.62 <1	<450 500 700 – – 1.58 <1		
CR	<450 500 700 – – 0.98	<450 500 800 – – 1.42 <1		
CQ	<450 500 700 15000 25000 1.33 <1	<450 500 700 15000 27500 1.72 <1		
CP	<450 500 700 – – 1.78 <1	<450 500 700 – – 1.56 <1		
CO	<450 500 700 – – 1.83 <1	<450 500 750 – – 1.10 <1		
CN	<450 500 700 – – 1.84 <1	<450 500 600 – – 2.01 <1	<450 500 850 – – 2.28 <1	<450 500 800 – – 1.91 <1
CM	<450 500 750 15000 27500 1.01 <1	<450 500 650 15000 20000 1.02 <1	<450 500 800 – – 2.24 <1	<450 500 700 – – 2.29 <1
CL	<450 500 750 – – 1.82 <1	<450 500 750 – – 1.54 <1	<450 500 750 – – 1.65 <1	<450 500 800 – – 1.67 <1
CK	<450 500 700 – – 2.36 <1	<450 500 750 – – 1.47 <1	<450 500 900 15000 25000 2.16 <1	<450 500 700 15000 27500 1.97 <1

Notes:
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 [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]

2. Dry Dock 2

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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
N	<450 500 550 15000 20000 1.22 <1	<450 500 500 – – 1.02 <1	<450 500 300 15000 20000 2.28 <1	<450 500 600 – – 1.49 <1	<450 500 600 15000 20000 3.52 <1	<450 500 500 – – 1.63 <1	<450 500 500 15000 15000 1.56 <1	<450 500 500 – – 1.52 <1	<450 500 550 15000 15000 3.08 <1	<450 500 500 – – 1.43 <1	<450 500 500 – – 1.94 <1	<450 500 550 – – 2.70 <1	<450 500 600 15000 15000 2.77 <1	<450 500 600 – – 2.07 <1	<450 500 500 15000 15000 1.71 <1	<450 500 500 – – 2.23 <1	<450 500 550 – – 3.45 <1	<450 500 500 – – 1.20 <1	<450 500 500 – – 3.11 <1	<450 500 550 – – 1.70 <1	<450 500 600 – – 2.59 <1
M	<450 500 500 15000 20000 1.54 <1	<450 500 500 15000 15000 1.78 <1	<450 500 500 – – 1.73 <1	<450 500 550 15000 15000 1.67 <1	<450 500 500 – – 1.63 <1	<450 500 500 15000 15000 2.89 <1	<450 500 500 – – 1.52 <1	<450 500 500 15000 15000 0.63 <1	<450 500 550 – – 1.49 <1	<450 500 550 15000 15000 1.35 <1	<450 500 425 15000 15000 1.24 <1	<450 500 500 – – 1.08 <1	<450 500 550 – – 3.69 <1	<450 500 500 – – 3.05 <1	<450 500 500 15000 15000 0.69 <1	<450 500 500 – – 1.56 <1	<450 500 500 – – 4.70 <1	<450 500 550 – – 1.64 <1	<450 500 550 15000 17500 2.73 <1	<450 500 550 – – 2.98 <1	<450 500 600 – – 2.90 <1
L	<450 500 500 15000 20000 1.47 <1	<450 500 400 – – 1.02 <1	<450 500 550 – – 1.32 <1	<450 500 500 – – 1.58 <1	<450 500 500 15000 15000 2.01 <1	<450 500 500 – – 2.96 <1	<450 500 550 – – 4.18 <1	<450 500 500 – – 1.79 <1	<450 500 500 – – 2.88 <1	<450 500 500 – – 2.25 <1	<450 500 550 – – <0.58	<450 500 550 – – <0.61	<450 500 500 15000 15000 0.83	<450 500 500 – – 1.77 <1	<450 500 500 15000 15000 3.63	<450 500 500 – – 2.22 <1	<450 500 500 – – 2.49 <1	<450 500 550 – – 1.98 <1	<450 500 500 – – 2.62 <1	<450 500 600 – – 2.58 <1	<450 500 600 – – 2.22 <1
K	<450 500 600 15000 20000 1.20 <1	<450 500 550 – – 1.48 <1	<450 500 500 – – 1.47 <1	<450 500 550 – – 1.98 <1	<450 500 550 15000 20000 1.84 <1	<450 500 500 – – 1.96 <1	<450 500 500 – – 2.03 <1	<450 500 500 – – 4.92 <1	<450 500 500 15000 20000 4.79 <1	<450 500 500 – – 2.40 <1	<450 500 400 15000 15000 3.05 <1	<450 500 450 – – 1.91 <1	<450 500 400 – – 1.82 <1	<450 500 450 – – 2.20 <1	<450 500 500 15000 15000 1.68 <1	<450 500 500 – – 2.04 <1	<450 500 550 – – 1.81 <1	<450 500 600 – – 1.97 <1	<450 500 600 15000 15000 2.63 <1	<450 500 600 – – 1.83 <1	<450 500 600 – – 1.80 <1
J	<450 500 600 15000 20000 2.00 <1	<450 500 500 – – 1.04 <1	<450 500 500 – – 0.76 <1	<450 500 550 – – 2.44 <1	<450 500 600 15000 15000 2.31 <1	<450 500 400 – – 1.13 <1	<450 500 400 – – 1.00 <1	<450 500 550 – – 2.35 <1	<450 500 350 – – 1.86 <1	<450 500 350 – – 2.65 <1	<450 500 550 15000 15000 1.90 <1	<450 500 550 15000 15000 2.29 <1	<450 500 575 – – 2.36 <1	<450 500 500 – – 1.87 <1	<450 500 500 – – 2.06 <1	<450 500 550 15000 15000 1.10 <1	<450 500 600 – – 2.19 <1	<450 500 650 15000 17500 1.85 <1	<450 500 600 – – 2.74 <1	<450 500 650 15000 17500 1.46 <1	<450 500 700 – – 1.81 <1
I	<450 500 700 15000 20000 2.03 <1	<450 500 450 – – 1.97 <1	<450 500 450 – – 1.08 <1	<450 500 500 – – 2.32 <1	<450 500 500 15000 15000 2.27 <1	<450 500 550 – – 2.13 <1	<450 500 500 – – 2.38 <1	<450 500 450 – – 3.09 <1	<450 500 500 15000 15000 1.27 <1	<450 500 450 – – 1.93 <1	<450 500 600 15000 15000 1.80 <1	<450 500 550 15000 15000 1.83 <1	<450 500 500 15000 15000 2.48 <1	<450 500 500 – – 2.72 <1	<450 500 500 15000 15000 1.60 <1	<450 500 600 – – 1.93 <1	<450 500 650 15000 12500 2.25 <1	<450 500 600 – – 2.04 <1	<450 500 650 15000 17500 1.73 <1	<450 500 700 – – 1.86 <1	<450 500 800 – – 4.18 <1
H	<450 500 700 15000 20000 1.89 <1	<450 500 500 – – 2.28 <1	<450 500 550 – – 1.10 <1	<450 500 500 – – 3.20 <1	<450 500 450 15000 15000 1.29 <1	<450 500 550 – – 1.59 <1	<450 500 550 – – 2.22 <1	<450 500 550 – – 1.51 <1	<450 500 350 – – 1.37 <1	<450 500 500 – – 1.99 <1	<450 500 600 – – 3.15 <1	<450 500 500 – – 2.18 <1	<450 500 600 15000 15000 1.65 <1	<450 500 550 – – 1.42 <1	<450 500 600 15000 15000 1.93 <1	<450 500 650 – – 2.08 <1	<450 500 650 – – 2.29 <1	<450 500 550 – – 1.90 <1	<450 500 600 – – 2.10 <1	<450 500 550 – – 2.28 <1	<450 500 550 – – 2.74 <1
G	<450 500 600 15000 20000 1.91 <1	<450 500 500 – – 1.97 <1	<450 500 500 – – 1.67 <1	<450 500 450 – – 1.92 <1	<450 500 450 15000 15000 1.63 <1	<450 500 450 – – 2.24 <1	<450 500 500 – – 1.43 <1	<450 500 400 – – 1.59 <1	<450 500 500 15000 15000 2.17 <1	<450 500 500 – – 0.98 <1	<450 500 525 15000 15000 2.46 <1	<450 500 450 – – 2.14 <1	<450 500 450 – – 1.84 <1	<450 500 450 – – 3.08 <1	<450 500 500 15000 15000 1.89 <1	<450 500 500 – – 1.95 <1	<450 500 525 – – 2.63 <1	<450 500 525 – – 1.83 <1	<450 500 700 15000 20000 2.07 <1	<450 500 850 – – 2.21 <1	<450 500 700 – – 1.89 <1
F	<450 500 650 15000 20000 3.65 <1	<450 500 650 – – 1.45 <1	<450 500 600 – – 2.82 <1	<450 500 550 – – 1.97 <1	<450 500 550 15000 15000 2.40 <1	<450 500 550 – – 1.50 <1	<450 500 500 – – 1.40 <1	<450 500 500 – – 2.08 <1	<450 500 500 – – 1.41 <1	<450 500 500 – – 2.23 <1	<450 500 500 – – 2.27 <1	<450 500 450 – – 2.36 <1	<450 500 450 15000 15000 2.37 <1	<450 500 500 – – 3.02 <1	<450 500 550 15000 17500 3.58 <1	<450 500 550 – – 2.27 <1	<450 500 550 – – 1.12 <1	<450 500 500 – – 2.10 <1	<450 500 500 – – 1.97 <1	<450 500 550 – – 3.26 <1	<450 500 550 – – 1.86 <1
E	<450 500 600 15000 20000 1.88 <1	<450 500 600 – – 1.35 <1	<450 500 600 – – 2.32 <1	<450 500 550 – – 2.06 <1	<450 500 500 15000 15000 2.25 <1	<450 500 550 – – 1.98 <1	<450 500 550 – – 1.80 <1	<450 500 500 – – 2.37 <1	<450 500 600 15000 15000 4.01 <1	<450 500 500 – – 2.44 <1	<450 500 550 15000 15000 2.17 <1	<450 500 500 – – 2.33 <1	<450 500 550 – – 2.43 <1	<450 500 500 – – 1.48 <1	<450 500 500 15000 15000 2.86 <1	<450 500 500 – – 2.21 <1	<450 500 550 – – 2.07 <1	<450 500 600 – – 2.47 <1	<450 500 600 15000 20000 1.64 <1	<450 500 650 – – 2.01 <1	<450 500 650 – – 1.88 <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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
X	<450 500 650 15000 22500 1.37 <1	<450 500 600 – – 2.27 <1	<450 500 600 – – 2.31 <1	<450 500 650 – – 1.85 <1	<450 500 400 15000 17500 3.32 <1	<450 500 450 – – 2.83 <1	<450 500 500 – – 2.13 <1	<450 500 600 – – 1.77 <1	<450 500 550 – – 2.88 <1	<450 500 550 – – 2.27 <1	<450 500 500 – – 3.45 <1	<450 500 550 – – 1.67 <1	<450 500 400 15000 15000 1.59 <1	<450 500 550 – – 1.83 <1	<450 500 450 15000 15000 1.69 <1	<450 500 500 – – 1.75 <1	<450 500 600 – – 2.71 <1	<450 500 450 – – 2.20 <1	<450 500 450 – – 1.90 <1	<450 500 650 – – 1.65 <1	<450 500 600 – – 2.62 <1
W	<450 500 650 15000 20000 2.02 <1	<450 500 600 – – 2.05 <1	<450 500 550 – – 2.17 <1	<450 500 600 – – 2.10 <1	<450 500 400 15000 17500 2.47 <1	<450 500 550 – – 1.87 <1	<450 500 450 – – 1.11 <1	<450 500 400 – – 2.14 <1	<450 500 400 15000 15000 1.77 <1	<450 500 500 – – 2.73 <1	<450 500 600 15000 15000 2.47 <1	<450 500 550 – – 1.90 <1	<450 500 400 – – 2.32 <1	<450 500 400 – – 1.89 <1	<450 500 500 15000 15000 1.91 <1	<450 500 500 – – 1.90 <1	<450 500 550 – – 2.18 <1	<450 500 550 – – 2.64 <1	<450 500 500 15000 15000 2.37 <1	<450 500 550 – – 1.81 <1	<450 500 550 – – 1.48 <1
V	<450 500 600 15000 20000 1.52 <1	<450 500 600 – – 1.30 <1	<450 500 600 – – 2.08 <1	<450 500 650 – – 1.41 <1	<450 500 500 15000 15000 1.87 <1	<450 500 550 – – 2.16 <1	<450 500 500 – – 2.24 <1	<450 500 400 – – 1.87 <1	<450 500 400 – – 2.44 <1	<450 500 500 – – 2.76 <1	<450 500 400 – – 2.13 <1	<450 500 550 – – 2.41 <1	<450 500 500 15000 15000 2.24 <1	<450 500 450 – – 2.37 <1	<450 500 500 15000 15000 1.78 <1	<450 500 550 – – 2.18 <1	<450 500 600 – – 2.11 <1	<450 500 500 – – 2.24 <1	<450 500 550 – – 2.19 <1	<450 500 500 – – 2.29 <1	<450 500 600 – – 1.77 <1
U	<450 500 750 15000 20000 2.42 <1	<450 500 500 – – 1.95 <1	<450 500 525 – – – –	<450 500 650 – – 2.19 <1	<450 500 600 15000 15000 2.02 <1	<450 500 500 – – 2.39 <1	<450 500 550 – – 2.23 <1	<450 500 400 – – 1.63 <1	<450 500 400 15000 12500 2.67 <1	<450 500 425 – – 2.36 <1	<450 500 550 15000 17500 3.10 <1	<450 500 550 – – 2.41 <1	<450 500 500 – – 2.60 <1	<450 500 500 – – 2.24 <1	<450 500 550 15000 17500 2.26 <1	<450 500 600 – – 2.31 <1	<450 500 650 – – 2.07 <1	<450 500 600 – – 2.03 <1	<450 500 550 15000 15000 2.48 <1	<450 500 550 – – 2.38 <1	<450 500 600 – – 2.40 <1
T	<450 500 650 15000 20000 1.39 <1	<450 500 550 – – 1.46 <1	<450 500 550 – – 2.60 <1	<450 500 550 – – 1.50 <1	<450 500 600 15000 15000 2.35 <1	<450 500 500 – – 1.96 <1	<450 500 600 – – 3.12 <1	<450 500 550 – – 2.15 <1	<450 500 600 – – 1.99 <1	<450 500 500 – – 1.90 <1	<450 500 500 – – 1.90 <1	<450 500 500 15000 15000 2.78 <1	<450 500 500 – – 2.23 <1	<450 500 550 15000 15000 2.73 <1	<450 500 550 – – 2.09 <1	<450 500 500 15000 17500 2.34 <1	<450 500 500 – – 2.42 <1	<450 500 500 15000 17500 2.00 <1	<450 500 500 – – 2.33 <1	<450 500 450 15000 20000 1.47 <1	<450 500 650 – – 2.92 <1
S	<450 500 550 15000 15000 1.73 –	<450 500 625 – – – –	<450 500 650 – – – –	<450 500 550 – – 1.33 <1	<450 500 500 15000 15000 2.15 <1	<450 500 450 – – 2.02 <1	<450 500 450 – – 2.16 <1	<450 500 500 – – 1.97 <1	<450 500 550 15000 15000 2.23 <1	<450 500 550 – – 3.77 <1	<450 500 600 15000 20000 1.94 <1	<450 500 600 – – 2.54 <1	<450 500 600 15000 17500 1.97 <1	<450 500 650 – – 1.49 <1	<450 500 600 15000 17500 1.46 <1	<450 500 600 – – 1.88 <1	<450 500 650 15000 17500 1.62 <1	<450 500 500 – – 1.72 <1	<450 500 350 15000 8000 – –	<450 500 550 – – 1.97 <1	<450 500 600 – – 2.08 <1
R	<450 500 600 15000 20000 2.03 <1	<450 500 600 – – 1.28 <1	<450 500 500 – – 2.71 <1	<450 500 500 – – 2.16 <1	<450 500 600 15000 15000 2.43 <1	<450 500 500 – – 2.24 <1	<450 500 500 – – 1.93 <1	<450 500 500 – – 2.41 <1	<450 500 550 – – 2.48 <1	<450 500 550 – – 2.90 <1	<450 500 550 – – 1.90 <1	<450 500 550 – – 2.88 <1	<450 500 600 15000 15000 2.42 <1	<450 500 600 – – 2.36 <1	<450 500 500 15000 15000 1.24 <1	<450 500 500 – – 1.62 <1	<450 500 600 – – 1.54 <1	<450 500 600 – – 2.25 <1	<450 500 650 – – 2.38 <1	<450 500 650 – – 2.35 <1	<450 500 650 – – 2.29 <1
Q	<450 500 750 15000 22500 1.39 <1	<450 500 700 – – 1.70 <1	<450 500 600 – – 1.68 <1	<450 500 650 – – 1.13 <1	<450 500 700 15000 17500 1.95 <1	<450 500 650 – – 2.02 <1	<450 500 600 – – 1.75 <1	<450 500 550 – – 2.17 <1	<450 500 600 15000 15000 2.68 <1	<450 500 500 – – 2.05 <1	<450 500 500 15000 17500 3.09 <1	<450 500 500 – – 2.00 <1	<450 500 500 – – 2.05 <1	<450 500 500 – – 3.50 <1	<450 500 500 15000 17500 3.06 <1	<450 500 500 – – 2.97 <1	<450 500 500 – – 2.09 <1	<450 500 500 – – 2.51 <1	<450 500 500 15000 20000 1.80 <1	<450 500 650 – – 1.86 <1	<450 500 700 – – 2.43 <1
P	<450 500 600 15000 20000 2.06 <1	<450 500 600 – – 1.45 <1	<450 500 500 – – 1.70 <1	<450 500 500 – – 0.97 –	<450 500 550 15000 15000 1.84 <1	<450 500 550 – – 1.76 <1	<450 500 550 – – 1.13 <1	<450 500 550 – – 0.49 –	<450 500 500 – – 2.81 <1	<450 500 600 – – 2.75 <1	<450 500 600 15000 15000 1.91 <1	<450 500 600 – – 1.79 <1	<450 500 625 15000 17500 2.10 <1	<450 500 650 – – 1.73 <1	<450 500 650 15000 17500 2.09 <1	<450 500 500 – – 1.92 <1	<450 500 550 15000 15000 2.30 <1	<450 500 550 – – 2.30 <1	<450 500 500 15000 15000 2.77 <1	<450 500 500 – – 2.00 <1	<450 500 500 – – 1.05 <1
O	<450 500 600 15000 20000 2.45	<450 500 600 – – 1.51	<450 500 500 – – 1.99	<450 500 500 – – 2.17	<450 500 550 15000 20000 1.72	<450 500 550 – – 1.83	<450 500 550 – – 1.64	<450 500 500 – – 2.54	<450 500 500 15000 15000 2.07	<450 500 500 – – 1.92	<450 500 500 15000 15000 2.04	<450 500 500 15000 15000 1.98	<450 500 500 15000 15000 2.30	<450 500 500 – – 1.62	<450 500 450 15000 17500 1.99	<450 500 500 – – 2.16	<450 500 500 15000 15000 1.75	<450 500 550 – – 1.56	<450 500 600 – – 2.09	<450 500 600 15000 15000 2.42	<450 500 700 – – 1.61

Note:

(1) Grids S-2, S-3 and U-3 show high readings and are unpainted metal. Elevated readings are attributed to high natural radioactivity levels in the aggregate beneath the metal.

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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
AH	<450 500 600 – – 0.64	<450 500 550 15000 20000 1.27 <1	<450 500 500 – – 1.23 <1	<450 500 600 15000 20000 <0.54	<450 500 600 – – 1.80 <1	<450 500 500 15000 15000 1.35 <1	<450 500 500 – – 1.44 <1	<450 500 550 15000 15000 1.84 <1	<450 500 500 – – 1.01 <1	<450 500 400 15000 15000 1.48 <1	<450 500 600 – – 0.92 <1	<450 500 600 – – 1.59 <1	<450 500 600 15000 15000 1.64 <1	<450 500 450 – – 1.47 <1	<450 500 500 15000 15000 1.07 <1	<450 500 500 – – 2.02 <1	<450 500 600 – – 1.27 <1	<450 500 450 – – 1.31 <1	<450 500 500 – – 1.07 <1	<450 500 450 – – 1.16 <1	<450 500 650 – – 1.61 <1
AG	<450 500 550 15000 20000 3.17 <1	<450 500 500 – – 0.86	<450 500 550 15000 17500 2.04 <1	<450 500 600 – – 1.06 <1	<450 500 550 15000 20000 1.17 <1	<450 500 600 – – 1.39 <1	<450 500 600 15000 20000 <0.46 <1	<450 500 500 – – 1.42 <1	<450 500 600 15000 20000 1.27 <1	<450 500 500 – – 1.54 <1	<450 500 550 15000 20000 1.64 <1	<450 500 600 – – 3.12 <1	<450 500 600 – – 2.39 <1	<450 500 600 – – 1.59 <1	<450 500 500 15000 20000 0.96 <1	<450 500 550 – – 1.48 <1	<450 500 600 – – 1.70 <1	<450 500 550 – – 1.85 <1	<450 500 600 15000 17500 1.44 <1	<450 500 550 – – 1.45 <1	<450 500 600 – – 1.57 <1
AF	<450 500 450 – – 1.80 <1	<450 500 450 15000 20000 1.99 <1	<450 500 550 – – 1.27 <1	<450 500 550 15000 15000 1.61 <1	<450 500 550 – – 1.53 <1	<450 500 600 15000 15000 1.39 <1	<450 500 500 – – 1.76 <1	<450 500 600 15000 12500 <0.48 <1	<450 500 500 – – 1.56 <1	<450 500 550 15000 15000 1.31 <1	<450 500 450 – – 1.07 <1	<450 500 500 – – 1.85 <1	<450 500 500 15000 15000 1.88 <1	<450 500 400 – – 1.50 <1	<450 500 500 15000 15000 1.69 <1	<450 500 550 – – 1.99 <1	<450 500 600 – – 1.45 <1	<450 500 600 – – <0.47	<450 500 600 – – 1.23 <1	<450 500 600 – – 1.80 <1	<450 500 600 – – 1.22 <1
AE	<450 500 600 15000 20000 2.69 <1	<450 500 600 – – 1.71 <1	<450 500 600 15000 15000 1.87 <1	<450 500 575 – – 2.22 <1	<450 500 525 15000 17500 2.28 <1	<450 500 550 – – 2.07 <1	<450 500 475 15000 15000 1.92 <1	<450 500 600 – – 1.63 <1	<450 500 475 15000 15000 2.15 <1	<450 500 500 – – 2.05 <1	<450 500 475 15000 17500 1.62 <1	<450 500 450 – – 1.58 <1	<450 500 450 – – 1.59 <1	<450 500 475 – – 1.90 <1	<450 500 500 15000 17500 2.20 <1	<450 500 450 – – 1.78 <1	<450 500 550 – – 1.92 <1	<450 500 550 – – 1.90 <1	<450 500 450 15000 17500 0.89 <1	<450 500 550 – – 1.33 <1	<450 500 550 – – 0.84
AD	<450 500 700 – – 1.29 <1	<450 500 600 – – 1.80 <1	<450 500 550 – – 2.01 <1	<450 500 500 – – 1.77 <1	<450 500 550 – – 1.50 <1	<450 500 550 – – 1.67 <1	<450 500 500 15000 17500 1.23 <1	<450 500 600 – – 1.48 <1	<450 500 550 15000 17500 1.85 <1	<450 500 500 – – 2.38 <1	<450 500 650 – – 1.23 <1	<450 500 450 – – 2.05 <1	<450 500 500 15000 15000 1.45 <1	<450 500 500 – – 1.24 <1	<450 500 500 15000 15000 2.10 <1	<450 500 600 – – 1.64 <1	<450 500 550 – – 1.58 <1	<450 500 500 – – 1.30 <1	<450 500 650 – – 1.79 <1	<450 500 650 – – 1.56 <1	<450 500 600 – – 2.00 <1
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AB	<450 500 600 15000 17500 1.59 <1	<450 500 600 – – 2.44 <1	<450 500 600 – – 2.25 <1	<450 500 600 – – 1.70 <1	<450 500 500 15000 20000 2.35 <1	<450 500 500 – – 1.60 <1	<450 500 500 – – 2.70 <1	<450 500 500 – – 2.01 <1	<450 500 500 – – 1.47 <1	<450 500 500 – – 1.58 <1	<450 500 600 – – 1.86 <1	<450 500 600 – – 2.12 <1	<450 500 550 15000 20000 3.13 <1	<450 500 550 – – 2.59 <1	<450 500 600 15000 20000 3.14 <1	<450 500 600 – – 2.95 <1	<450 500 550 – – 2.14 <1	<450 500 600 – – 3.49 <1	<450 500 600 – – 1.82 <1	<450 500 700 – – 2.00 <1	<450 500 700 – – 1.84 <1
AA	<450 200 600 5000 15000 0.86	<450 500 550 – – 1.49 <1	<450 500 500 – – 2.08 <1	<450 500 500 – – 1.79 <1	<450 500 500 15000 20000 1.48 <1	<450 500 500 – – 2.62 <1	<450 500 500 – – 2.39 <1	<450 500 500 – – 1.75 <1	<450 500 500 15000 20000 2.26 <1	<450 500 500 – – 2.34 <1	<450 500 550 15000 20000 2.23 <1	<450 500 600 – – 2.46 <1	<450 500 500 – – 2.09 <1	<450 500 600 – – 1.97 <1	<450 500 500 15000 20000 1.65 <1	<450 500 500 – – 1.63 <1	<450 500 600 – – 2.32 <1	<450 500 600 – – 2.82 <1	<450 500 600 15000 20000 2.14 <1	<450 500 500 – – 2.29 <1	<450 500 600 – – 3.32 <1
Z	<450 500 600 15000 20000 1.55 <1	<450 500 500 – – 1.78 <1	<450 500 450 – – 1.73 <1	<450 500 450 – – 2.45 <1	<450 500 500 15000 15000 1.73 <1	<450 500 500 – – 2.09 <1	<450 500 500 – – 1.70 <1	<450 500 500 – – 2.29 <1	<450 500 500 – – 2.44 <1	<450 500 550 – – 2.09 <1	<450 500 500 – – 2.65 <1	<450 500 500 15000 10000 2.89 <1	<450 500 500 – – 2.24 <1	<450 500 600 15000 10000 2.10 <1	<450 500 600 – – 2.20 <1	<450 500 500 15000 15000 2.38 <1	<450 500 500 – – 2.30 <1	<450 500 500 15000 15000 3.02 <1	<450 500 500 – – 2.76 <1	<450 500 600 15000 15000 1.82 <1	<450 500 700 – – 4.42 <1
Y	<450 500 650 15000 20000 1.94 <1	<450 500 600 – – 1.59 <1	<450 500 550 – – 2.21 <1	<450 500 600 – – 1.60 <1	<450 500 600 15000 15000 1.7[illegible] <1	<450 500 600 – – 1.66 <1	<450 500 600 – – 2.26 <1	<450 500 550 – – 2.82 <1	<450 500 650 15000 15000 2.53 <1	<450 500 650 – – 2.18 <1	<450 500 500 15000 15000 2.20 <1	<450 500 500 – – 1.83 <1	<450 500 600 15000 15000 1.94 <1	<450 500 550 – – 1.58 <1	<450 500 500 15000 15000 1.78 <1	<450 500 500 – – 2.09 <1	<450 500 550 15000 15000 1.91 <1	<450 500 600 – – 2.91 <1	<450 500 600 15000 15000 2.12 <1	<450 500 200 450 5000 15000 1.[illegible]3 <1	<450 500 600 – – 2.99 <1

Sample Data

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

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
AR	<450 500 500 15000 20000 2.15 <1	<450 500 450 – – 2.29 <1	<450 500 700 – – 2.02 <1	<450 500 650 – – 2.06 <1	<450 500 700 15000 15000 1.24 <1	<450 500 400 – – 1.89 <1	<450 500 400 – – 2.20 <1	<450 500 350 – – 1.00 <1	<450 500 400 – – 2.64 <1	<450 500 350 – – 2.88 <1	<450 500 500 – – 1.60 <1	<450 500 550 – – 1.32 <1	<450 500 550 15000 20000 1.57 <1	<450 500 500 – – 1.76 <1	<450 500 500 600 20000 2.09 <1	<450 500 550 – – 2.17 <1	<450 500 500 – – 2.43 <1	<450 500 500 – – 1.16 <1	<450 500 500 – – 1.21 <1	<450 500 600 – – 1.41 <1	<450 500 550 – – 1.46 <1
AQ	<450 500 650 15000 20000 5.69 <1	<450 500 625 – – 1.51 <1	<450 500 600 – – 2.10 <1	<450 500 600 – – 1.84 <1	<450 500 600 15000 17500 2.19 <1	<450 500 575 – – 2.92 <1	<450 500 550 – – 2.27 <1	<450 500 600 – – 2.37 <1	<450 500 600 15000 17500 1.61 <1	<450 500 600 – – 1.63 <1	<450 500 600 15000 17500 1.43 <1	<450 500 500 – – 1.49 <1	<450 500 550 – – 1.27 <1	<450 500 500 – – 2.11 <1	<450 500 550 15000 15000 1.86 <1	<450 500 650 – – 1.98 <1	<450 500 650 – – 1.95 <1	<450 500 650 – – 2.30 <1	<450 500 600 15000 20000 1.57 <1	<450 500 600 – – 1.51 <1	<450 500 550 – – 5.36 <1
AP	<450 500 550 15000 20000 1.93 <1	<450 500 550 – – 2.17 <1	<450 500 500 – – 2.09 <1	<450 500 550 – – 1.82 <1	<450 500 600 15000 17500 1.79 <1	<450 500 500 – – 2.23 <1	<450 500 500 – – 1.80 <1	<450 500 500 – – 2.01 <1	<450 500 550 – – 2.22 <1	<450 500 450 – – 1.68 <1	<450 500 450 – – 1.54 <1	<450 500 450 – – 1.32 <1	<450 500 450 15000 15000 0.99	<450 500 450 – – 1.26 <1	<450 500 450 15000 15000 2.32 <1	<450 500 450 – – 1.28 <1	<450 500 450 – – 1.44 <1	<450 500 450 – – 1.45 <1	<450 500 450 – – 1.58 <1	<450 500 500 – – 1.94 <1	<450 500 450 – – 1.24 <1
AO	<450 500 450 15000 20000 4.26 <1	<450 500 600 – – 1.42 <1	<450 500 650 – – 3.11 <1	<450 500 600 – – 1.60 <1	<450 500 550 15000 15000 1.87 <1	<450 500 600 – – 1.57 <1	<450 500 600 – – 1.11 <1	<450 500 625 – – 1.60 <1	<450 500 550 15000 17500 1.75 <1	<450 500 550 – – 1.75 <1	<450 500 450 15000 15000 1.92 <1	<450 500 450 – – 1.83 <1	<450 500 450 – – 2.04 <1	<450 500 400 – – 1.29 <1	<450 500 450 15000 15000 1.22 <1	<450 500 500 – – 2.11 <1	<450 500 450 – – 1.15 <1	<450 500 450 – – 1.72 <1	<450 500 500 15000 17500 1.29 <1	<450 500 550 – – 2.11 <1	<450 500 600 – – 1.87 <1
AN	<450 500 650 15000 17500 1.44 <1	<450 500 600 – – 1.00 <1	<450 500 600 – – 1.81 <1	<450 500 600 – – 1.78 <1	<450 500 550 15000 17500 1.35 <1	<450 500 550 – – 1.51 <1	<450 500 500 – – 1.53 <1	<450 500 525 – – 1.65 <1	<450 500 525 – – 1.79 <1	<450 500 500 – – 1.45 <1	<450 500 575 – – 1.03 <1	<450 500 500 – – 5.22 <1	<450 500 550 15000 17500 1.60 <1	<450 500 550 – – <0.50 <1	<450 500 500 15000 20000 1.56 <1	<450 500 550 – – 0.99 <1	<450 500 550 – – 0.75 <1	<450 500 550 – – 1.61 <1	<450 500 550 – – 1.29 <1	<450 500 650 – – 0.75 <1	<450 500 600 – – 1.78 <1
AM	<450 500 600 15000 20000 1.14 <1	<450 500 600 – – 1.22 <1	<450 500 500 – – 1.26 <1	<450 500 500 – – 1.51 <1	<450 500 500 15000 15000 1.21 <1	<450 500 500 – – 1.69 <1	<450 500 500 – – 1.34 <1	<450 500 500 – – 1.73 <1	<450 500 550 15000 15000 1.64 <1	<450 500 450 – – 1.24 <1	<450 500 500 15000 10000 1.24 <1	<450 500 450 – – 1.93 <1	<450 500 400 – – 2.29 <1	<450 500 500 – – 1.90 <1	<450 500 450 15000 15000 2.00 <1	<450 500 400 – – 1.74 <1	<450 500 450 – – 2.16 <1	<450 500 600 – – 2.73 <1	<450 500 500 15000 17500 1.92 <1	<450 500 550 – – 1.61 <1	<450 500 600 – – 1.27 <1
AL	<450 500 500 15000 15000 1.87 <1	<450 500 500 – – 2.26 <1	<450 500 600 – – 1.68 <1	<450 500 600 – – 0.92	<450 500 575 15000 20000 1.75 <1	<450 500 625 – – 1.91 <1	<450 500 675 – – 2.02 <1	<450 500 625 – – 1.29 <1	<450 500 600 – – 1.01 <1	<450 500 500 – – 2.30 <1	<450 500 500 – – 1.10 <1	<450 500 500 – – 1.58 <1	<450 500 500 15000 15000 1.43 <1	<450 500 500 – – 1.23 <1	<450 500 500 15000 15000 2.06 <1	<450 500 450 – – 2.52 <1	<450 500 500 – – 1.52 <1	<450 500 600 – – 1.33 <1	<450 500 600 – – 1.67 <1	<450 500 600 – – 1.27 <1	<450 500 650 – – 1.09 <1
AK	<450 500 500 15000 15000 1.88 <1	<450 500 500 – – <0.50	<450 500 600 – – 1.83 <1	<450 500 500 – – 2.00 <1	<450 500 550 15000 15000 1.76 <1	<450 500 500 – – 1.51 <1	<450 500 600 – – 1.62 <1	<450 500 600 – – 2.17 <1	<450 500 500 15000 15000 1.86 <1	<450 500 500 – – 1.86 <1	<450 500 450 15000 15000 0.79	<450 500 500 – – 1.25 <1	<450 500 550 – – 1.53 <1	<450 500 550 – – 1.63 <1	<450 500 550 15000 15000 2.15 <1	<450 500 500 – – 1.71 <1	<450 500 500 – – 0.93	<450 500 450 – – 1.72 <1	<450 500 550 15000 12000 1.78 <1	<450 500 600 – – 1.97 <1	<450 500 600 – – 2.34 <1
AJ	<450 500 500 15000 20000 2.26 <1	<450 500 500 – – 0.78	<450 500 450 – – 1.61	<450 500 500 – – 1.47 <1	<450 500 500 15000 20000 1.38 <1	<450 500 400 – – 1.78 <1	<450 500 400 – – 1.89 <1	<450 500 450 – – 2.24 <1	<450 500 400 – – 1.97 <1	<450 500 450 – – 2.06 <1	<450 500 550 – – 1.27 <1	<450 500 450 – – 1.13 <1	<450 500 500 15000 20000 1.64 <1	<450 500 500 – – 2.14 <1	<450 500 500 15000 15000 1.65 <1	<450 500 450 – – 1.55 <1	<450 500 500 – – 1.23 <1	<450 500 500 – – 1.03 <1	<450 500 450 – – 1.70 <1	<450 500 700 – – 1.40 <1	<450 500 700 – – 1.63 <1
AI	<450 500 500 15000 20000 1.00	<450 500 550 – – 1.10	<450 500 500 – – 1.05	<450 500 600 – – 1.50	<450 500 600 15000 17500 1.42	<450 500 450 – – 1.22	<450 500 450 – – 1.25	<450 500 500 – – 1.53	<450 500 550 15000 17500 1.90	<450 500 400 – – 1.71	<450 500 500 15000 15000 1.44	<450 500 500 – – 1.76	<450 500 500 – – 2.00	<450 500 500 – – 1.32	<450 500 550 15000 15000 0.92	<450 500 550 – – 1.40	<450 500 500 – – 1.90	<450 500 550 – – 2.58	<450 500 600 15000 20000 1.72	<450 500 600 – – 1.05	<450 500 600 – – 1.22

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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
BB	<450 500 500 15000 20000 1.62 <1	<450 500 400 – – 1.57 <1	<450 500 400 – – 1.46 <1	<450 500 350 – – 1.21 <1	<450 500 350 15000 15000 2.11 <1	<450 500 350 – – 1.83 <1	<450 500 500 – – 1.53 <1	<450 500 500 – – 1.37 <1	<450 500 500 – – 1.85 <1	<450 500 500 – – 1.75 <1	<450 500 500 – – 0.59	<450 500 500 – – 1.16 <1	<450 500 553 15000 15300 1.60 <1	<450 500 600 – – 1.55 <1	<450 500 600 15000 17500 1.03 <1	<450 500 600 – – 1.75 <1	<450 500 550 – – 1.59 <1	<450 500 600 – – 1.66 <1	<450 500 600 – – 1.76 <1	<450 500 700 – – 1.89 <1	<450 500 700 – – 2.00 <1
BA	<450 500 700 15000 20000 1.35 <1	<450 500 650 – – 1.60 <1	<450 500 600 – – 1.60 <1	<450 500 600 – – 1.72 <1	<450 500 550 15000 15000 1.90 <1	<450 500 350 – – 2.05 <1	<450 500 400 – – 1.00 <1	<450 500 650 – – 1.68 <1	<450 500 600 15000 15000 1.73 <1	<450 500 600 – – 1.51 <1	<450 500 600 15000 15000 1.44 <1	<450 500 550 – – 1.28 <1	<450 500 600 – – 1.97 <1	<450 500 550 – – 2.18 <1	<450 500 550 15000 17500 1.67 <1	<450 500 500 – – 1.59 <1	<450 500 550 – – 2.02 <1	<450 500 600 – – 4.48 <1	<450 500 600 15000 20000 1.98 <1	<450 500 700 – – 2.19 <1	<450 500 700 – – 5.98 <1
AZ	<450 500 600 15000 20000 1.39 <1	<450 500 450 15000 12500 0.95	<450 500 450 15000 12500 1.12 <1	<450 500 600 – – 1.66 <1	<450 500 600 15000 20000 .72 <1	<450 500 600 – – 1.92 <1	<450 500 500 – – 1.71 <1	<450 500 600 – – 1.81 <1	<450 500 600 – – 1.77 <1	<450 500 600 – – 1.92 <1	<450 500 450 – – 1.18 <1	<450 500 450 – – 1.26 <1	<450 500 553 15000 12500 1.38 <1	<450 500 500 – – 1.13 <1	<450 500 553 15000 15000 1.68 <1	<450 500 500 – – 1.65 <1	<450 500 500 – – 1.48 <1	<450 500 500 – – 1.77 <1	<450 500 550 – – 0.95	<450 500 550 – – 1.49 <1	<450 500 550 – – 4.87 <1
AY	<450 500 600 15000 20000 2.63 <1	<450 500 450 15000 12500 1.26 <1	<450 500 450 15000 12500 1.34 <1	<450 500 500 – – 2.33 <1	<450 500 500 15000 15000 1.80 <1	<450 500 500 – – 2.32 <1	<450 500 500 – – 1.97 <1	<450 500 550 – – 1.64 <1	<450 500 400 15000 15000 1.58 <1	<450 500 450 – – 1.57 <1	<450 500 550 15000 15000 1.94 <1	<450 500 500 – – 1.77 <1	<450 500 475 – – 1.57 <1	<450 500 450 – – 1.25 <1	<450 500 550 15000 15000 1.98 <1	<450 500 475 – – 1.33 <1	<450 500 600 – – 1.92 <1	<450 500 475 – – 1.34 <1	<450 500 350 15000 17500 1.03 <1	<450 500 600 – – 1.23 <1	<450 500 650 – – 2.17 <1
AX	<450 500 550 15000 17500 4.32 <1	<450 500 500 – – 1.27 <1	<450 500 600 – – 1.25 <1	<450 500 575 – – 1.35 <1	<450 500 600 15000 20000 1.93 <1	<450 500 550 – – 0.79	<450 500 550 – – 1.72 <1	<450 500 600 – – 1.65 <1	<450 500 500 – – 1.81 <1	<450 500 550 – – 1.32 <1	<450 500 500 – – 1.53 <1	<450 500 600 – – 1.84 <1	<450 500 600 15000 15000 1.07 <1	<450 500 500 – – 0.85	<450 500 500 15000 17500 1.21 <1	<450 500 500 – – 1.72 <1	<450 500 500 – – 1.69 <1	<450 500 550 – – 1.57 <1	<450 500 450 15000 12500 0.44	<450 500 600 – – 1.44 <1	<450 500 600 – – 4.19 <1
AW	<450 500 550 15000 20000 4.52 <1	<450 500 500 – – 1.13 <1	<450 500 500 – – 1.01 <1	<450 500 500 – – 1.20 <1	<450 500 550 15000 15000 1.62 <1	<450 500 500 – – 1.40 <1	<450 500 300 – – 1.71 <1	<450 500 500 – – 0.99	<450 500 550 15000 15000 0.70	<450 500 500 – – 1.06 <1	<450 500 550 15000 15000 1.44 <1	<450 500 500 – – 1.37 <1	<450 500 500 – – 1.16 <1	<450 500 500 – – 2.17 <1	<450 500 600 15000 15000 1.96 <1	<450 500 600 – – 1.25 <1	<450 500 600 – – 1.63 <1	<450 500 600 – – 0.71	<450 500 500 15000 15000 2.24 <1	<450 500 600 – – 1.56 <1	<450 500 650 – – 4.35 <1
AV	<450 500 675 15000 20000 5.50 <1	<450 500 550 – – 1.36 <1	<450 500 550 – – 1.54 <1	<450 500 550 – – 1.55 <1	<450 500 500 15000 15000 1.90 <1	<450 500 500 – – 1.53 <1	<450 500 500 – – 1.92 <1	<450 500 500 – – 1.89 <1	<450 500 500 – – 2.14 <1	<450 500 450 – – 1.53 <1	<450 500 500 – – 1.73 <1	<450 500 500 – – 2.01 <1	<450 500 500 15000 20000 2.09 <1	<450 500 500 – – 1.33 <1	<450 500 550 15000 20000 1.73 <1	<450 500 500 – – 1.77 <1	<450 500 550 – – 1.44 <1	<450 500 550 – – 1.46 <1	<450 500 550 15000 15000 1.32 <1	<450 500 600 – – 1.54 <1	<450 500 550 – – 3.22 <1
AU	<450 500 700 15000 15000 4.08 <1	<450 500 600 – – 1.08 <1	<450 500 600 – – 1.95 <1	<450 500 700 – – 1.46 <1	<450 500 400 15000 15000 1.54 <1	<450 500 400 – – 2.35 <1	<450 500 400 – – 1.17 <1	<450 500 400 – – 1.18 <1	<450 500 400 15000 15000 1.71 <1	<450 500 400 – – 0.86	<450 500 400 15000 15000 1.30 <1	<450 500 400 – – 0.88	<450 500 500 – – 1.83 <1	<450 500 500 – – 1.18 <1	<450 500 500 15000 15000 1.57 <1	<450 500 500 – – 1.45 <1	<450 500 500 – – 1.60 <1	<450 500 550 – – 1.10 <1	<450 500 500 15000 15000 1.76 <1	<450 500 700 – – 1.22 <1	<450 500 600 – – 1.85 <1
AT	<450 500 500 15000 17500 1.33 <1	<450 500 400 – – 1.27 <1	<450 500 475 – – 0.68	<450 500 450 – – 1.97 <1	<450 500 400 15000 15000 1.92 <1	<450 500 500 – – 1.59 <1	<450 500 550 – – 2.18 <1	<450 500 500 – – 1.15 <1	<450 500 550 – – 1.52 <1	<450 500 550 – – 1.29 <1	<450 500 400 – – 1.38 <1	<450 500 375 – – 1.48 <1	<450 500 350 15000 15000 1.32 <1	<450 500 450 – – 1.83 <1	<450 500 400 15000 15000 1.04 <1	<450 500 600 – – 1.75 <1	<450 500 550 – – 2.02 <1	<450 500 550 – – 1.48 <1	<450 500 500 – – 2.19 <1	<450 500 600 – – 1.24 <1	<450 500 550 – – 1.53 <1
AS	<450 500 600 15000 20000 1.45	<450 500 500 – – 0.60	<450 500 500 – – 1.15	<450 500 500 – – 1.50	<450 500 500 15000 17500 0.61	<450 500 600 – – 1.63	<450 500 600 – – .81	<450 500 500 – – 1.31	<450 500 500 15000 15000 1.09	<450 500 500 – – 0.96	<450 500 550 15000 15000 1.52	<450 500 500 – – 1.54	<450 500 550 – – 2.47	<450 500 550 – – 1.57	<450 500 500 15000 15000 1.79	<450 500 500 – – 1.34	<450 500 500 – – 2.13	<450 500 500 – – 1.66	<450 500 650 15000 20000 1.50	<450 500 600 – – 1.56	<450 500 650 – – 3.73

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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
BL	<450 500 500 15000 20000 1.52 <1	<450 500 450 15000 15000 0.90	<450 500 600 – – 1.41 <1	<450 500 600 – – 1.72 <1	<450 500 500 15000 20000 0.60	<450 500 600 – – 1.76 <1	<450 500 500 – – 0.87	<450 500 550 – – 0.91	<450 500 600 – – 1.11 <1	<450 500 600 – – 1.76 <1	<450 500 450 – – 1.81 <1	<450 500 500 – – 3.92 <1	<450 500 450 15000 20000 1.88 <1	<450 500 450 – – 1.22 <1	<450 500 450 15000 15000 1.36 <1	<450 500 450 – – 1.05 <1	<450 500 500 – – 1.63 <1	<450 500 500 – – 1.41 <1	<450 500 450 15000 15000 1.94 <1	<450 500 600 – – 2.55 <1	<450 500 600 – – 3.56 <1
BK	<450 500 550 15000 17500 1.72 <1	<450 500 600 – – 1.27 <1	<450 500 550 – – 1.53 <1	<450 500 550 – – 1.73 <1	<450 500 550 15000 15000 1.85 <1	<450 500 500 – – 1.80 <1	<450 500 550 – – 1.53 <1	<450 500 600 – – 1.57 <1	<450 500 600 15000 20000 1.15 <1	<450 500 650 – – 1.15 <1	<450 500 500 15000 20000 <0.31	<450 500 500 – – 1.11 <1	<450 500 500 – – 1.21 <1	<450 500 550 – – 1.42 <1	<450 500 600 15000 20000 2.17 <1	<450 500 550 – – 1.54 <1	<450 500 600 – – 1.92 <1	<450 500 450 – – 2.62 <1	<450 500 450 15000 15000 2.30 <1	<450 500 650 – – 0.99	<450 500 600 – – 4.88 <1
BJ	<450 500 600 15000 20000 1.60 <1	<450 500 450 15000 12500 2.51 <1	<450 500 450 15000 12500 1.43 <1	<450 500 600 – – 1.25 <1	<450 500 500 15000 20000 1.28 <1	<450 500 500 – – 1.33 <1	<450 500 500 – – 1.47 <1	<450 500 500 – – 1.94 <1	<450 500 500 – – 1.38 <1	<450 500 500 – – 1.21 <1	<450 500 500 – – 1.38 <1	<450 500 500 – – 2.07 <1	<450 500 500 15000 20000 1.61 <1	<450 500 500 – – 1.71 <1	<450 500 500 15000 20000 2.08 <1	<450 500 500 – – 2.00 <1	<450 500 500 – – 1.53 <1	<450 500 500 – – 1.58 <1	<450 500 500 – – 1.46 <1	<450 500 500 – – 2.03 <1	<450 500 500 – – 1.90 <1
B[illegible]	<450 500 550 15000 20000 5.81 <1	<450 500 530 15000 12500 1.71 <1	<450 500 600 15000 15000 2.13 <1	<450 500 650 – – 1.73 <1	<450 500 600 15000 15000 1.86 <1	<450 500 600 – – 1.83 <1	<450 500 700 – – 1.40 <1	<450 500 650 – – 1.13 <1	<450 500 650 15000 15000 1.27 <1	<450 500 600 – – 1.44 <1	<450 500 600 15000 15000 1.91 <1	<450 500 600 – – 1.83 <1	<450 500 500 – – 1.68 <1	<450 500 500 – – 1.38 <1	<450 500 550 15000 15000 2.31 <1	<450 500 550 – – 1.76 <1	<450 500 550 – – 1.78 <1	<450 500 550 – – 1.82 <1	<450 500 550 15000 20000 2.33 <1	<450 500 550 – – 2.00 <1	<450 500 550 – – 3.07 <1
BH	<450 500 550 15000 17500 1.16 <1	<450 500 490 15000 12500 1.26 <1	<450 500 450 15000 12500 1.25 <1	<450 500 550 – – 1.48 <1	<450 500 600 15000 17500 2.05 <1	<450 500 500 – – 1.29 <1	<450 500 500 – – 0.44	<450 500 550 – – 1.36 <1	<450 500 450 – – 1.19 <1	<450 500 550 – – 1.35 <1	<450 500 550 – – 1.52 <1	<450 500 600 – – 1.49 <1	<450 500 500 15000 20000 1.73 <1	<450 500 500 – – 1.78 <1	<450 500 550 15000 22500 2.21 <1	<450 500 550 – – 2.05 <1	<450 500 600 – – 2.29 <1	<450 500 600 – – 2.06 <1	<450 500 500 – – 2.36 <1	<450 500 550 – – 1.71 <1	<450 500 650 – – 2.16 <1
BG	<450 500 500 15000 17500 1.37 <1	<450 500 450 15000 12500 1.04 <1	<450 500 450 15000 12500 1.51 <1	<450 500 400 – – 1.39 <1	<450 500 450 15000 15000 2.30 <1	<450 500 400 – – 1.37 <1	<450 500 500 – – 1.98 <1	<450 500 550 – – 1.66 <1	<450 500 600 15000 15000 1.72 <1	<450 500 500 – – 1.15 <1	<450 500 500 15000 15000 1.84 <1	<450 500 500 – – 1.56 <1	<450 500 500 – – 1.62 <1	<450 500 500 – – 2.41 <1	<450 500 500 15000 15000 1.33 <1	<450 500 500 – – 2.08 <1	<450 500 400 – – 1.96 <1	<450 500 500 – – 1.41 <1	<450 500 500 15000 15000 2.04 <1	<450 500 600 – – 1.83 <1	<450 500 600 – – 2.45 <1
BF	<450 500 550 15000 17500 2.01 <1	<450 500 450 15000 15000 1.36 <1	<450 500 575 15000 15000 2.07 <1	<450 530 630 – – 2.08 <1	<450 500 450 15000 17500 1.21 <1	<450 500 550 – – 1.19 <1	<450 500 550 – – 1.87 <1	<450 500 625 – – 1.31 <1	<450 500 550 – – 0.38	<450 500 550 – – 1.88 <1	<450 500 500 – – 1.52 <1	<450 500 450 – – 1.20 <1	<450 500 500 15000 15000 1.41 <1	<450 500 450 – – 1.61 <1	<450 500 550 15000 15000 1.68 <1	<450 500 500 – – 2.12 <1	<450 500 500 – – 1.91 <1	<450 500 550 – – 1.74 <1	<450 500 550 15000 15000 1.70 <1	<450 500 600 – – 1.43 <1	<450 500 600 – – 2.96 <1
BE	<450 500 550 15000 20000 1.28 <1	<450 500 550 15000 15000 1.09 <1	<450 500 650 15000 15000 0.81 <1	<450 500 650 – – 1.22 <1	<450 500 550 15000 15000 0.92 <1	<450 500 450 – – 1.31 <1	<450 500 400 – – 1.77 <1	<450 500 450 – – 1.12 <1	<450 500 450 15000 15000 1.32 <1	<450 500 450 – – 1.50 <1	<450 500 500 15000 15000 1.15 <1	<450 500 450 – – 2.27 <1	<450 500 550 – – 1.86 <1	<450 500 500 – – 1.22 <1	<450 500 450 15000 15000 1.86 <1	<450 500 550 – – 1.87 <1	<450 500 500 – – 1.73 <1	<450 500 500 – – 1.89 <1	<450 500 450 15000 15000 1.07 <1	<450 500 600 – – 1.85 <1	<450 500 550 – – 1.68 <1
BD	<450 500 750 15000 17500 1.77 <1	<450 500 700 – – 1.78 <1	<450 500 550 – – 1.35 <1	<450 500 600 – – 1.62 <1	<450 500 550 15000 15000 1.39 <1	<450 500 550 – – 1.58 <1	<450 500 600 – – 1.30 <1	<450 500 550 – – 1.27 <1	<450 500 600 – – 1.57 <1	<450 500 500 – – 1.32 <1	<450 500 550 – – 1.23 <1	<450 500 450 – – 1.10 <1	<450 500 500 15000 15000 2.11 <1	<450 500 450 – – 1.51 <1	<450 500 500 15000 15000 1.83 <1	<450 500 550 – – 1.45 <1	<450 500 500 – – 2.05 <1	<450 500 550 – – 4.38 <1	<450 500 500 – – 1.73 <1	<450 500 600 – – 1.52 <1	<450 500 550 – – 2.57 <1
BC	<450 500 700 15000 15000 1.51	<450 500 550 – – 2.00	<450 500 650 – – 1.69	<450 500 500 – – 1.84	<450 500 550 15000 15000 1.48	<450 500 500 – – 1.78	<450 500 500 – – 2.25	<450 500 500 – – 0.87	<450 500 500 15000 20000 2.26	<450 500 600 – – 1.40	<450 500 500 15000 15000 1.32	<450 500 500 – – 1.30	<450 500 500 – – 1.74	<450 500 500 – – 1.87	<450 500 500 15000 20000 1.54	<450 500 500 – – 2.20	<450 500 500 – – 1.70	<450 500 500 – – 2.00	<450 500 500 15000 20000 2.53	<450 500 500 – – 1.33	<450 500 700 – – 1.33

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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
BV	<450 500 650 15000 20000 4.27 <1	<450 500 550 – – 1.58 <1	<450 500 550 – – 1.90 <1	<450 500 450 – – 1.65 <1	<450 500 500 15000 15000 1.72 <1	<450 500 550 – – 1.07 <1	<450 500 550 – – 2.00 <1	<450 500 500 – – 1.45 <1	<450 500 500 – – 1.26 <1	<450 500 500 – – 1.58 <1	<450 500 600 – – 1.95 <1	<450 500 600 – – 1.18 <1	<450 500 650 15000 15000 1.34 <1	<450 500 650 – – 2.13 <1	<450 500 550 15000 15000 1.57 <1	<450 500 500 – – 2.03 <1	<450 500 550 – – 1.39 <1	<450 500 500 – – 2.06 <1	<450 500 450 15000 12500 1.83 <1	<450 500 550 – – 2.03 <1	<450 500 550 – – 1.78 <1
BU	<450 500 650 15000 15000 1.37 <1	<450 500 550 – – 1.4[illegible] <1	<450 500 550 – – 2.85 <1	<450 500 550 – – 1.80 <1	<450 500 500 15000 15000 2.29 <1	<450 500 550 – – 1.58 <1	<450 500 550 – – 1.05 <1	<450 500 550 – – 1.95 <1	<450 500 500 15000 15000 1.73 <1	<450 500 500 – – 1.78 <1	<450 500 650 15000 15000 1.30 <1	<450 500 550 – – 1.47 <1	<450 500 500 – – 1.51 <1	<450 500 650 – – 1.62 <1	<450 500 650 15000 15000 [illegible].33 <1	<450 500 650 – – 0.73 <1	<450 500 650 – – 1.62 <1	<450 500 600 – – 1.35 <1	<450 500 500 15000 15000 1.93 <1	<450 500 500 – – 1.64 <1	<450 500 600 – – 2.09 <1
BT	<450 550 550 15000 15000 1.30 <1	<450 500 500 – – 1.17 <1	<450 500 550 – – 1.60 <1	<450 500 500 – – 1.45 <1	<450 500 550 15000 15000 2.06 <1	<450 500 500 – – 1.85 <1	<450 500 500 – – 1.10 <1	<450 500 550 – – 1.44 <1	<450 500 500 – – 4.47 <1	<450 500 550 – – 1.75 <1	<450 500 500 – – 1.45 <1	<450 500 500 – – 1.07 <1	<450 500 500 15000 20000 1.81 <1	<450 500 500 – – 1.26 <1	<450 500 500 15000 20000 2.43 <1	<450 500 500 – – 2.27 <1	<450 500 500 – – 1.86 <1	<450 500 500 – – 1.82 <1	<450 500 450 – – 1.82 <1	<450 500 500 – – 1.40 <1	<450 500 500 – – 4.16 <1
BS	<450 500 500 15000 15000 1.38 <1	<450 500 550 – – 1.72 <1	<450 500 500 – – 1.89 <1	<450 500 500 – – 1.88 <1	<450 500 500 15000 15000 1.11 <1	<450 500 500 – – 1.66 <1	<450 500 500 – – 1.25 <1	<450 500 550 – – 0.98 <1	<450 500 500 15000 15000 1.25 <1	<450 500 500 – – 1.35 <1	<450 500 500 15000 15000 1.48 <1	<450 500 500 – – 1.13 <1	<450 500 550 – – 1.26 <1	<450 500 500 – – 1.34 <1	<450 500 500 15000 20000 1.34 <1	<450 500 500 – – 1.86 <1	<450 500 500 – – 1.68 <1	<450 500 500 – – 1.80 <1	<450 500 500 625 – 1.80 <1	<450 500 500 15000 20000 1.80 <1	<450 500 600 – – 1.72 <1	<450 500 650 – – 1.26 <1
BR	<450 500 600 15000 20000 1.57 <1	<450 500 550 – – 2.03 <1	<450 500 550 – – 1.54 <1	<450 500 600 – – 1.72 <1	<450 500 600 15000 15000 1.79 <1	<450 500 600 – – 1.41 <1	<450 500 600 – – 1.83 <1	<450 500 600 – – 1.65 <1	<450 500 600 – – 2.17 <1	<450 500 600 – – 1.94 <1	<450 500 400 – – 1.88 <1	<450 500 600 – – 2.15 <1	<450 500 500 600 15000 2.53 <1	<450 500 600 – – 1.83 <1	<450 500 600 15000 20000 1.62 <1	<450 500 600 – – 1.89 <1	<450 500 600 – – 1.47 <1	<450 500 500 – – 1.28 <1	<450 500 600 – – 1.41 <1	<450 500 550 – – 1.30 <1	<450 500 550 – – 4.18 <1
BQ	<450 500 700 15000 20000 1.98 <1	<450 500 400 15000 12500 0.95	<450 500 450 15000 12500 1.69 <1	<450 500 500 – – 1.7[illegible] <1	<450 500 500 15000 15000 1.30 <1	<450 500 500 – – 1.05 <1	<450 500 500 – – 2.05 <1	<450 500 575 – – 1.09 <1	<450 500 500 15000 20000 1.47 <1	<450 500 500 – – 1.78 <1	<450 500 450 15000 20000 1.37 <1	<450 500 500 – – 0.87	<450 500 450 – – 0.85	<450 500 400 – – 1.51 <1	<450 500 450 15000 20000 1.33 <1	<450 500 500 – – 1.55 <1	<450 500 450 – – 1.30 <1	<450 500 500 – – [illegible].39 <1	<450 500 400 15000 15000 2.34 <1	<450 500 500 – – 1.97 <1	<450 500 500 – – 5.12 <1
BP	<450 500 750 15000 15000 4.45 <1	<450 500 450 15000 12500 2.06 <1	<450 500 650 – – 2.07 <1	<450 500 650 – – 1.33 <1	<450 500 650 15000 15000 1.81 <1	<450 500 650 – – 1.36 <1	<450 500 650 – – 1.43 <1	<450 500 600 – – 1.28 <1	<450 500 550 – – 1.11 <[illegible]	<450 500 600 – – 1.46 <1	<450 500 700 – – 1.14 <1	<450 500 650 – – 1.53 <[illegible]	<450 500 500 15000 15000 1.37 <[illegible]	<450 500 500 – – 1.75 <1	<450 500 500 15000 15000 2.00 <1	<450 500 500 – – 1.19 <1	<450 500 600 – – 1.79 <1	<450 500 600 – – [illegible].57 <1	<450 500 450 15000 15000 1.72 <1	<450 500 750 – – 1.50 <1	<450 500 650 – – 4.31 <1
BO	<450 500 700 15000 20000 1.64 <1	<450 500 650 – – 1.88 <1	<450 500 675 – – 1.73 <1	<450 500 500 – – 1.36 <1	<450 500 500 15000 15000 1.39 <1	<450 500 600 – – 1.84 <1	<450 500 550 – – 1.76 <1	<450 500 600 – – 1.26 <1	<450 500 500 15000 15000 2.03 <1	<450 500 500 – – 1.08 <1	<450 500 500 15000 15000 1.16 <1	<450 500 600 – – 1.47 <1	<450 500 600 – – 1.53 <[illegible]	<450 500 500 – – 1.41 <[illegible]	<450 500 500 15000 15000 1.29 <1	<450 500 600 – – 1.34 <1	<450 500 600 – – [illegible].88 <1	<450 500 500 – – 1.24 <1	<450 500 450 15000 15000 1.23 <1	<450 500 700 – – 1.66 <1	<450 500 650 – – 4.26 <1
BN	<450 500 650 15000 20000 3.61 <1	<450 500 600 – – 1.26 <1	<450 500 550 – – 1.46 <1	<450 500 600 – – 1.29 <1	<450 500 650 15000 15000 1.12 <1	<450 500 600 – – 1.21 <1	<450 500 550 – – 1.30 <1	<450 500 550 – – 0.70 <1	<450 500 600 – – 0.88 <1	<450 500 550 – – 1.37 <1	<450 500 600 – – 3.51 <1	<450 500 550 – – 1.75 <1	<450 500 600 15000 17500 1.96 <1	<450 500 450 – – 1.66 <1	<450 500 450 15000 20000 1.49 <1	<450 500 500 – – 1.69 <1	<450 500 500 – – 1.64 <1	<450 500 550 – – 1.33 <1	<450 500 550 – – 1.98 <1	<450 500 600 – – 1.49 <1	<450 500 600 – – 4.93 <1
BM	<450 500 650 15000 17500 1.77 <1	<450 500 550 – – 1.36 <1	<450 500 550 – – 1.09 <1	<450 500 500 – – 0.67 <1	<450 500 500 15000 15000 1.33 <1	<450 500 600 – – 1.87 <1	<450 500 550 – – 1.75 <1	<450 500 600 – – 1.72 <1	<450 500 550 15000 15000 1.28 <1	<450 500 550 – – 1.50 <1	<450 500 550 15000 15000 0.69	<450 500 550 – – 1.46 <1	<450 500 600 – – 1.60 <1	<450 500 550 – – 1.67 <1	<450 500 550 15000 17500 1.43 <1	<450 500 550 – – 1.09 <1	<450 500 550 15000 15000 1.45 <1	<450 500 550 – – 1.24 <1	<450 500 550 15000 20000 1.54 <1	<450 500 550 – – 1.32 <1	<450 500 550 – – 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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CF	<450 500 550 15000 20000 1.62 <1	<450 500 450 15000 20000 1.69 <1	<450 500 600 15000 20000 1.35 <1	<450 500 600 – – 1.85 <1	<450 500 550 15000 20000 1.69 <1	<450 500 550 – – 1.89 <1	<450 500 600 – – 1.77 <1	<450 500 600 – – 2.06 <1	<450 500 500 – – 1.93 <1	<450 500 550 – – 1.90 <1	<450 500 550 – – 2.42 <1	<450 500 550 – – 1.02 <1	<450 500 550 15000 25000 1.78 <1	<450 500 600 – – 2.00 <1	<450 500 600 15000 25000 1.62 <1	<450 500 600 – – 1.87 <1	<450 500 550 – – 1.40 <1	<450 500 550 – – 1.69 <1	<450 500 550 15000 20000 1.80 <1	<450 500 750 – – 1.30 <1	<450 500 650 – – 1.50 <1
CE	<450 500 650 15000 20000 1.45 <1	<450 500 550 – – 1.88 <1	<450 500 550 – – 1.57 <1	<450 500 550 – – 1.97 <1	<450 500 500 15000 20000 4.66 <1	<450 500 600 – – 1.61 <1	<450 500 600 – – 2.01 <1	<450 500 600 – – 2.48 <1	<450 500 600 15000 20000 2.28 <1	<450 500 600 – – 2.57 <1	<450 500 600 15000 17500 2.67 <1	<450 500 630 – – 2.26 <1	<450 500 600 – – 2.39 <1	<450 500 600 – – 1.90 <1	<450 500 700 15000 17500 2.61 <1	<450 500 700 – – 2.94 <1	<450 500 700 – – 1.88 <1	<450 500 650 – – 1.90 <1	<450 500 500 15000 15000 2.12 <1	<450 500 650 – – 1.74 <1	<450 500 650 – – 2.00 <1
CD	<450 500 650 15000 20000 2.10 <1	<450 500 550 – – 1.50 <1	<450 500 550 – – 1.36 <1	<450 500 550 – – 1.46 <1	<450 500 500 15000 17500 1.96 <1	<450 500 550 – – 1.92 <1	<450 500 600 – – 1.57 <1	<450 500 600 – – 1.57 <1	<450 500 600 – – 1.46 <1	<450 500 600 – – 1.75 <1	<450 500 600 – – 1.85 <1	<450 500 550 – – 1.84 <1	<450 500 600 15000 20000 2.04 <1	<450 500 600 – – 2.08 <1	<450 500 600 15000 20000 1.76 <1	<450 500 450 – – 2.35 <1	<450 500 600 – – 1.56 <1	<450 500 550 – – 1.61 <1	<450 500 650 15000 15000 1.50 <1	<450 500 650 – – 1.31 <1	<450 500 700 – – 6.04 <1
CC	<450 500 650 15000 20000 1.47 <1	<450 500 675 – – 1.83 <1	<450 500 625 – – 1.58 <1	<450 500 600 – – 1.75 <1	<450 500 550 15000 20000 2.47 <1	<450 500 550 – – 1.77 <1	<450 500 550 – – 1.29 <1	<450 500 500 – – 1.63 <1	<450 500 500 15000 17500 2.73 <1	<450 500 500 – – 2.34 <1	<450 500 550 15000 15000 2.78 <1	<450 500 550 – – 2.46 <1	<450 500 550 – – 2.83 <1	<450 500 550 – – 2.44 <1	<450 500 600 15000 20000 2.83 <1	<450 500 600 – – 7.60 <1	<450 500 600 – – 3.27 <1	<450 500 500 – – 2.53 <1	<450 500 550 15000 20000 1.28 <1	<450 500 600 – – 1.67 <1	<450 500 600 – – 5.82 <1
CB	<450 500 650 15000 22500 0.97	<450 500 450 – – 1.37 <1	<450 500 550 – – 1.77 <1	<450 500 550 – – 1.34 <1	<450 500 450 15000 20000 1.60 <1	<450 500 600 – – 1.80 <1	<450 500 650 – – 3.69 <1	<450 500 500 – – 1.52 <1	<450 500 550 – – 1.57 <1	<450 500 550 – – 1.77 <1	<450 500 650 – – 1.64 <1	<450 500 630 – – 1.49 <1	<450 500 650 15000 20000 1.22 <1	<450 500 550 – – 1.89 <1	<450 500 600 15000 20000 2.04 <1	<450 500 650 – – 2.19 <1	<450 500 650 – – 2.12 <1	<450 500 750 – – 1.75 <1	<450 500 700 – – 1.68 <1	<450 500 800 – – 1.58 <1	<450 500 600 – – 2.09 <1
CA	<450 500 600 15000 20000 2.02 <1	<450 500 600 – – 1.97 <1	<450 500 600 – – 1.87 <1	<450 500 550 – – 5.63 <1	<450 500 500 15000 20000 1.92 <1	<450 500 600 – – 1.40 <1	<450 500 550 – – 1.80 <1	<450 500 520 – – 1.81 <1	<450 500 550 15000 20000 1.63 <1	<450 500 550 – – 2.10 <1	<450 500 550 15000 20000 1.51 <1	<450 530 550 – – 1.73 <1	<450 500 650 – – 2.39 <1	<450 500 600 – – 1.99 <1	<450 500 550 15000 20000 2.04 <1	<450 500 550 – – 1.83 <1	<450 500 550 – – 1.73 <1	<450 500 550 – – 1.91 <1	<450 500 550 15000 15000 1.27 <1	<450 500 600 – – 2.34 <1	<450 500 700 – – 5.90 <1
BZ	<450 500 500 15000 17500 2.46 <1	<450 500 500 – – 1.95 <1	<450 500 650 – – 2.31 <1	<450 500 600 – – 2.04 <1	<450 500 600 15000 20000 2.35 <1	<450 500 600 – – 1.73 <1	<450 500 600 – – 2.18 <1	<450 500 600 – – 1.86 <1	<450 500 550 – – 1.91 <1	<450 500 600 – – 1.34 <1	<450 500 400 – – 1.64 <1	<450 530 550 – – 1.85 <1	<450 500 600 15000 15000 1.98 <1	<450 500 550 – – 1.94 <1	<450 500 550 15000 20000 2.29 <1	<450 500 500 – – 1.18 <1	<450 500 550 – – 2.09 <1	<450 500 500 – – 1.92 <1	<450 500 550 – – 1.13 <1	<450 500 650 – – 2.03 <1	<450 500 650 – – 1.91 <1
BY	<450 500 600 15000 17500 0.99	<450 500 650 – – 1.35 <1	<450 500 500 – – 1.78 <1	<450 500 600 – – 1.35 <1	<450 500 600 15000 17500 1.23 <1	<450 500 600 – – 2.44 <1	<450 500 400 – – 2.00 <1	<450 500 400 – – 2.66 <1	<450 500 400 15000 17500 0.80	<450 500 400 – – 2.31 <1	<450 500 500 15000 15000 1.97 <1	<450 530 530 – – 2.60 <1	<450 500 500 – – 1.86 <1	<450 500 600 – – 1.94 <1	<450 500 500 15000 15000 1.44 <1	<450 500 500 – – 1.80 <1	<450 500 500 – – 1.90 <1	<450 500 500 – – 1.54 <1	<450 500 500 15000 15000 1.51 <1	<450 500 600 – – 1.78 <1	<450 500 600 – – 4.83 <1
BX	<450 500 600 15000 20000 1.48 <1	<450 500 600 – – 1.62 <1	<450 500 600 – – 2.73 <1	<450 500 600 – – 2.54 <1	<450 500 650 15000 15000 2.12 <1	<450 500 650 – – 2.38 <1	<450 500 600 – – 2.21 <1	<450 500 700 – – 2.09 <1	<450 500 650 – – 2.39 <1	<450 500 600 – – 2.20 <1	<450 500 450 – – 2.55 <1	<450 530 450 – – 1.95 <1	<450 500 500 15000 17500 1.99 <1	<450 500 450 – – 1.91 <1	<450 500 450 15000 17500 2.14 <1	<450 500 450 – – 1.67 <1	<450 500 500 – – 2.10 <1	<450 500 550 – – 1.96 <1	<450 500 550 – – 2.31 <1	<450 500 600 – – 2.62 <1	<450 500 600 – – 3.97 <1
BW	<450 500 650 15000 20000 2.79 <1	<450 500 550 – – 1.70 <1	<450 500 500 – – 1.67 <1	<450 500 550 – – 1.73 <1	<450 500 500 15000 15000 1.60 <1	<450 500 500 – – 1.79 <1	<450 500 500 – – 1.71 <1	<450 500 500 – – 1.78 <1	<450 500 500 15000 15000 1.92 <1	<450 500 500 – – 2.03 <1	<450 500 500 15000 15000 1.80 <1	<450 530 430 – – 1.90 <1	<450 500 400 – – 2.03 <1	<450 500 450 – – 1.86 <1	<450 500 400 15000 15000 1.99 <1	<450 500 500 – – 1.81 <1	<450 500 500 – – 1.59 <1	<450 500 500 – – 2.60 <1	<450 500 500 15000 15000 1.77 <1	<450 500 600 – – 2.09 <1	<450 500 700 – – 2.80 <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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CP		<450 500 600 15000 20000 1.18 <1	<450 500 700 – – 1.59 <1	<450 500 675 – – 1.59 <1	<450 500 700 15000 20000 2.06 <1	<450 500 650 – – 1.55 <1	<450 500 650 – – 1.80 <1	<450 500 600 – – 1.79 <1	<450 500 600 – – 1.48 <1	<450 500 600 – – 1.59 <1	<450 500 650 – – 1.87 <1	<450 500 600 – – 2.12 <1	<450 500 650 15000 15000 1.80 <1	<450 500 650 – – 1.84 <1	<450 500 600 15000 20000 1.03 <1	<450 500 650 – – 1.23 <1	<450 500 650 – – 0.97 <1	<450 500 450 15000 15000 1.02 <1	<450 500 650 – – 1.11 <1		
CO		<450 500 600 15000 25000 1.36 <1	<450 500 600 – – 2.00 <1	<450 500 550 – – 1.78 <1	<450 500 600 15000 25000 1.54 <1	<450 500 600 – – 1.46 <1	<450 500 550 – – 1.62 <1	<450 500 650 – – 1.52 <1	<450 500 600 15000 20000 1.48 <1	<450 500 600 – – 2.27 <1	<450 500 600 15000 20000 1.16 <1	<450 500 600 – – 1.04 <1	<450 500 600 – – 1.71 <1	<450 500 600 – – 1.65 <1	<450 500 600 15000 20000 1.74 <1	<450 500 600 – – 1.21 <1	<450 500 600 – – 1.57 <1	<450 500 500 15000 10000 1.68 <1	<450 500 700 15000 20000 1.51 <1		
CN		<450 500 650 – – 1.32 <1	<450 500 600 – – 2.10 <1	<450 500 550 – – 2.96 <1	<450 500 650 15000 20000 1.64 <1	<450 500 650 – – 1.99 <1	<450 500 600 – – 1.07 <1	<450 500 600 – – 1.34 <1	<450 500 550 – – 1.07 <1	<450 500 550 – – 1.68 <1	<450 500 500 – – 1.95 <1	<450 500 500 – – 2.07 <1	<450 500 500 15000 20000 1.94 <1	<450 500 650 – – 1.80 <1	<450 500 650 15000 17500 2.01 <1	<450 500 650 – – 2.49 <1	<450 500 600 – – 2.28 <1	<450 500 500 – – 1.00 <1	<450 500 550 – – 2.21 <1		<450 500 500 – – 1.77 <1
CM	<450 500 750 15000 20000 1.47 <1	<450 500 750 – – 1.25 <1	<450 500 550 – – 1.35 <1	<450 500 750 – – 2.20 <1	<450 500 750 15000 20000 1.94 <1	<450 500 700 – – 1.63 <1	<450 500 750 – – 1.53 <1	<450 500 650 – – 2.01 <1	<450 500 500 15000 20000 1.93 <1	<450 500 600 – – 1.53 <1	<450 500 400 15000 20000 1.43 <1	<450 500 600 – – 1.54 <1	<450 500 500 – – 1.75 <1	<450 500 550 – – 1.53 <1	<450 500 600 15000 20000 1.79 <1	<450 500 400 – – 1.61 <1	<450 500 400 – – 1.31 <1	<450 500 400 – – 1.77 <1	<450 500 400 15000 20000 1.65 <1		<450 500 500 – – 4.30 <1
CL	<450 500 600 15000 20000 1.12 <1	<450 500 600 – – 1.82 <1	<450 500 500 – – 2.02 <1	<450 500 600 – – 1.89 <1	<450 500 550 15000 15000 2.07 <1	<450 500 600 – – 1.68 <1	<450 500 800 – – 2.07 <1	<450 500 750 – – 2.07 <1	<450 500 700 – – 1.64 <1	<450 500 650 – – 1.40 <1	<450 500 600 – – 1.86 <1	<450 500 550 – – 2.06 <1	<450 500 600 15000 20000 1.95 <1	<450 500 550 – – 1.80 <1	<450 500 600 15000 20000 1.77 <1	<450 500 600 – – 1.37 <1	<450 500 550 – – 1.36 <1	<450 500 500 – – 6.82 <1	<450 500 550 – – 1.71 <1		<450 500 650 – – 1.68 <1
CK	<450 500 500 15000 27500 1.28 <1	<450 500 450 – – 1.71 <1	<450 500 450 15000 20000 1.39 <1	<450 500 750 – – 1.26 <1	<450 500 750 15000 20000 1.48 <1	<450 500 700 – – 1.75 <1	<450 500 600 – – 1.20 <1	<450 500 700 – – 1.29 <1	<450 500 700 15000 15000 1.45 <1	<450 500 600 – – 1.29 <1	<450 500 700 15000 20000 1.37 <1	<450 500 750 – – 0.57	<450 500 650 – – 1.74 <1	<450 500 700 – – 2.01 <1	<450 500 750 15000 20000 1.09 <1	<450 500 700 – – 1.62 <1	<450 500 700 – – 2.79 <1	<450 500 750 – – 1.14 <1	<450 500 500 15000 15000 1.82 <1	<450 500 750 – – 1.51 <1		
CJ	<450 500 550 15000 22500 2.02 <1	<450 500 450 15000 20000 1.63 <1	<450 500 450 15000 20000 0.61	<450 500 750 – – 1.62 <1	<450 500 600 15000 22500 1.53 <1	<450 500 600 – – 1.71 <1	<450 500 600 – – 1.33 <1	<450 500 550 – – 1.41 <1	<450 500 600 – – 1.26 <1	<450 500 550 – – 1.29 <1	<450 500 500 – – 0.95	<450 500 550 – – 1.14 <1	<450 500 600 15000 20000 1.57 <1	<450 500 600 – – 2.28 <1	<450 500 650 15000 20000 1.61 <1	<450 500 650 – – 1.77 <1	<450 500 500 – – 1.44 <1	<450 500 500 – – 1.47 <1	<450 500 550 15000 17500 1.72 <1	<450 500 800 – – 1.55 <1		
CI	<450 500 750 15000 20000 2.07 <1	<450 500 550 15000 15000 1.75 <1	<450 500 500 – – 1.74 <1	<450 500 600 – – 2.01 <1	<450 500 650 15000 25000 1.85 <1	<450 500 600 – – 3.32 <1	<450 500 600 – – 2.13 <1	<450 500 550 – – 2.36 <1	<450 500 600 15000 20000 1.82 <1	<450 500 550 – – 2.09 <1	<450 500 500 15000 20000 1.67 <1	<450 500 450 – – 1.56 <1	<450 500 700 – – 2.04 <1	<450 500 550 – – 1.42 <1	<450 500 750 15000 20000 1.71 <1	<450 500 600 – – 1.38 <1	<450 500 600 – – 1.79 <1	<450 500 550 – – 1.55 <1	<450 500 500 15000 15000 1.80 <1	<450 500 600 – – 1.54 <1		
CH	<450 500 600 15000 20000 2.49 <1	<450 500 650 – – 1.59 <1	<450 500 650 – – 1.85 <1	<450 500 700 – – 2.20 <1	<450 500 600 15000 20000 1.94 <1	<450 500 600 – – 1.86 <1	<450 500 500 – – 1.97 <1	<450 500 500 – – 1.69 <1	<450 500 600 – – 1.88 <1	<450 500 650 – – 1.15 <1	<450 500 450 – – 1.77 <1	<450 500 450 – – 1.68 <1	<450 500 450 15000 17500 1.55 <1	<450 500 450 – – 2.13 <1	<450 500 500 15000 17500 1.81 <1	<450 500 450 – – 2.15 <1	<450 500 450 – – 2.38 <1	<450 500 500 – – 1.72 <1	<450 500 600 15000 15000 1.55 <1	<450 500 750 – – 1.98 <1		<450 500 700 – – 1.64 <1
CG	<450 500 500 15000 17500 1.47 <1	<450 500 500 – – 1.65 <1	<450 500 500 – – 1.67 <1	<450 500 500 – – 1.74 <1	<450 500 500 15000 20000 2.43 <1	<450 500 500 – – 1.42 <1	<450 500 500 – – 1.93 <1	<450 500 500 – – 1.95 <1	<450 500 550 15000 17500 1.43 <1	<450 500 500 – – 1.87 <1	<450 500 450 15000 15000 2.24 <1	<450 500 450 – – 1.64 <1	<450 500 450 – – 1.82 <1	<450 500 450 – – 2.55 <1	<450 500 450 15000 15000 1.50 <1	<450 500 450 – – 1.66 <1	<450 500 450 – – 1.96 <1	<450 500 450 – – 1.92 <1	<450 500 600 15000 15000 1.28 <1	<450 500 500 – – 2.17 <1		<450 500 500 – – 1.80 <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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

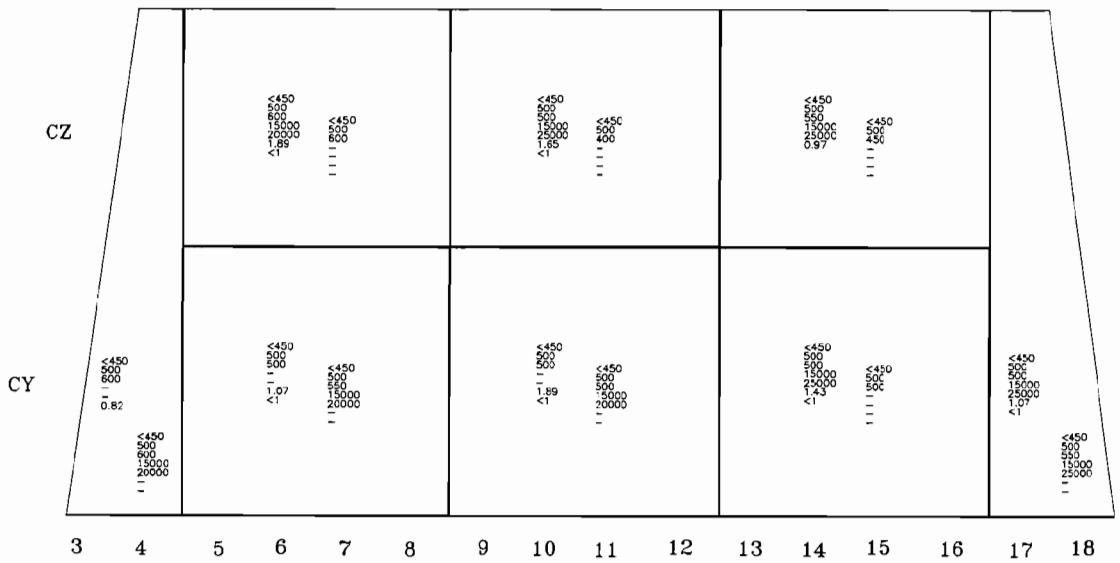
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CX			<450 500 600 – – 1.42 <1	<450 500 600 – – 1.36 <1	<450 500 700 15000 20000 1.27 <1	<450 500 700 – – 1.38 <1	<450 500 700 – – 1.69 <1	<450 500 700 – – 2.12 <1	<450 500 700 – – 1.01 <1	<450 500 700 – – 1.55 <1	<450 500 700 – – 0.55	<450 500 700 – – 1.50 <1	<450 500 750 15000 22500 1.30 <1	<450 500 800 – – 1.74 <1	<450 500 800 – – 1.63 <1	<450 500 850 – – 1.65 <1	<450 500 600 15000 15000 1.34 <1	<450 500 650 – – 1.27 <1	
CW			<450 500 650 15000 20000 1.32 <1	<450 500 600 – – 1.16 <1	<450 500 700 15000 20000 1.22 <1	<450 500 700 – – 1.29 <1	<450 500 700 – – 1.79 <1	<450 500 700 – – 1.69 <1	<450 500 700 15000 20000 1.04 <1	<450 500 700 – – 0.97	<450 500 750 15000 20000 1.82 <1	<450 500 700 – – 1.32 <1	<450 500 800 – – 1.62 <1	<450 500 800 – – 1.99 <1	<450 500 800 15000 20000 1.73 <1	<450 500 800 15000 22500 1.29 <1	<450 500 450 15000 20000 2.16 <1	<450 500 650 – – 1.78 <1	
CV			<450 500 600 15000 20000 1.66 <1	<450 500 600 – – 1.58 <1	<450 500 550 – – 1.95 <1	<450 500 600 – – 1.21 <1	<450 500 600 – – 1.28 <1	<450 500 550 – – 1.84 <1	<450 500 600 – – 1.13 <1	<450 500 550 – – 1.34 <1	<450 500 600 – – 1.20 <1	<450 500 600 – – 0.86	<450 500 500 15000 20000 1.25 <1	<450 500 600 – – 1.47 <1	<450 500 850 15000 23000 0.61	<450 500 800 – – 1.71 <1	<450 500 450 15000 20000 1.22 <1	<450 500 650 – – 1.39 <1	<450 500 850 – – 1.50 <1
CU	<450 500 700 15000 20000 1.34 <1		<450 500 800 15000 20000 1.41 <1	<450 500 500 15000 15000 1.65 <1	<450 500 650 15000 20000 1.77 <1	<450 500 700 – – 1.14 <1	<450 500 600 – – 1.43 <1	<450 500 700 – – 1.34 <1	<450 500 600 15000 20000 1.20 <1	<450 500 650 – – 2.21 <1	<450 500 550 15000 20000 1.96 <1	<450 500 600 – – 1.76 <1	<450 500 600 – – 1.13 <1	<450 500 650 – – 1.46 <1	<450 500 650 15000 23000 2.49 <1	<450 500 600 – – 2.69 <1	<450 500 600 15000 20000 1.98 <1	<450 500 600 – – 1.80 <1	
CT	<450 500 600 15000 20000 1.54 <1		<450 500 750 – – <0.43	<450 500 500 15000 15000 1.72 <1	<450 500 700 15000 20000 1.77 <1	<450 500 650 – – 1.28 <1	<450 500 550 – – 1.36 <1	<450 500 500 – – 1.83 <1	<450 500 550 – – 2.09 <1	<450 500 600 – – 1.75 <1	<450 500 700 – – 1.89 <1	<450 500 750 – – 2.02 <1	<450 500 750 15000 20000 1.37 <1	<450 500 750 – – 1.58 <1	<450 500 700 15000 20000 1.41 <1	<450 500 750 – – 1.56 <1	<450 500 450 15000 20000 1.46 <1	<450 500 450 15000 20000 0.76	<450 500 600 – – 1.09 <1
CS	<450 500 900 15000 20000 1.68 <1		<450 500 600 – – 1.37 <1	<450 500 600 – – 1.94 <1	<450 500 650 15000 20000 1.41 <1	<450 500 600 – – 4.30 <1	<450 500 600 – – 1.47 <1	<450 500 600 – – 1.33 <1	<450 500 600 15000 20000 1.73 <1	<450 500 600 – – 1.72 <1	<450 500 550 15000 17500 3.21 <1	<450 500 600 – – 1.39 <1	<450 500 600 – – 1.16 <1	<450 500 650 – – 1.52 <1	<450 500 550 15000 23000 1.33 <1	<450 500 600 – – 0.99	<450 500 500 15000 20000 0.82	<450 500 450 15000 20000 1.36 <1	<450 500 750 15000 20000 1.30 <1
CR	<450 500 700 15000 20000 1.27 <1		<450 500 650 15000 15000 0.90	<450 500 650 15000 15000 0.84	<450 500 600 15000 20000 1.83 <1	<450 500 600 – – 1.38 <1	<450 500 650 – – 1.71 <1	<450 500 600 – – 1.26 <1	<450 500 600 – – 1.23 <1	<450 500 600 – – 1.59 <1	<450 500 650 – – 1.42 <1	<450 500 600 – – 1.29 <1	<450 500 600 15000 20000 1.30 <1	<450 500 600 – – 1.57 <1	<450 500 600 15000 20000 1.51 <1	<450 500 600 – – 1.71 <1	<450 500 600 – – 1.03 <1	<450 500 600 – – 0.88	<450 500 600 – – 1.50 <1
CQ			<450 500 650 15000 15000 1.50 <1	<450 500 575 – – 1.24 <1	<450 500 700 15000 20000 1.25 <1	<450 500 650 – – 1.09 <1	<450 500 600 – – 1.74 <1	<450 500 600 – – 1.94 <1	<450 500 650 15000 20000 1.45 <1	<450 500 650 – – 1.73 <1	<450 500 700 15000 20000 2.01 <1	<450 500 650 – – 1.75 <1	<450 500 700 – – 1.46 <1	<450 500 600 – – 1.78 <1	<450 500 550 15000 20000 1.53 <1	<450 500 650 – – 2.68 <1	<450 500 600 – – 1.73 <1	<450 500 600 – – 2.05 <1	<450 500 600 15000 20000 1.68 <1

Sample Data

<450 – IM-247/PD Results [μμCi/22cm²]
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]

2. Dry Dock 2

e. Localized Grid Maps (Floor)

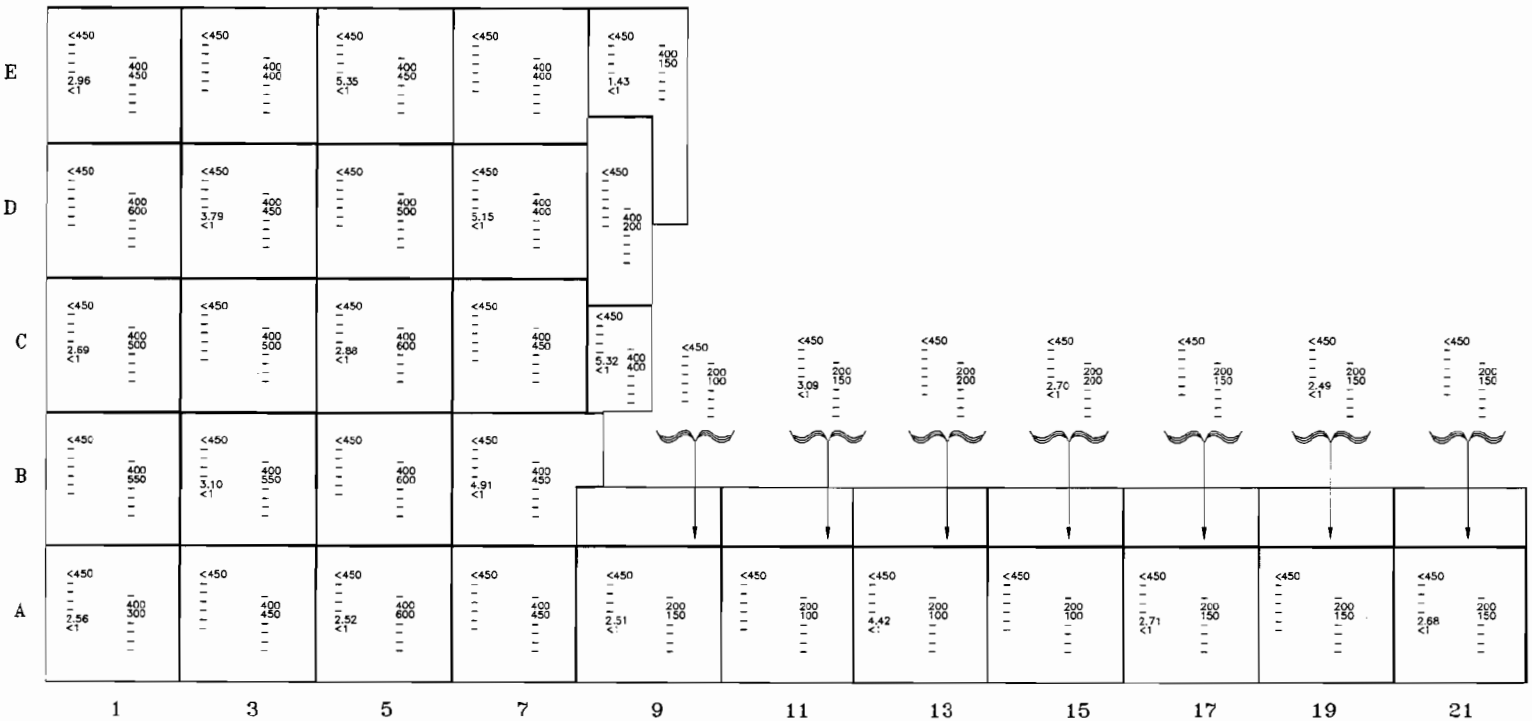


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

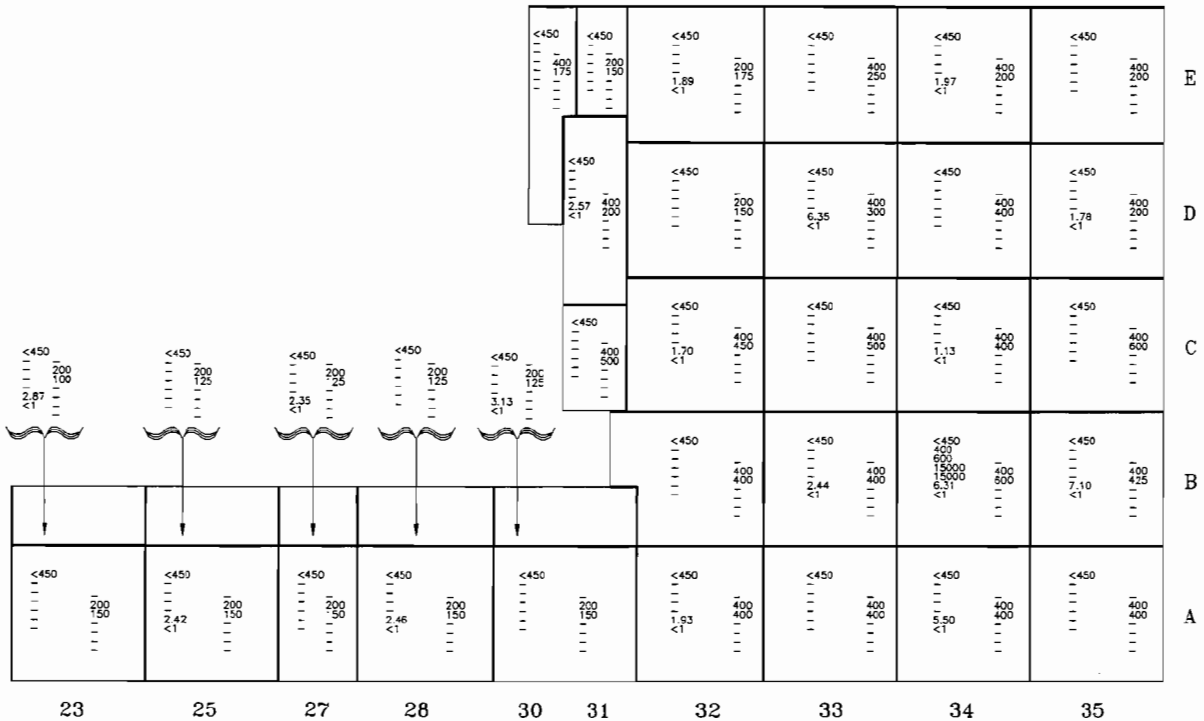


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

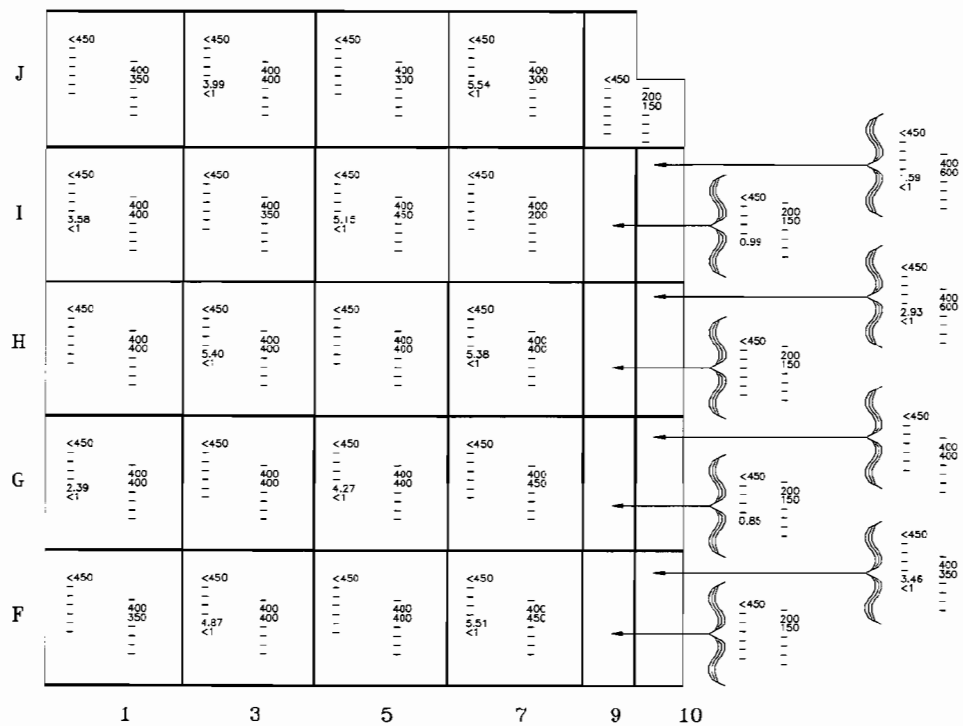


Sample Data

< 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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

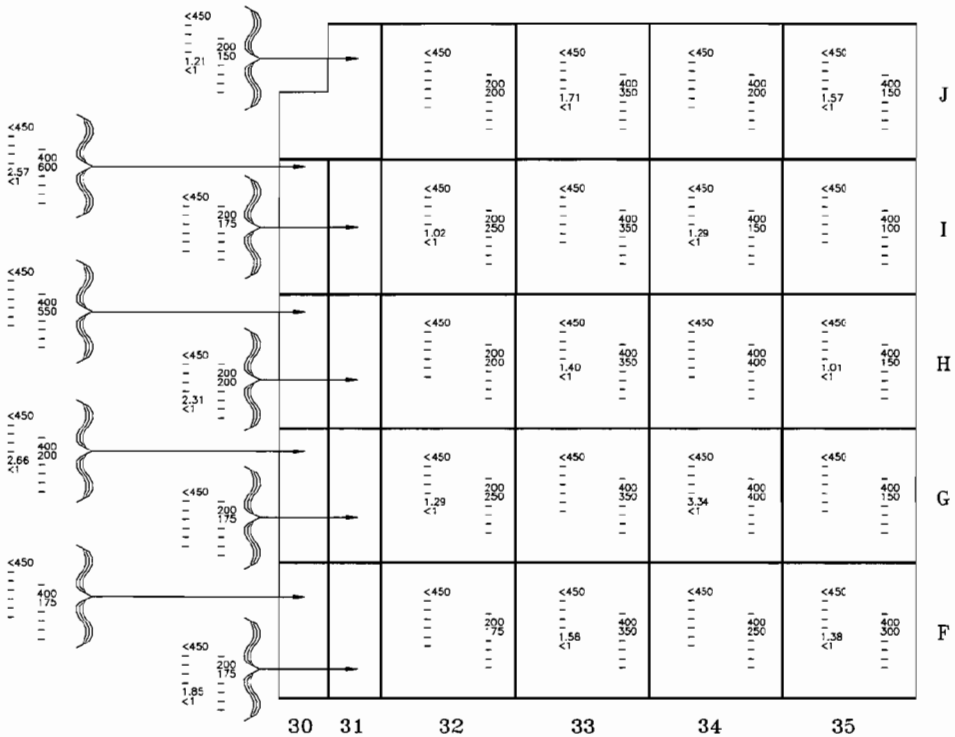


Sample Data

<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 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]

2. Dry Dock 2

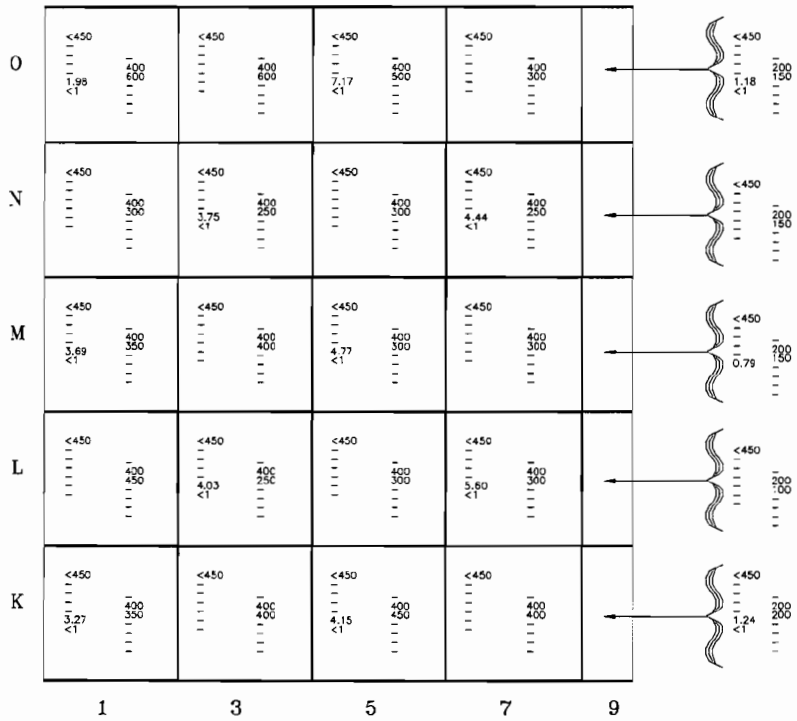
e. Localized Grid Maps (Adjacent Area)



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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

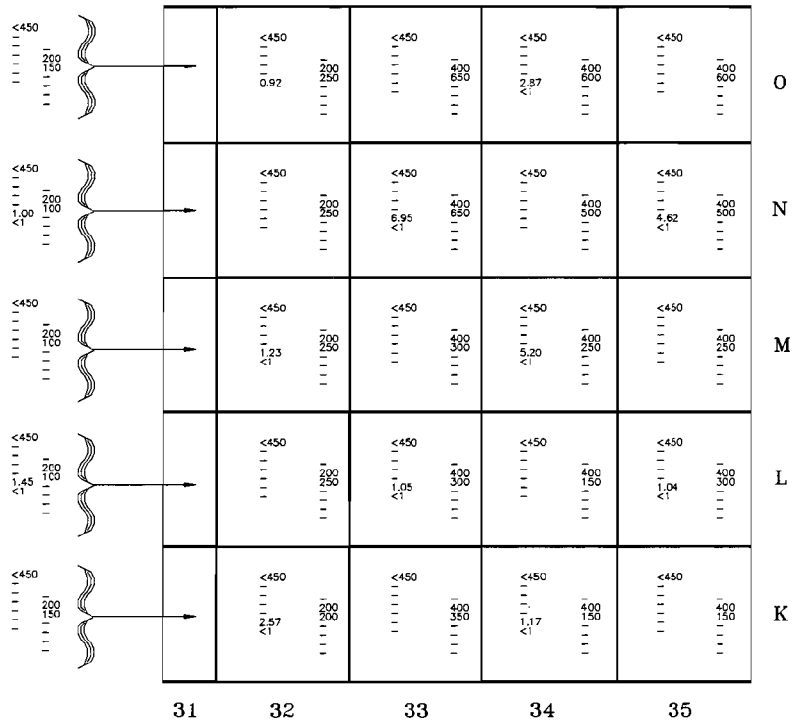


Sample Data

< 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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

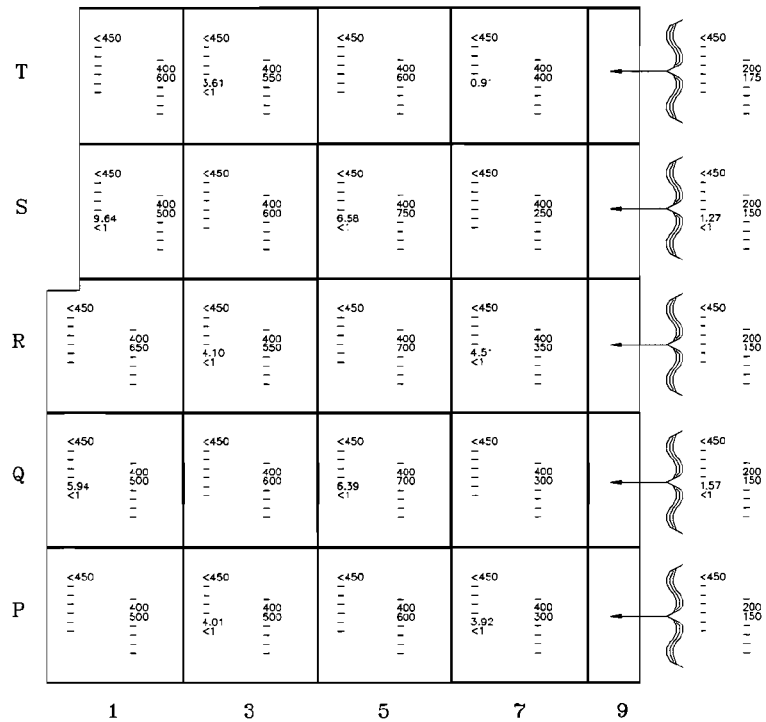


Sample Data

< 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]

2. Dry Dock 2

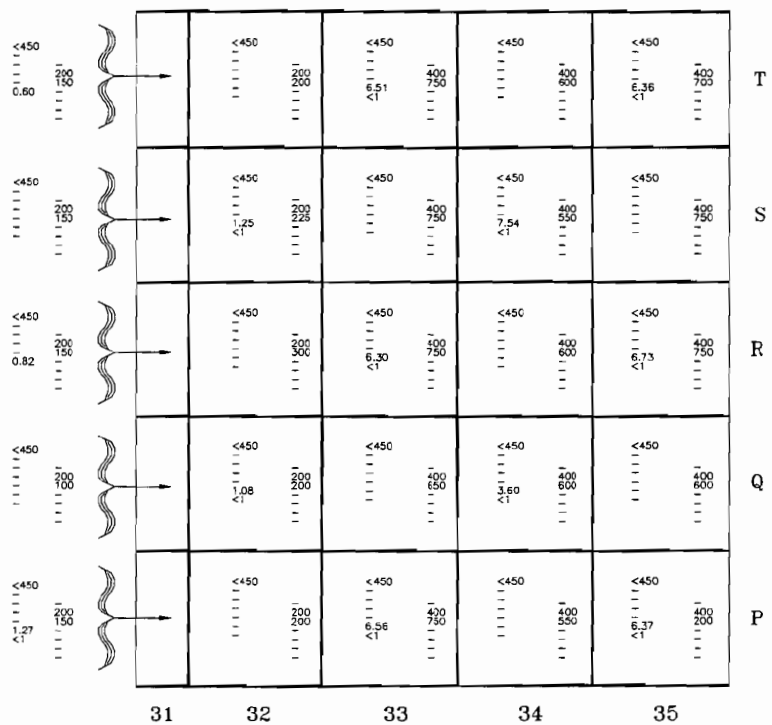
e. Localized Grid Maps (Adjacent Area)



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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

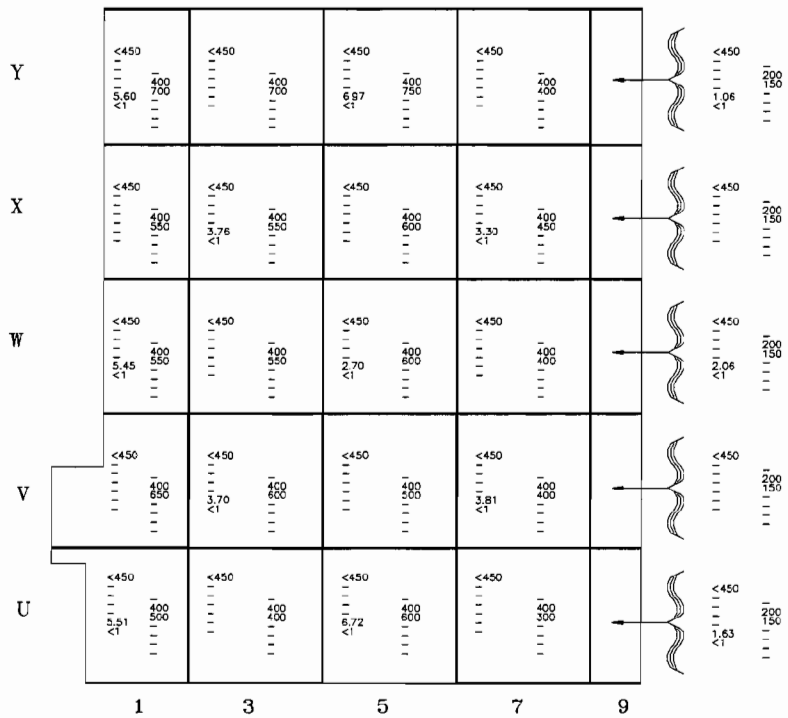


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

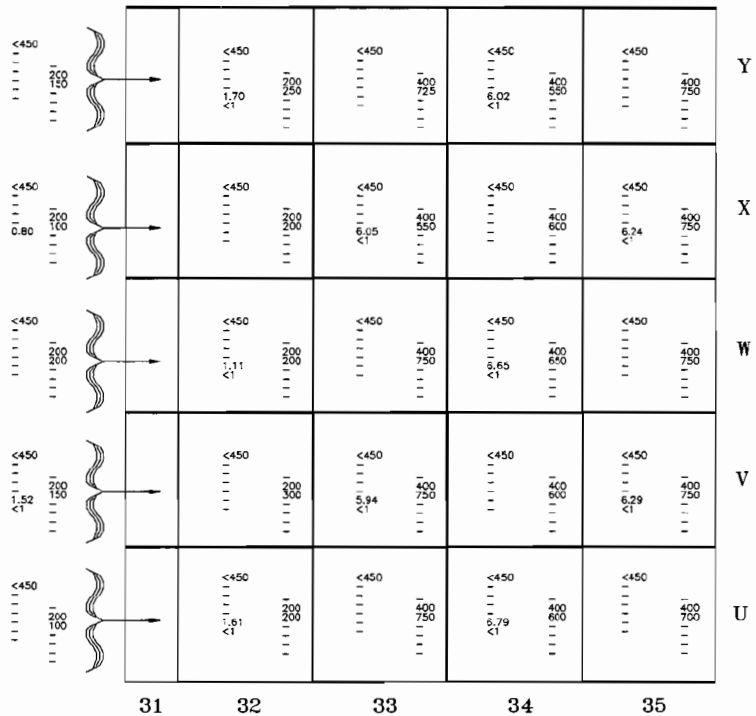


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

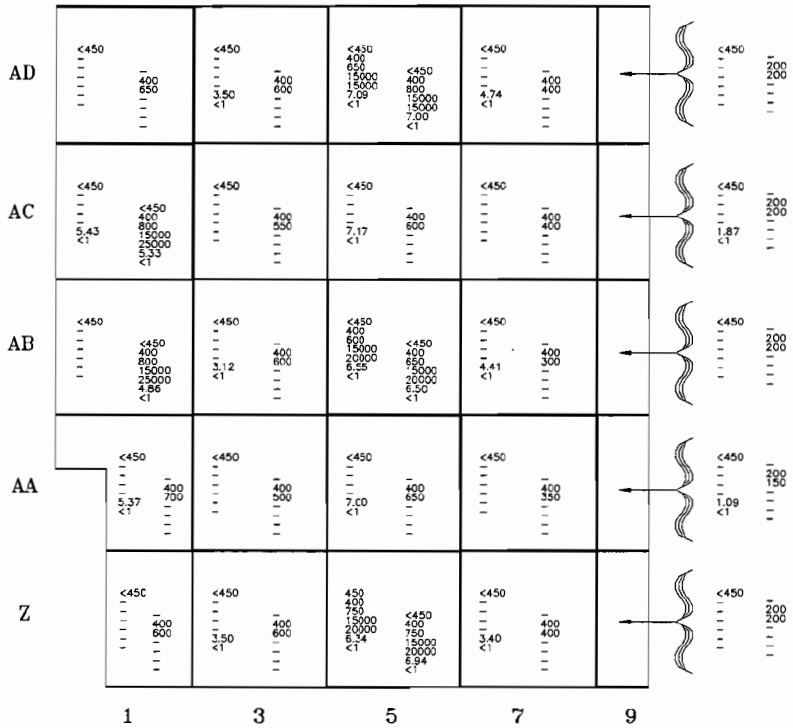


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)



Note:

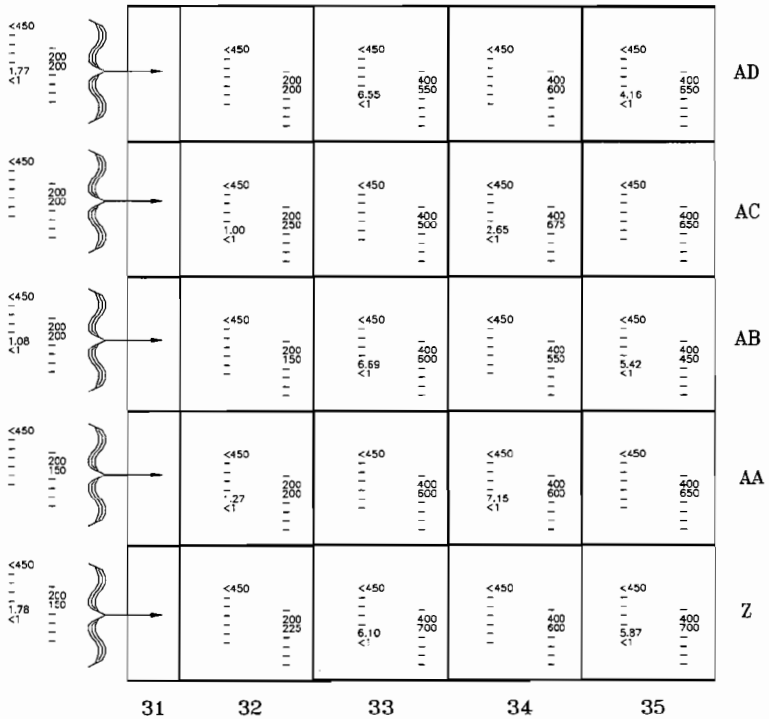
(1) Areas surveyed with an IM-247/PD, indicating detectable activity greater than or equal to 450μμCi/20cm² were sampled and analyzed by spectral analysis. In these cases, analysis of the spectrum indicated only photopeaks of naturally occurring isotopes not associated with the Naval Nuclear Propulsion Program. These natural isotopes include K-40, Ra-226, Pb-212, Bi-214, Be-7, Tl-208 and Ac-228.

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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

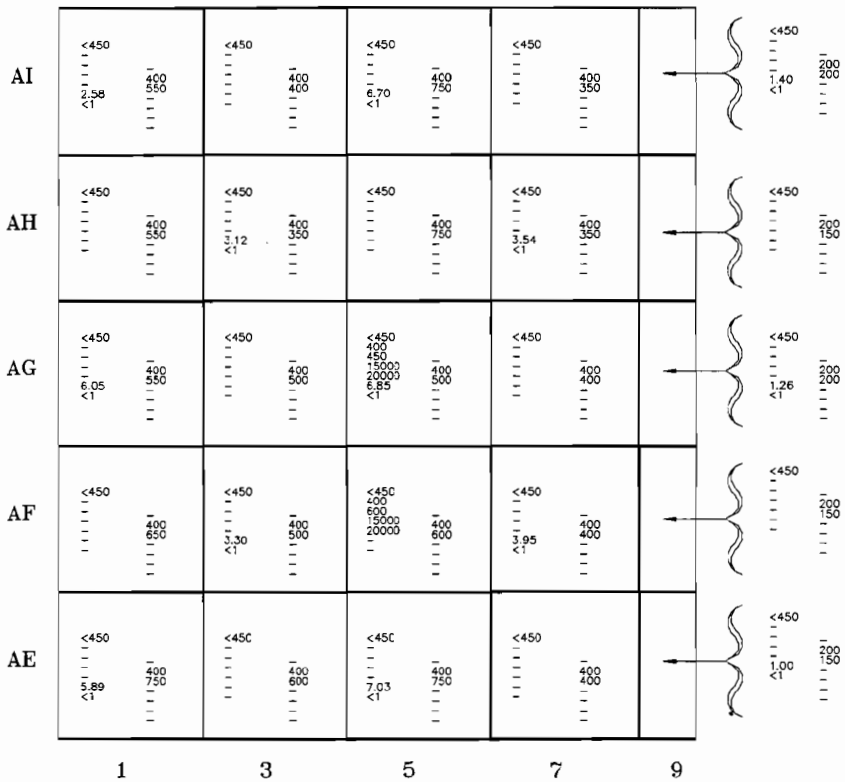


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

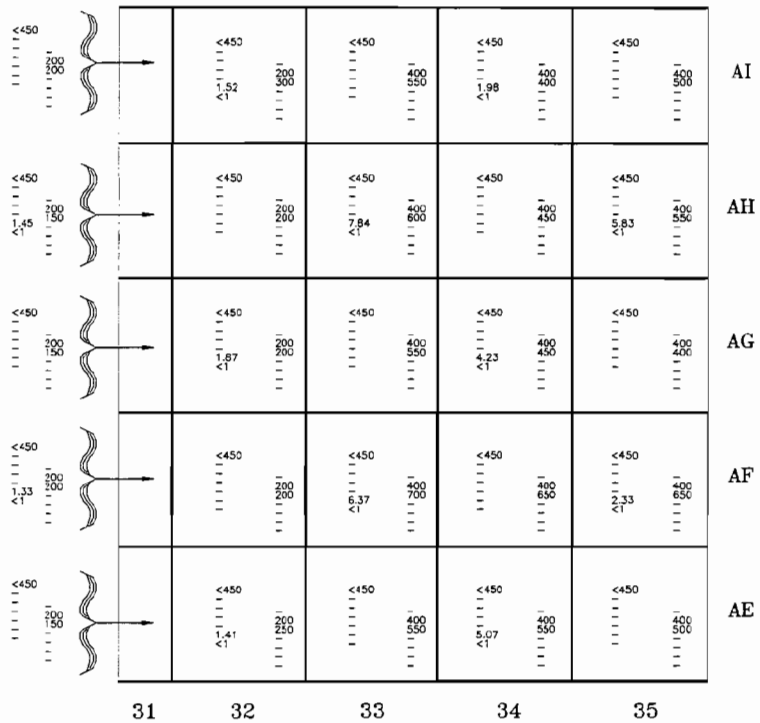


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

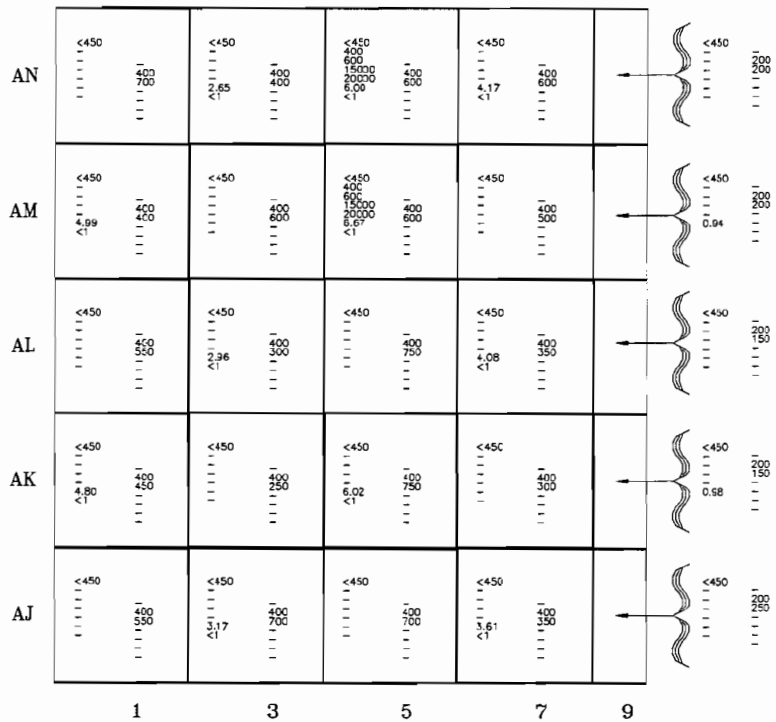


Sample Data

<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]
1.02 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

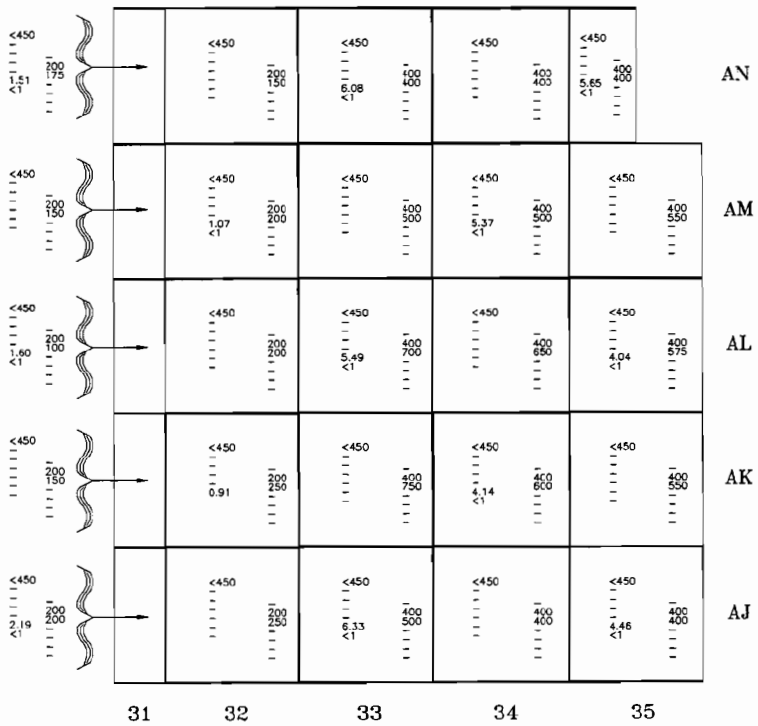


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

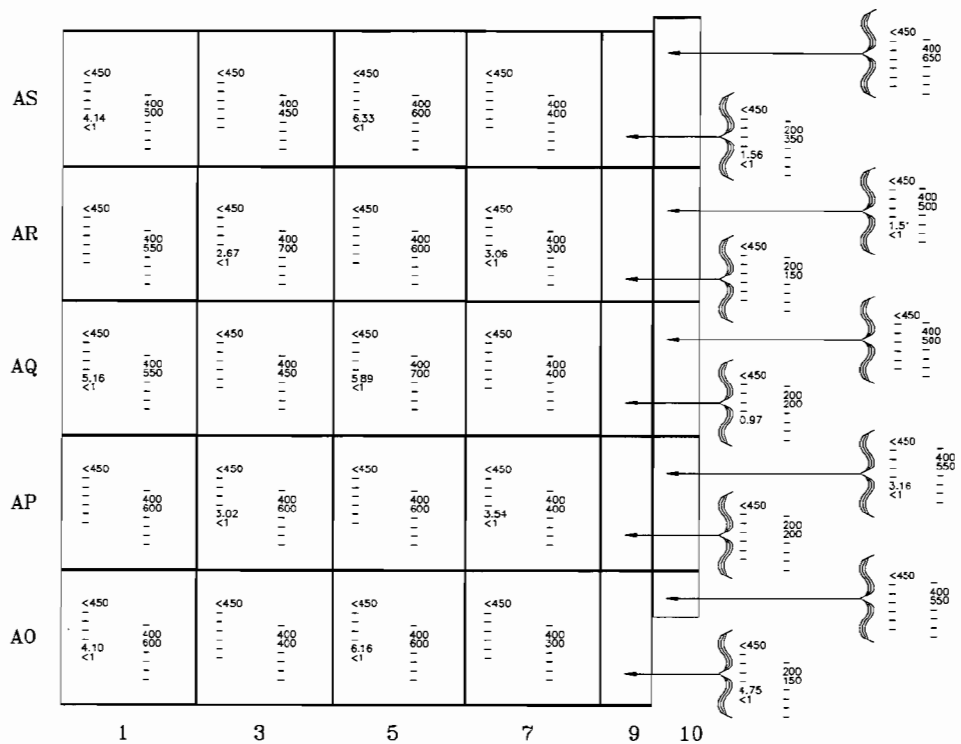


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

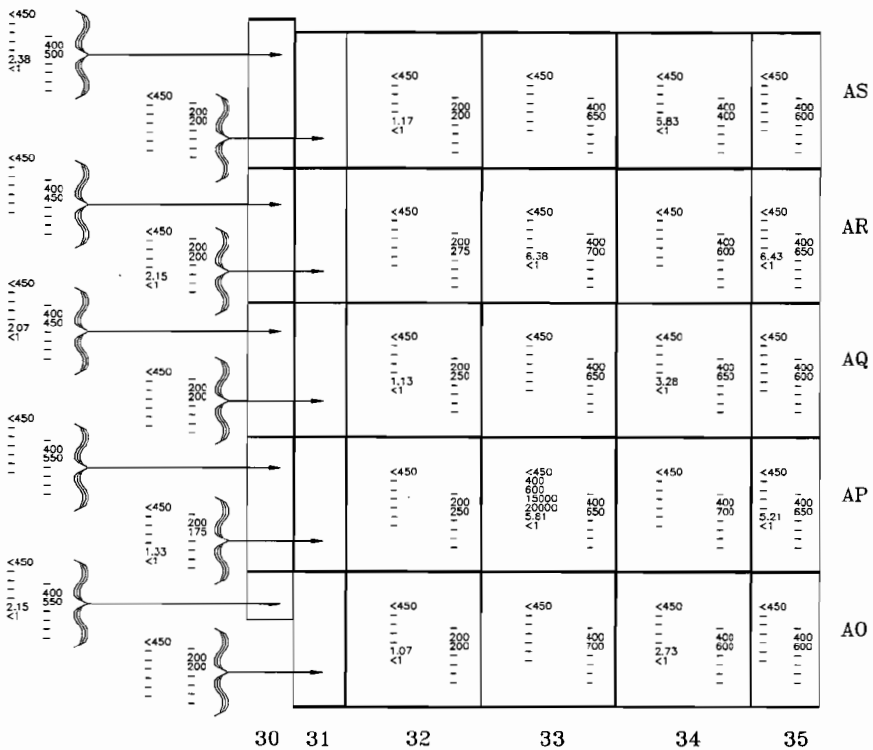


Sample Data

<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 Resuts [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

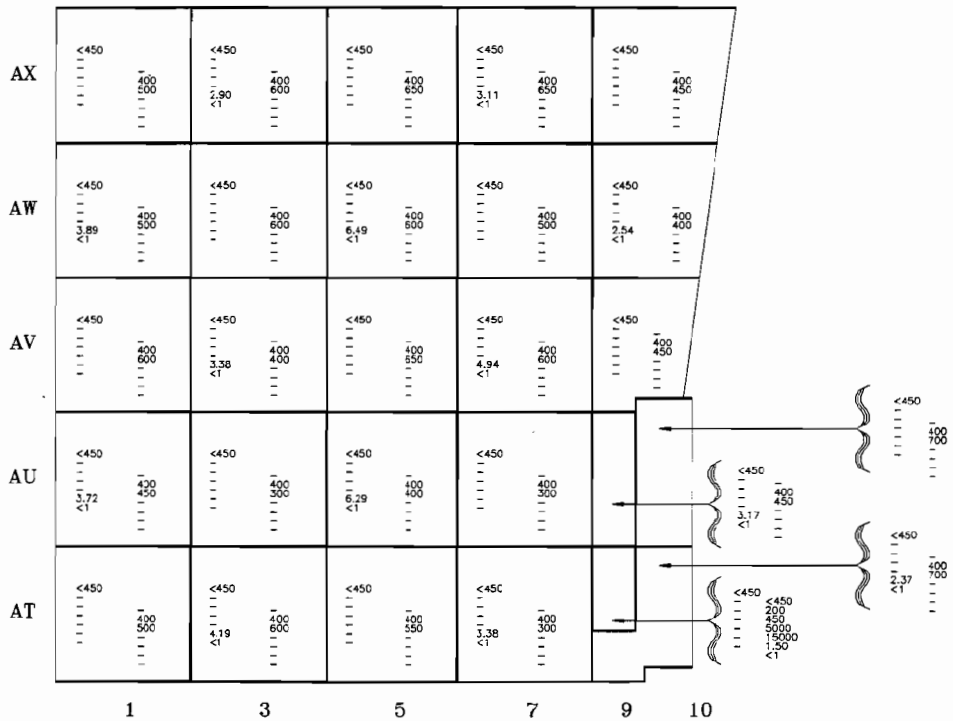


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)



Sample Data

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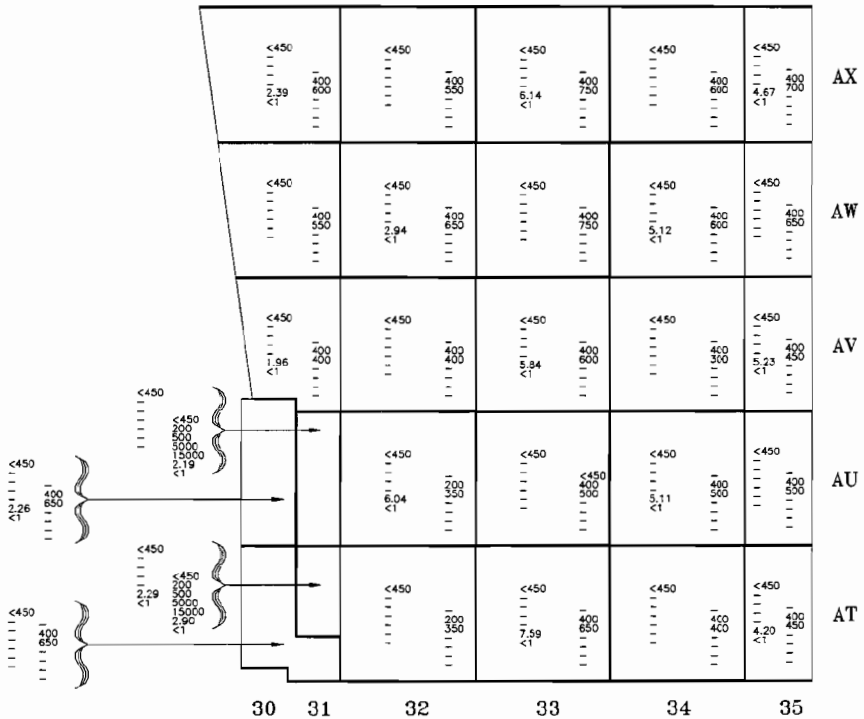
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

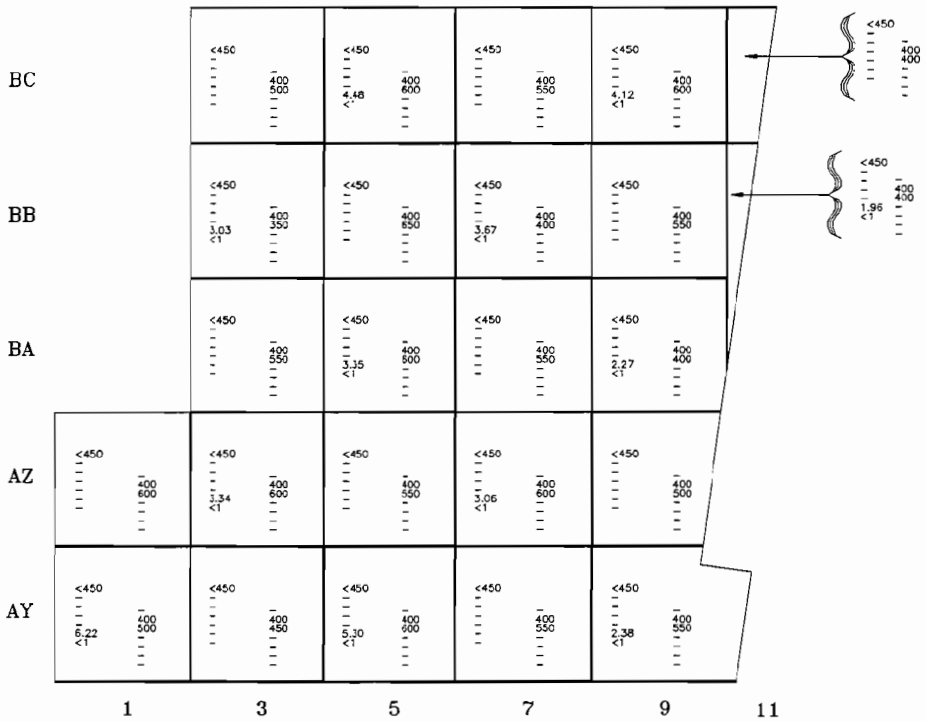


Sample Data

< 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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

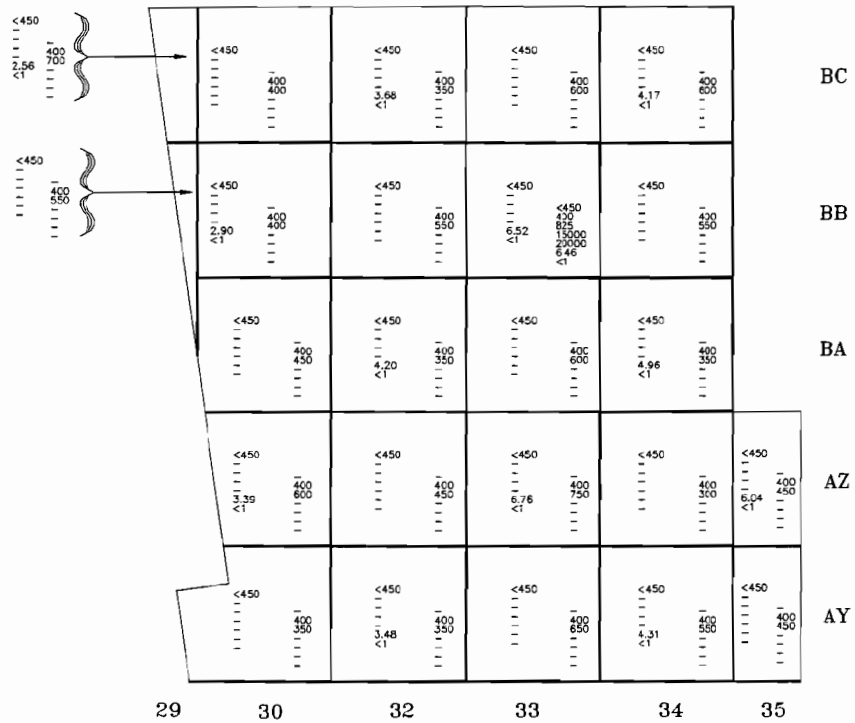


Sample Data

<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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)



Sample Data

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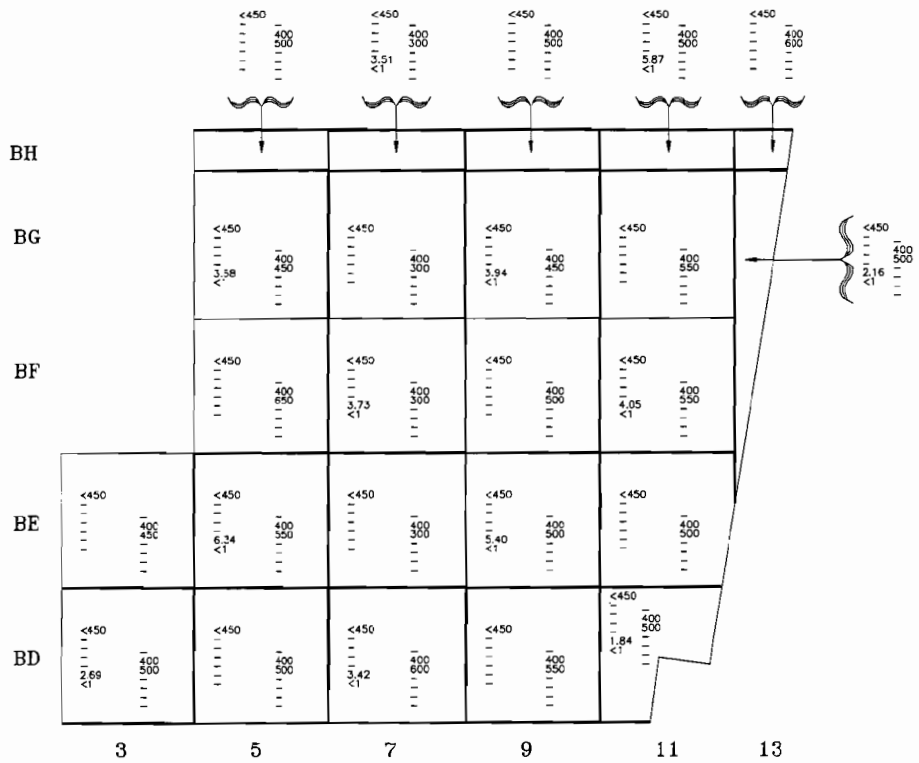
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

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.]
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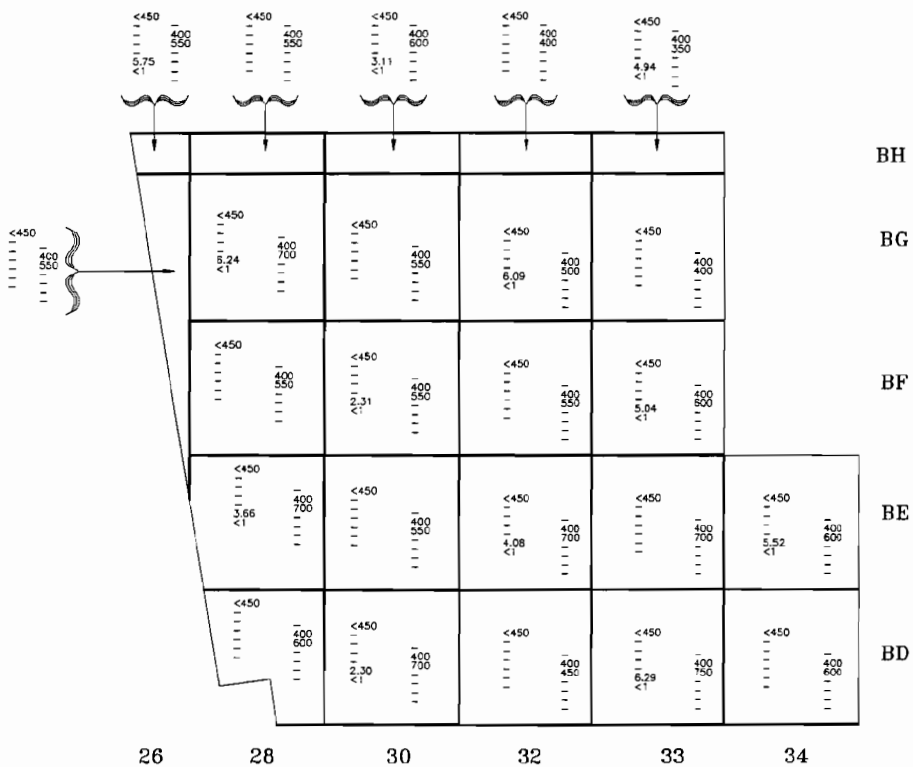
<1 – MCA Specific Co-60 Results [pCi/g]

2. Dry Dock 2

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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

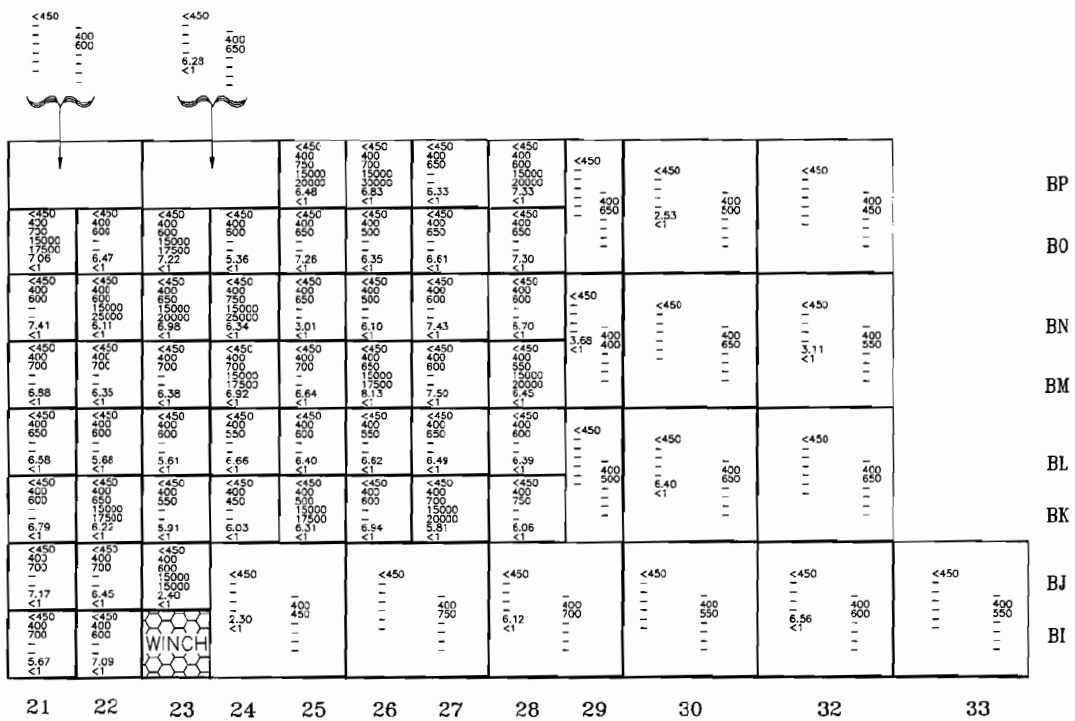
	5	7	9	11	13	15	17	18	19	20
BO		<450 – – – – 5.38 <1	<450 – – – – –	<450 – – – 5.34 <1	<450 – – – – –	<450 – – – 4.78 <1	<450 – – – – –	<450 – – – – –	<450 – – – 4.79 <1	<450 – – – – –
		– 400 400 – – –	– 400 700 – – –	– 400 650 – – –	– 400 550 – – –	– 400 550 – – –	– 400 550 – – –		– 400 600 – – –	
BN		<450 – – – – –	<450 – – – 5.03 <1	<450 – – – – –	<450 – – – 3.62 <1	<450 – – – – –	<450 400 600 – – 5.27 <1	<450 400 500 – – 4.46 <1	<450 400 550 – – 4.96 <1	<450 400 600 15000 17500 5.25 <1
		– 400 300 – – –	– 400 400 – – –	– 400 550 – – –	– 400 400 – – –	– 400 500 – – –	<450 400 550 15000 17500 4.96 <1	<450 400 700 – – 5.63 <1	<450 400 700 – – 4.59 <1	<450 400 600 15000 17500 6.79 <1
BM										
BL		<450 – – – – 3.66 <1	<450 – – – – –	<450 – – – 3.56 <1	<450 – – – – –	<450 – – – 5.43 <1	<450 400 600 – – 4.53 <1	<450 400 450 – – 5.06 <1	<450 400 550 – – 4.52 <1	<450 400 550 – – 4.85 <1
		– 400 250 – – –	– 400 550 – – –	– 400 550 – – –	– 400 550 – – –	– 400 600 – – –	<450 400 550 15000 17500 5.58 <1	<450 400 600 – – 4.71 <1	<450 400 500 15000 20000 4.53 <1	<450 400 600 – – 6.32 <1
BK										
BJ	<450 – – – 3.70 <1	<450 – – – – –	<450 – – – 5.32 <1	<450 – – – – –	<450 – – – 4.49 <1	<450 – – – – –	<450 400 550 – – 5.67 <1	<450 400 550 – – 4.84 <1	<450 400 500 – – 4.96 <1	<450 400 700 – – 7.45 <1
	– 400 650 – – –	– 400 450 – – –	– 400 700 – – –	– 400 650 – – –	– 400 700 – – –	– 400 400 – – –	<450 400 550 15000 17500 6.72 <1	<450 400 550 – – 5.48 <1	<450 400 550 – – 4.47 <1	<450 400 700 15000 17000 5.69 <1
BI										

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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)



Sample Data

<450 – IM-247/PD Results [pCi/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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

	1	2	3	4	5	6	7	8	9	10	11	12
BZ	<450 400 600 – – 5.23 <1	<450 400 600 – – 5.64 <1	<450 400 600 – – 4.82 <1	<450 400 400 – – 2.48 <1	<450 400 500 – – 3.47 <1	<450 400 450 – – 3.54 <1	<450 400 500 12000 15000 2.81 <1	<450 400 450 – – 2.68 <1	<450 400 500 – – 2.94 <1	<450 400 500 – – 4.02 <1	<450 400 450 – – 4.14 <1	<450 400 550 12000 15000 3.32 <1
BY	<450 400 500 – – 4.68 <1	<450 400 500 – – 5.21 <1	<450 400 500 12000 15000 5.26 <1	<450 400 450 – – 4.82 <1	<450 400 450 – – 4.13 <1	<450 400 450 12000 17500 3.88 <1	<450 400 450 – – 2.67 <1	<450 400 450 – – 3.37 <1	<450 400 450 12000 15000 2.44 <1	<450 400 400 – – 3.87 <1	<450 400 400 12000 15000 1.39 <1	<450 400 450 – – 4.14 <1
BX	<450 400 600 – – 5.73 <1	<450 400 550 12000 15000 11.75 <1	<450 400 550 – – 4.57 <1	<450 400 600 – – 5.38 <1	<450 400 600 12000 15000 3.79 <1	<450 400 500 – – 3.70 <1	<450 400 450 – – 4.91 <1	<450 400 450 12000 15000 2.38 <1	<450 400 500 – – 3.81 <1	<450 400 450 – – 3.31 <1	<450 400 500 12000 17500 2.34 <1	<450 400 450 – – 3.37 <1
BW	<450 400 500 12000 15000 4.49 <1	<450 400 500 – – 4.71 <1	<450 400 550 – – 4.88 <1	<450 400 550 12000 12500 5.07 <1	<450 400 500 – – 4.10 <1	<450 400 600 – – <0.38	<450 400 500 12000 15000 4.36 <1	<450 400 500 – – 5.91 <1	<450 400 500 – – 4.50 <1	<450 400 550 – – <0.44	<450 400 600 – – 4.12 <1	<450 400 550 12000 14000 4.61 <1
BV	<450 400 550 – – 3.84 <1	<450 400 600 12000 15000 3.94 <1	<450 400 550 – – 3.06 <1	<450 400 550 – – 4.94 <1	<450 400 500 12000 15000 4.86 <1	<450 400 550 – – 4.90 <1	<450 400 600 – – 3.27 <1	<450 400 600 12000 15000 5.23 <1	<450 400 550 – – 5.50 <1	<450 400 500 12000 15000 4.83 <1	<450 400 500 – – 2.80 <1	<450 400 500 – – 4.68 <1
BU	<450 400 550 12000 15000 3.86 <1	<450 400 550 – – 4.00 <1	<450 400 500 – – 4.25 <1	<450 400 600 12000 15000 5.71 <1	<450 400 550 – – 4.87 <1	<450 400 650 – – 3.63 <1	<450 400 500 – – 6.12 <1	<450 400 550 – – 5.31 <1	<450 400 550 – – 4.60 <1	<450 400 500 – – 5.70 <1	<450 400 550 12000 14000 4.37 <1	<450 400 500 – – 5.40 <1
BT	<450 400 600 – – 3.75 <1	<450 400 600 – – 3.74 <1	<450 400 500 – – 3.38 <1	<450 400 430 – – 5.61 <1	<450 400 400 – – 4.57 <1	<450 400 600 – – 4.48 <1	<450 400 450 – – 2.37 <1	<450 400 650 – – 0.86	<450 400 500 12000 15000 3.47 <1	<450 400 600 – – 2.97 <1	<450 400 700 – – 5.47 <1	<450 400 600 – – 5.11 <1
BS	<450 400 550 – – 5.27 <1	<450 400 600 – – 2.79 <1	<450 400 550 12000 17500 3.82 <1	<450 400 430 – – 5.05 <1	<450 400 500 – – 3.59 <1	<450 400 550 12000 15000 2.61 <1	<450 400 500 – – 4.84 <1	<450 400 450 12000 15000 4.37 <1	<450 400 550 – – 4.22 <1	<450 400 700 – – 4.62 <1	<450 400 700 – – 6.16 <1	<450 400 700 12000 20000 3.45 <1
BR	<450 400 600 – – 2.56 <1	<450 400 500 12000 15000 3.46 <1	<450 400 500 – – 3.11 <1	<450 400 550 – – 2.36 <1	<450 400 500 12000 15000 3.90 <1	<450 400 400 – – 2.59 <1	<450 400 450 12000 15000 2.41 <1	<450 400 550 – – 4.41 <1	<450 400 450 – – 4.36 <1	<450 400 450 12000 14000 2.30 <1	<450 400 250 – – 2.51 <1	<450 400 400 – – 2.24 <1
BQ	<450 400 600 12000 17500 2.95 <1	<450 400 550 – – 5.25 <1	<450 400 650 – – 4.69 <1	<450 400 550 12000 15000 5.42 <1	<450 400 650 – – 4.36 <1	<450 400 625 – – 6.32 <1	<450 400 500 – – 5.46 <1	<450 400 500 – – 4.43 <1	<450 400 600 12000 15000 5.25 <1	<450 400 450 – – 4.70 <1	<450 400 600 12000 15000 4.41 <1	<450 400 500 – – 2.91 <1

Sample Data

<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (-IV-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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

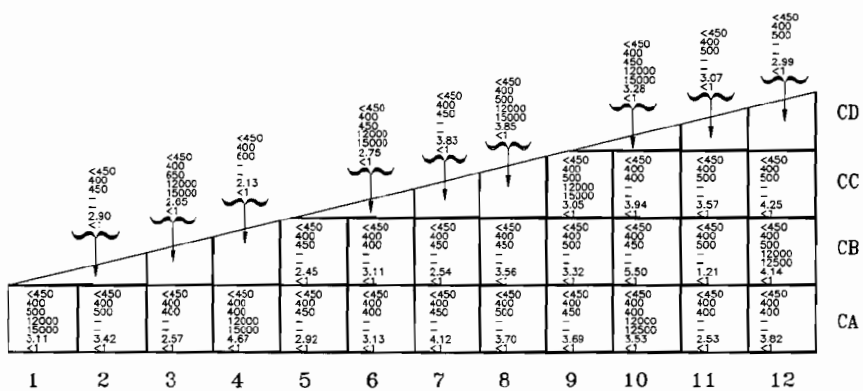
	13	14	15	16	17	18	19	20	21	22	23
BZ	<450 400 500 – – 3.04 <1	<450 400 450 12000 15000 1.44 <1	<450 400 500 – – 3.48 <1	<450 400 450 12000 12500 3.52 <1	<450 400 450 12000 15000 2.68 <1	<450 400 500 – – 3.13 <1	<450 400 400 12000 14000 1.81 <1	<450 400 300 – – 1.79 <1	<450 400 400 – – 1.88 <1	<450 400 400 12000 15000 1.32 <1	<450 400 600 12000 20000 3.67 <1
BY	<450 400 550 – – 3.74 <1	<450 400 500 – – 3.40 <1	<450 400 450 – – 4.62 <1	<450 400 400 – – 1.95 <1	<450 400 500 – – 3.50 <1	<450 400 450 – – 3.62 <1	<450 400 300 – – 1.86 <1	<450 400 300 – – 2.17 <1	<450 400 600 – – 2.26 <1	<450 400 550 – – 2.47 <1	<450 400 500 – – 2.03 <1
BX	<450 400 600 12000 12000 3.27 <1	<450 400 550 – – 4.28 <1	<450 400 550 12000 12500 5.55 <1	<450 400 500 – – 4.43 <1	<450 400 500 – – 4.39 <1	<450 400 500 12000 15000 4.33 <1	<450 400 350 12000 12500 2.45 <1	<450 400 350 – – 2.35 <1	<450 400 600 12000 15000 1.86 <1	<450 400 600 – – 1.60 <1	<450 400 600 12000 15000 3.23 <1
BW	<450 400 500 12000 12000 4.72 <1	<450 400 450 – – 4.57 <1	<450 400 650 – – 4.37 <1	<450 400 500 – – 3.91 <1	<450 400 600 – – 5.81 <1	<450 400 550 12000 15000 2.77 <1	<450 400 450 – – 2.57 <1	<450 400 450 12000 15000 2.49 <1	<450 400 450 – – 3.01 <1	<450 400 500 12000 13000 2.07 <1	<450 400 600 – – 2.01 <1
BV	<450 400 550 – – 5.08 <1	<450 400 450 12000 15000 4.53 <1	<450 400 500 – – 5.30 <1	<450 400 500 12000 14000 5.35 <1	<450 400 400 – – 4.81 <1	<450 400 450 – – 3.70 <1	<450 400 500 12000 15000 1.93 <1	<450 400 450 – – 2.29 <1	<450 400 450 – – 2.59 <1	<450 400 400 – – 1.77 <1	<450 400 600 – – 2.13 <1
BU	<450 400 450 – – 4.48 <1	<450 400 500 – – 4.85 <1	<450 400 450 12000 15000 6.56 <1	<450 400 450 – – 5.56 <1	<450 400 500 12000 15000 4.30 <1	<450 400 400 – – 1.76 <1	<450 400 450 – – 2.22 <1	<450 400 400 – – 2.22 <1	<450 400 400 12000 15000 1.04 <1		
BT	<450 400 550 – – 5.81 <1	<450 400 600 – – 5.53 <1	<450 400 600 – – 5.51 <1	<450 400 700 – – 6.34 <1	<450 400 600 – – 4.78 <1	<450 400 350 – – 2.51 <1	<450 400 600 – – 2.51 <1	<450 400 600 – – 3.18 <1	<450 400 400 – – 1.14 <1		
BS	<450 400 450 – – 4.26 <1	<450 400 600 – – 4.48 <1	<450 400 650 12000 15000 4.12 <1	<450 400 550 – – 1.56 <1	<450 400 500 12000 15000 4.55 <1	<450 400 500 – – 2.87 <1	<450 400 500 – – 3.47 <1	<450 400 600 – – 2.24 <1	<450 400 400 12000 15000 0.67		
BR	<450 400 600 – – 2.65 <1	<450 400 400 12000 13000 2.85 <1	<450 400 550 – – 2.32 <1	<450 400 500 – – 3.09 <1	<450 400 500 – – 2.70 <1	<450 400 550 12000 15000 4.00 <1	<450 400 500 – – 3.10 <1	<450 400 450 12000 15000 3.16 <1	<450 400 500 – – 2.82 <1		
BQ	<450 400 500 12000 15000 3.60 <1	<450 400 450 – – 5.14 <1	<450 400 500 – – 3.18 <1	<450 400 600 12000 15000 3.67 <1	<450 400 550 – – 3.50 <1	<450 400 550 – – 2.92 <1	<450 400 400 12000 15000 2.71 <1	<450 400 400 – – 4.59 <1	<450 400 500 – – 4.76 <1		

Sample Data

<450 – IM-247/PD Results [µCi/2cm²]
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]

2. Dry Dock 2

e. Localized Grid Maps (Adjacent Area)

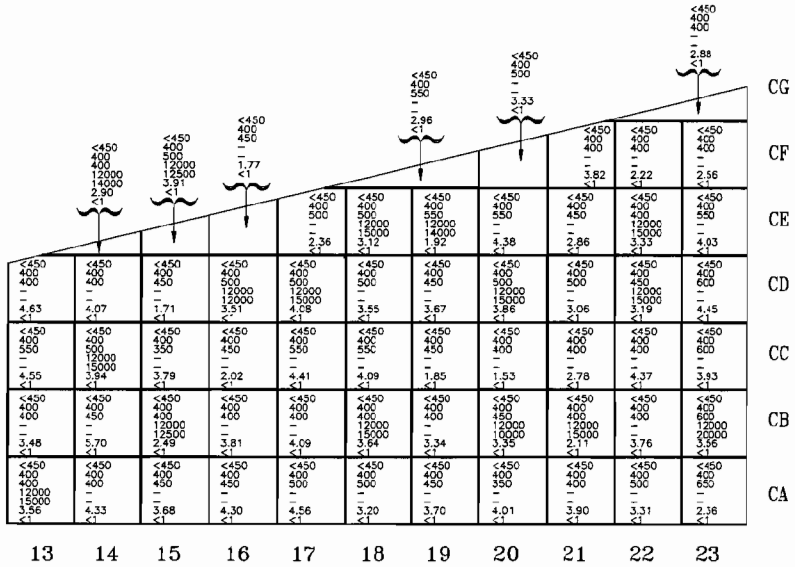


Sample Data

<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]

2. Dry Dock 2

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]

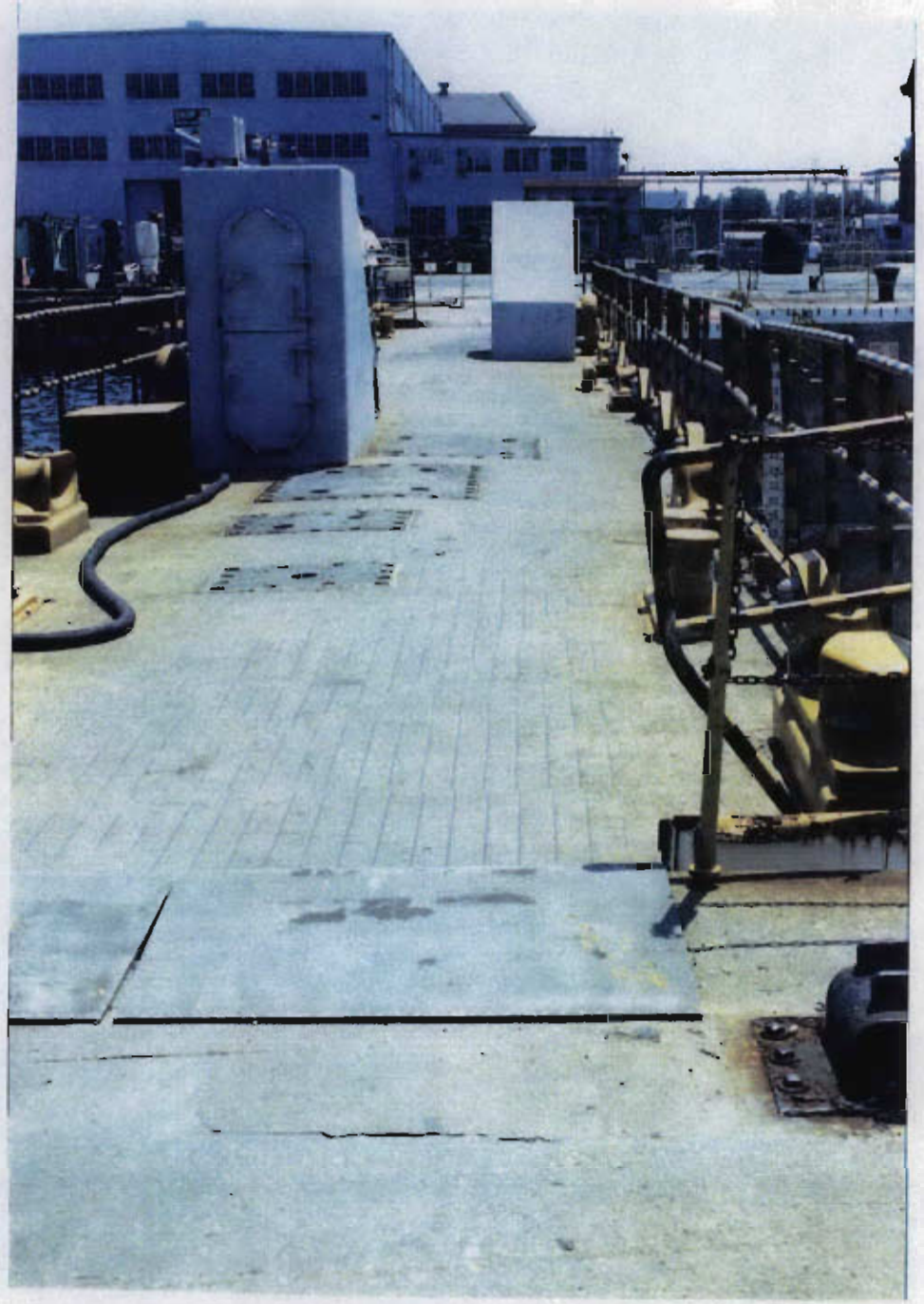
2. Dry Dock 2

f. Prior Photograph

Viewing toward caisson.

2. Dry Dock 2

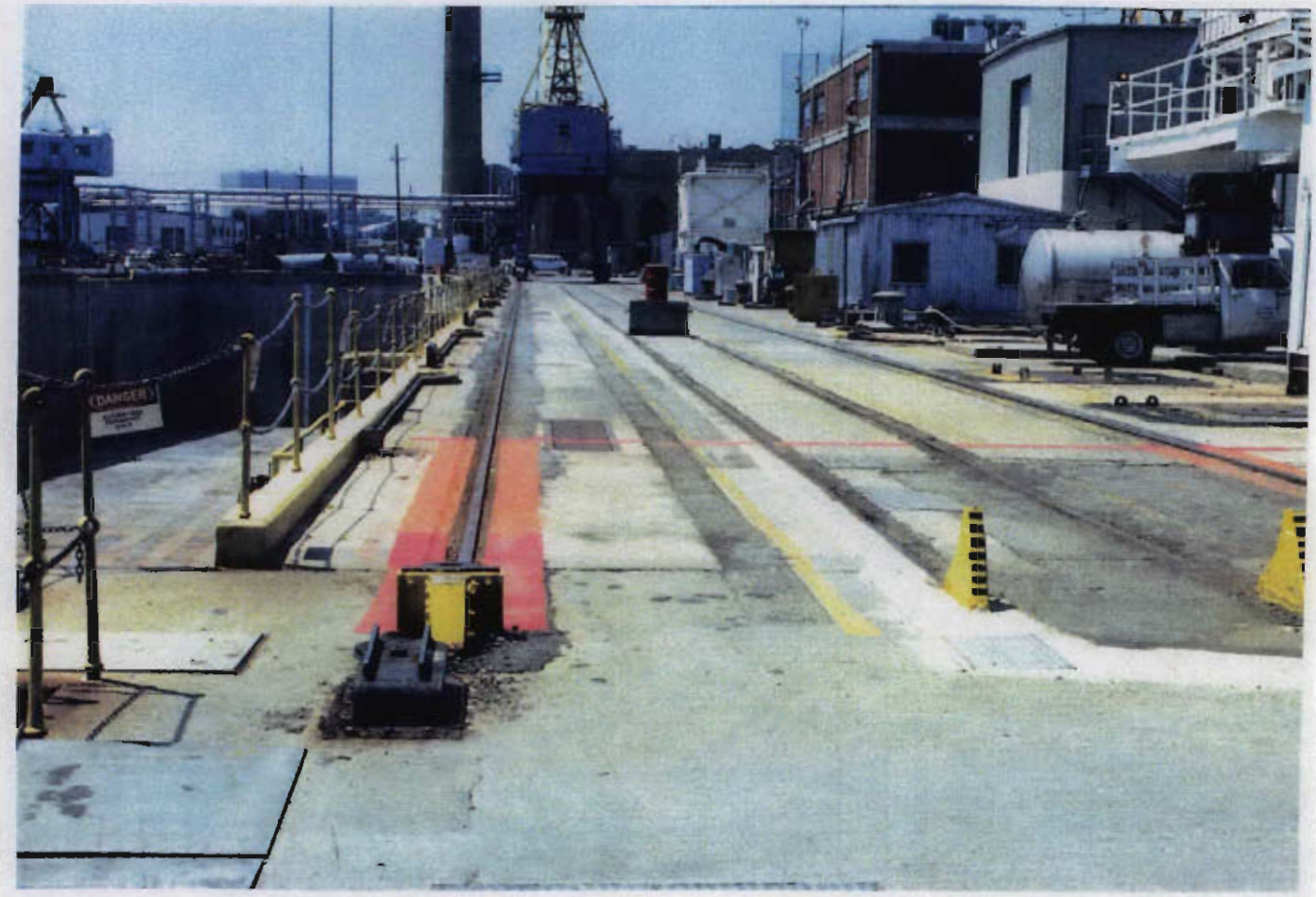
f. Prior Photograph



Viewing top of caisson.

2. Dry Dock 2

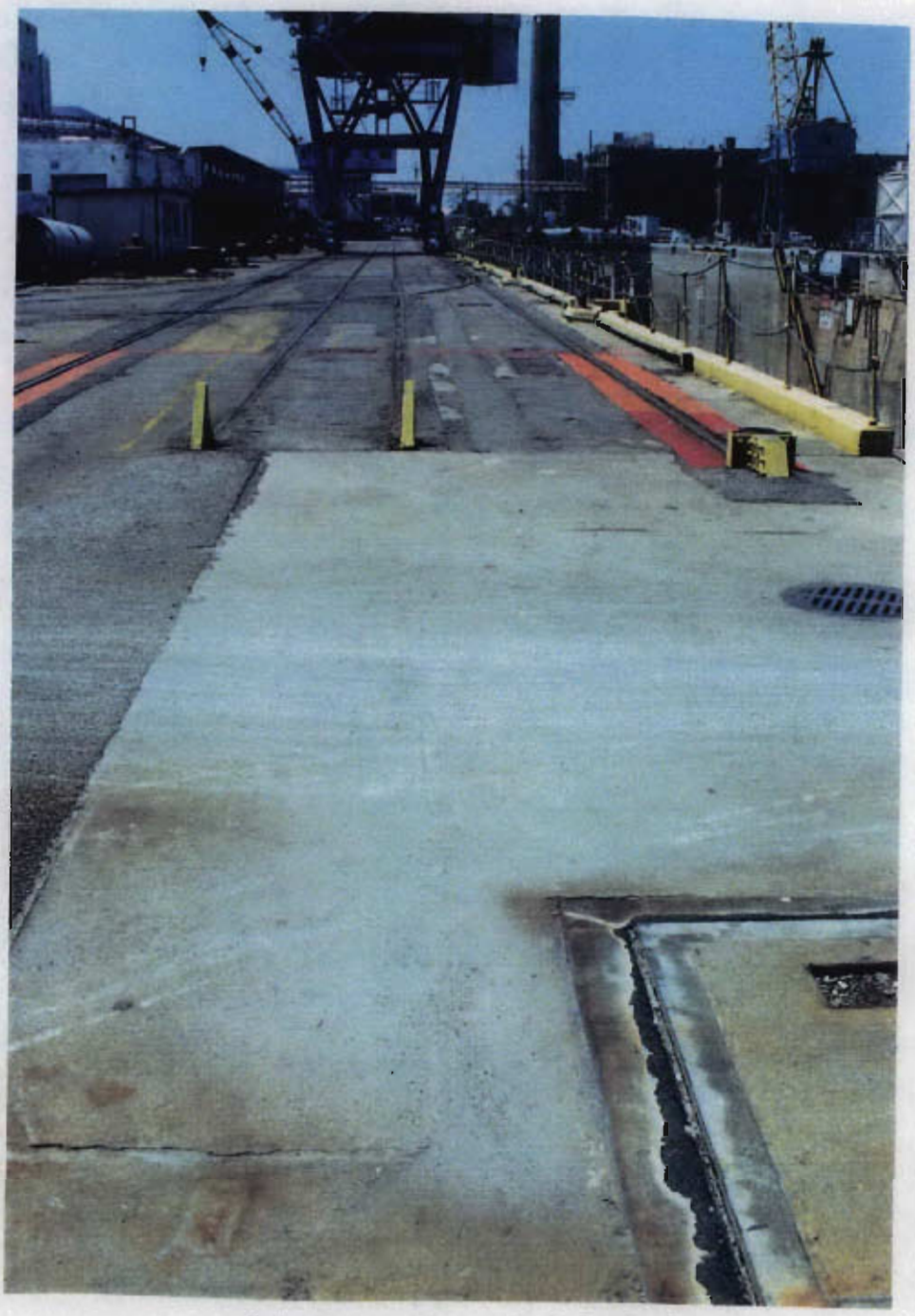
f. Prior Photograph



Adjacent area north of drydock.

2. Dry Dock 2

f. Prior Photograph



Adjacent area south of drydock.

2. Dry Dock 2

g. During Photograph

Viewing toward west wall.

2. Dry Dock 2

h. After Photograph

Looking into drydock, viewing toward west wall.

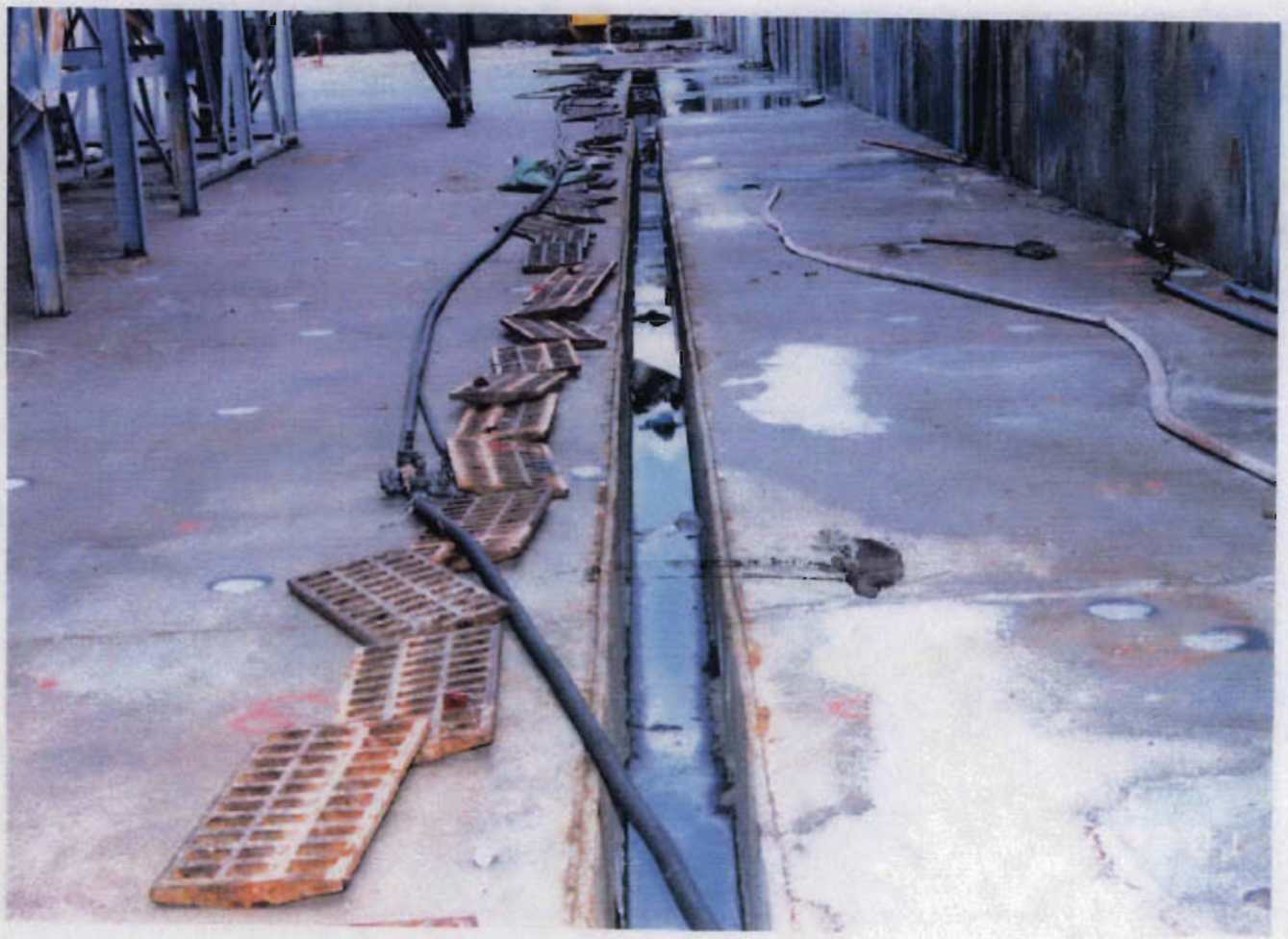
2. Dry Dock 2

h. After Photograph

Floor of drydock, viewing toward caisson.

2. Dry Dock 2

h. After Photograph



Water collection trough in bottom of drydock.

2. Dry Dock 2

h. After Photograph

Adjacent area, west end of drydock.

2. Dry Dock 2

h. After Photograph

Viewing top of caisson.

2. Dry Dock 2

h. After Photograph

Adjacent area north of drydock.

2. Dry Dock 2

h. After Photograph

Adjacent area south of drydock.

3. Dry Dock 3

a. Introduction:

Dry Dock 3 is located in grid D-10 of the Charleston Naval Shipyard map (Figure 10) and was constructed in 1943. Dry Dock 3 is identified as structure 303.

(1) Description:

Structure 303 is rectangular, 351 feet long by 90 feet wide by 30 feet deep and is oriented east into the Cooper River. Dry Dock 3 is constructed of reinforced poured concrete with its caisson consisting of two wooden gates reinforced with metal beams. Personnel stairs are situated on the north and south walls. The adjacent areas were primarily covered with asphalt.

(2) Brief History:

(a) **Use:** This dry dock was built as a facility for the construction of destroyer escorts. In 1942 the Destroyer Escort program was implemented in the South Yard of Naval Base Charleston.

In the mid 1960s this dry dock was used during resin transfers in support of reactor plant decontamination operations. During the 70s maintenance was performed on the radioactive repair barges. After these barges were taken out of service they were placed in long term storage in this dry dock.

(b) **Radiological History:** Areas in this dry dock have been controlled as radiation areas and radioactive material storage areas.

In 1966 and 1967 several resin spills occurred in this dry dock contaminating areas of the dry dock floor and sections of the dry dock wall. These areas were decontaminated to levels less than 450 $\mu\mu Ci/100cm^2$. Loose surface contamination levels were maintained less than 450 $\mu\mu Ci/100cm^2$.

(3) Survey Requirements:

Dry Dock and ships berthing area surveys.

3. Dry Dock 3

b. Discussion:

Floor, walls, and caisson areas with a low potential for contamination were divided into approximately 20' by 20' grid sections. The low potential adjacent areas were divided into 10' by 10' grids. Each 20' by 20' and 10' by 10' grid contained two 3' by 3' subsections which were placed in the areas of highest potential for contamination. Areas in the dry dock and adjacent areas which were known radioactive material 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 grid and subsection was identified with a unique designation.

Each 20' by 20' grid contained two 3' by 3' subsections which were surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). A minimum of 50 percent of the 3' by 3' subsections was surveyed using the IM-253/PD (HV-2 GROSS). Solid material samples were taken from each 3' by 3' grid that 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.

Each 5' by 5' grid was surveyed using the IM-247/PD and the IM-253/PD (HV-1 PHA). A minimum of 25 percent of the total number of 5' by 5' grids was surveyed using the IM-253/PD (HV-2 GROSS).

A minimum of one solid material sample was taken from each 5' by 5' grid and from each 20' by 20' grid on the dry dock floor.

Each 10' by 10' grid contained two 3' by 3' subsections which was located in the area of highest potential for contamination. Each 3' by 3' subsection was surveyed using either the IM-247/PD or the IM-253/PD (HV-1 PHA). Solid material samples were taken from a minimum of 50 percent of the 10' x 10' grids and from each 3' by 3' grid that 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.

Individual backgrounds were used for this dry dock. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the asphalt pours were 70, 350, 8000 counts per minute. These 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 wood were 60,150, 4000 counts per minute. These levels were based upon backgrounds obtained from the wooden boat racks across from Building 246. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the varied natural radioactivity concrete pours were: 60, 200, 4500; 80, 450, 11500; 60, 200, 4000; 80, 300, 10000; 80, 700, 15000; 60, 150, 4,000; 80, 650, 13000; and 60, 200, 8000 counts per minute respectively.

3. Dry Dock 3

These areas were also based upon background radiation levels obtained from Pier X, Building 220 parking area, Dry Dock 2 pump house, Building 81, Building 1079, Building 132, Building 1079, and Building 1893, respectively. The IM-247/PD and the IM-253/PD (HV-1 PHA and HV-2 GROSS) backgrounds used for the metal stairs were 80, 350, 10000 counts per minute which were based upon background radiation levels obtained from Building 27.

A total of 1658 solid material samples was taken. 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: potassium 40, bismuth 214, 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 18 areas greater than or equal to twice background.

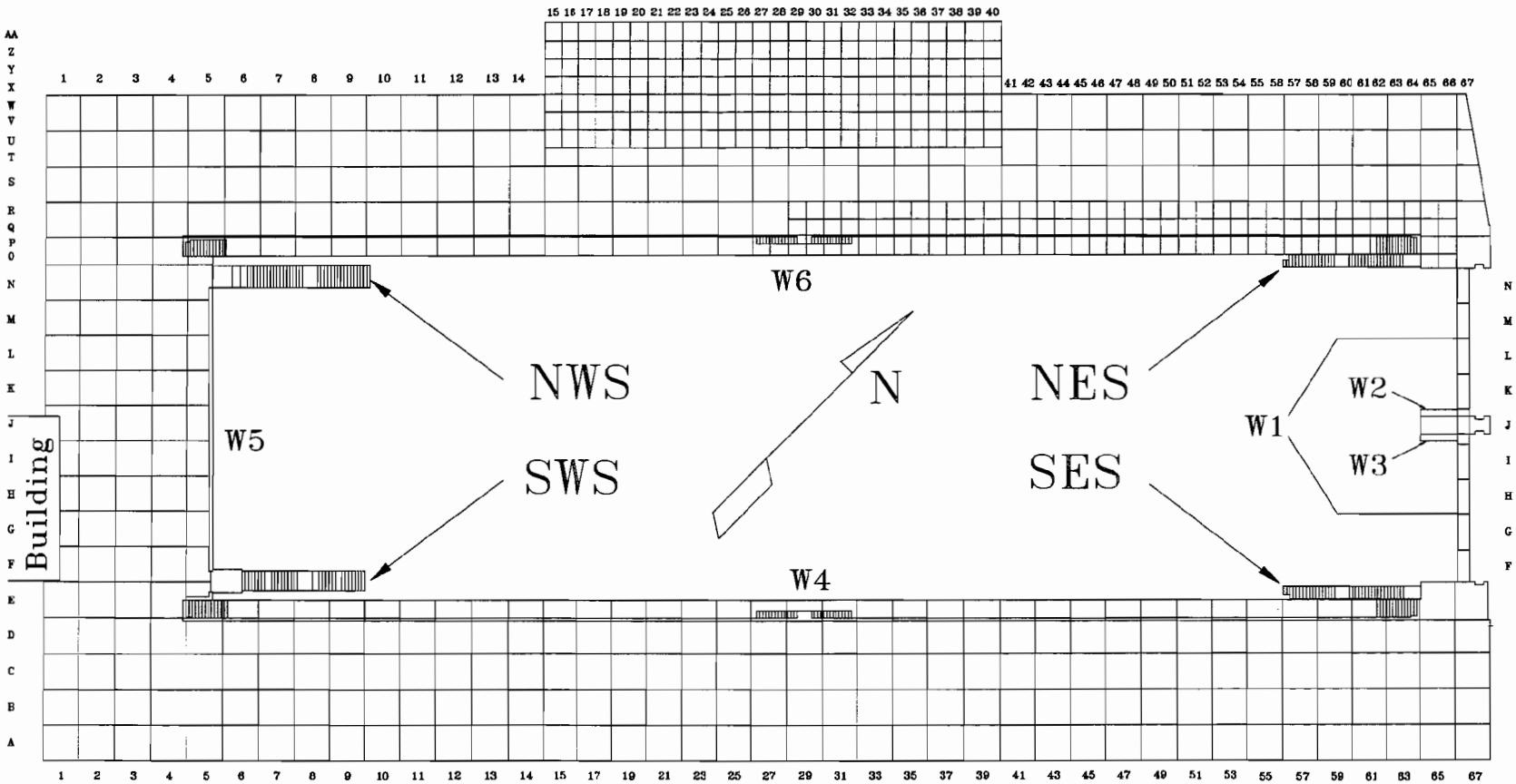
Surveys performed with the IM-253/PD (HV-2 GROSS) detected seven areas greater than or equal to twice background.

Analysis performed on solid material samples with the multi-channel analyzer (MCA) detected gross gamma equivalent cobalt 60 levels ranging from a low of less than 0.38 pCi/g to a high of 42.90 pCi/g.

Analysis performed on solid material samples with the MCA for specific cobalt 60 indicated that solid materials were less than 1 pCi/g for non-paint samples and less than 3 pCi/g for paint samples. However, a total of 24 solid material samples taken from Wall 6 and the adjacent areas were found to have traces of cobalt 60 greater than the minimum detectable activity. For each sample, the extent of the cobalt 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 cobalt 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 cobalt 60. No traces of cobalt 60 were identified.

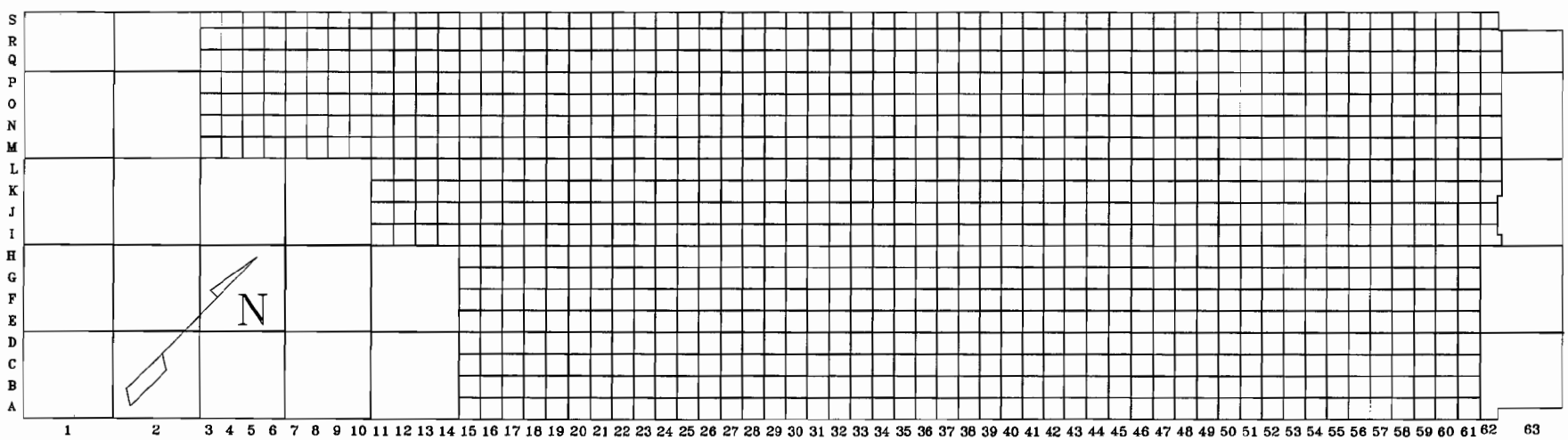
3. Dry Dock 3

d. Overall Grid Map (ADJACENT & STAIRS)



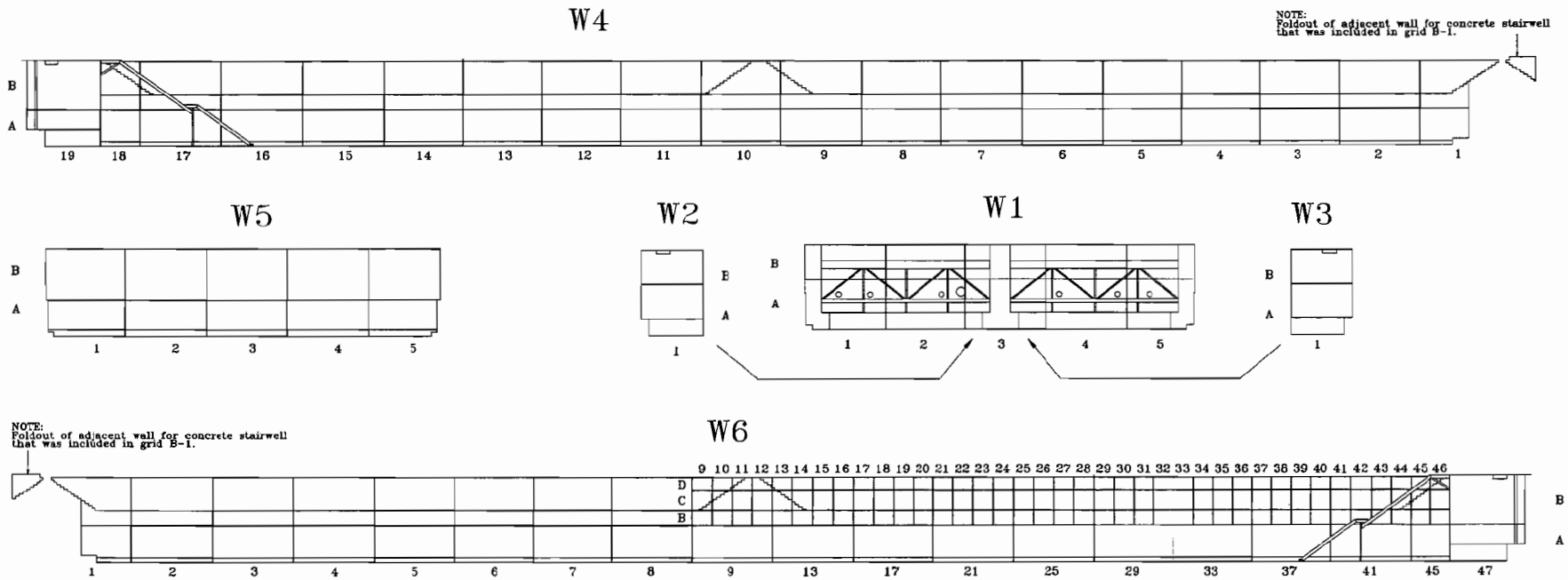
3. Dry Dock 3

d. Overall Grid Map (FLOOR)



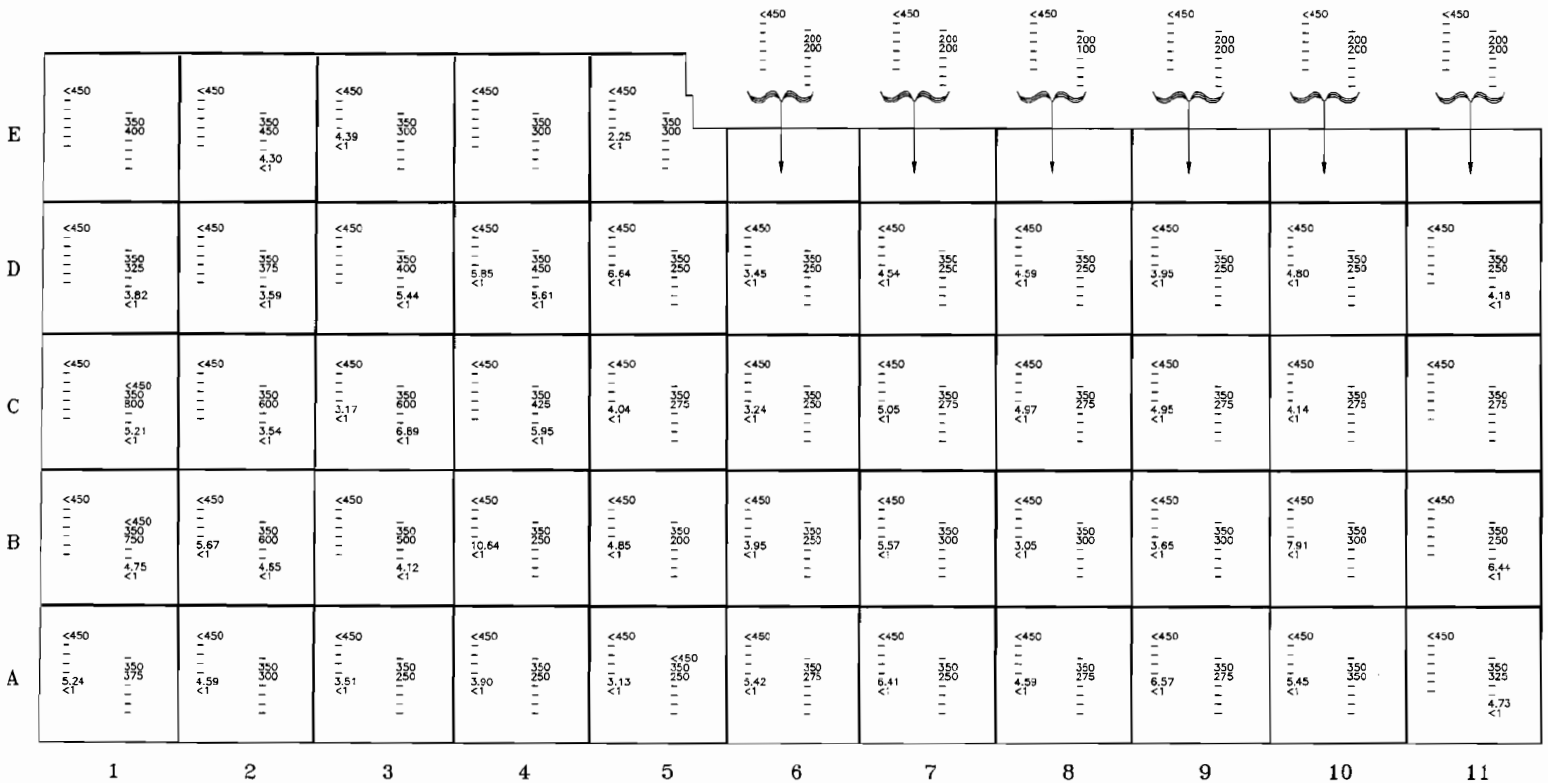
3. Dry Dock 3

d. Overall Grid Map (WALLS)



3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

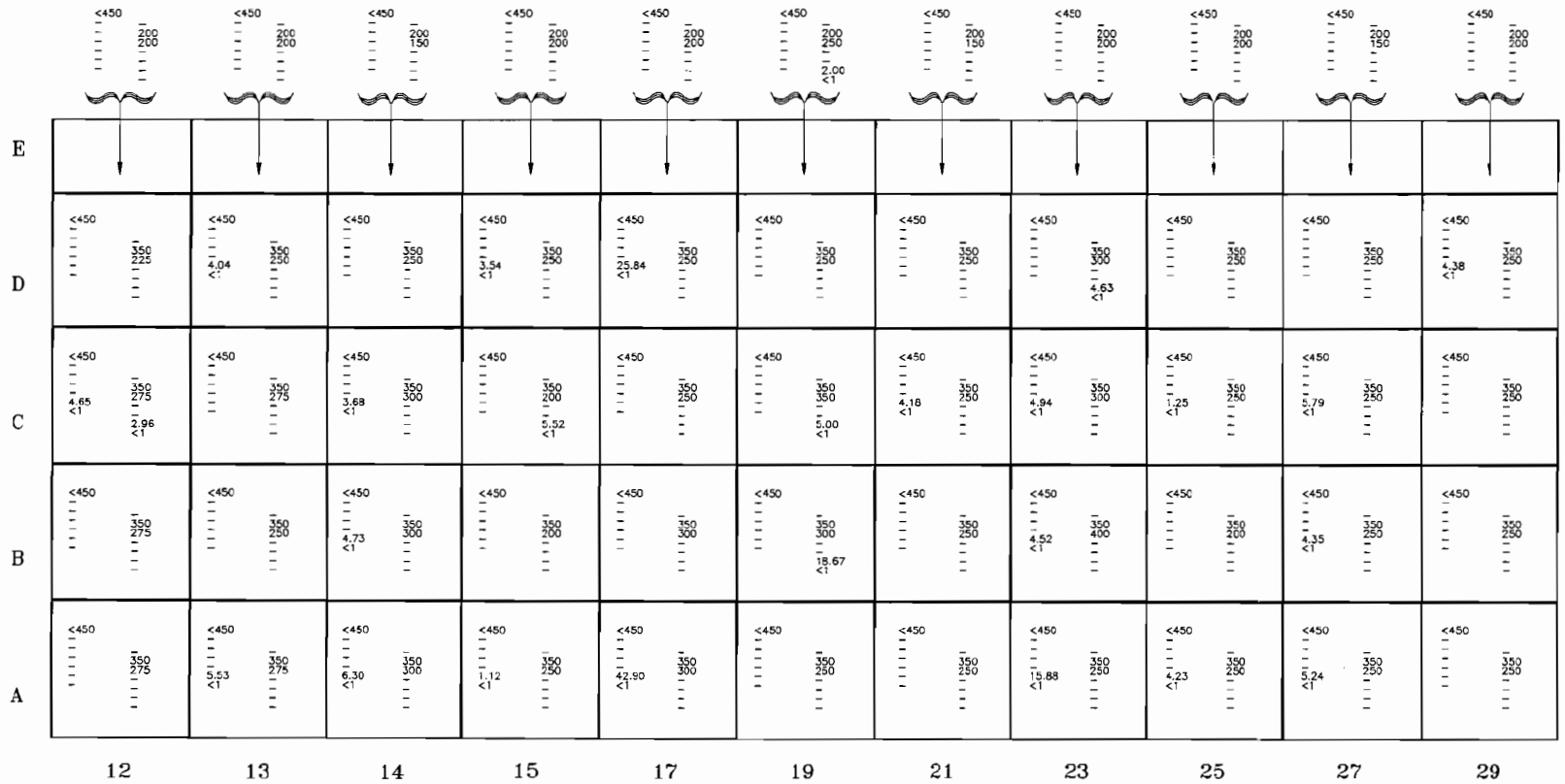


Sample Data

<450 – IM-247/PD Results [μμCi/29cm²]
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]

3. Dry Dock 3

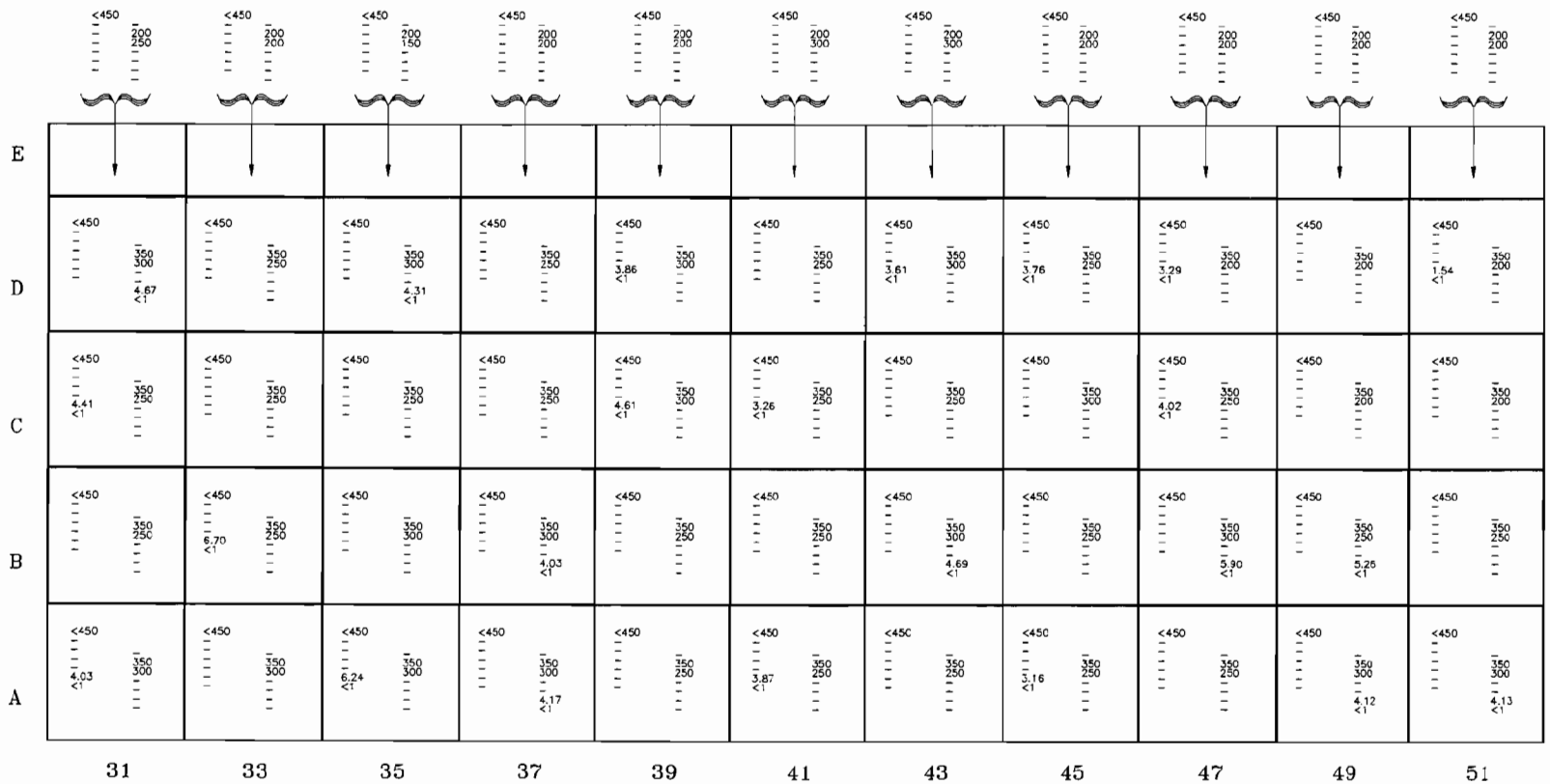
e. Localized Grid Maps (ADJACENT)



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 Specifc Co-60 Results [pCi/g]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

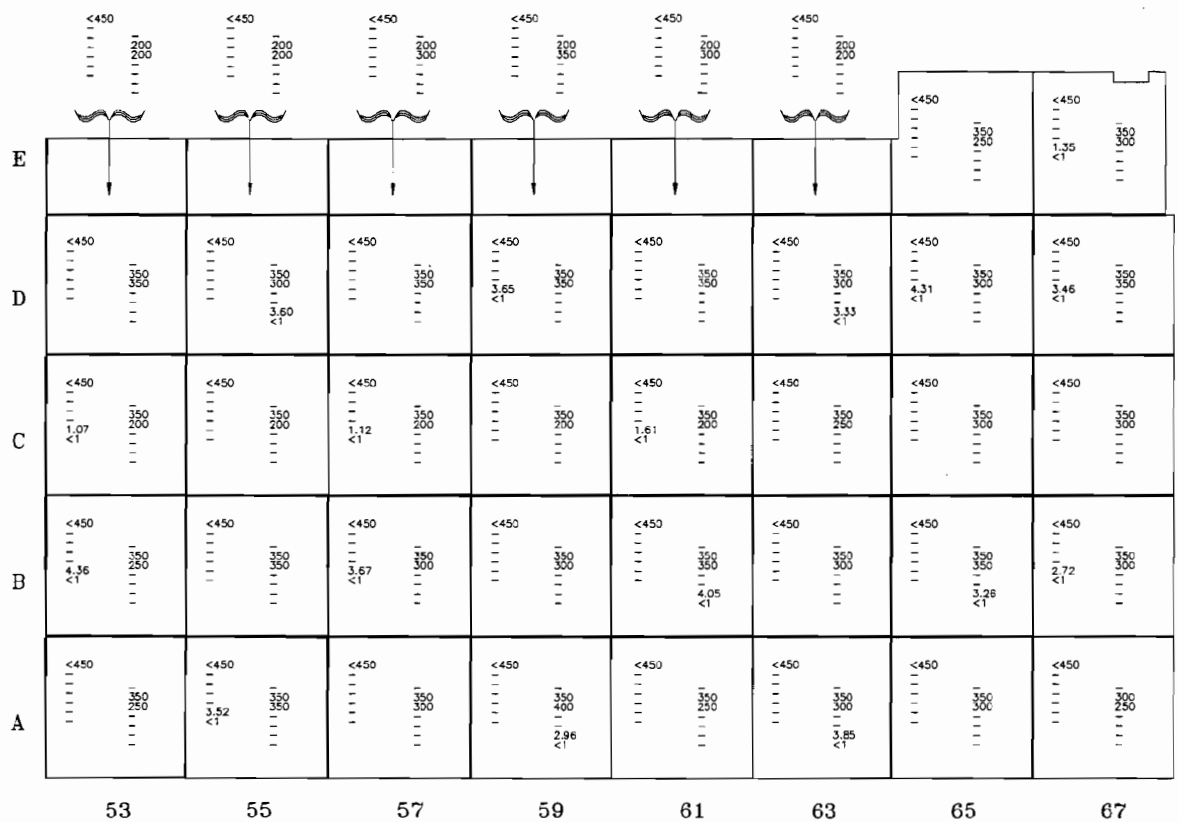


Sample Data

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

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)



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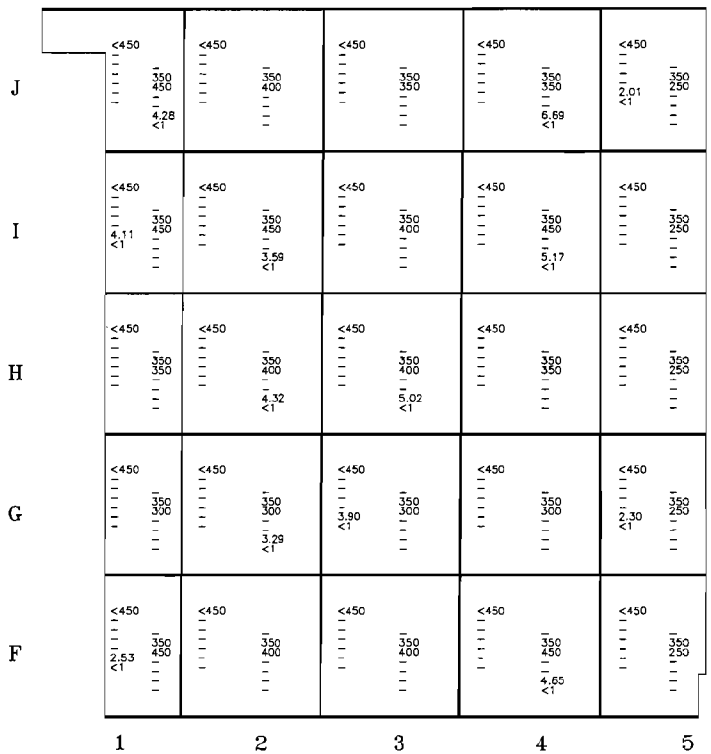
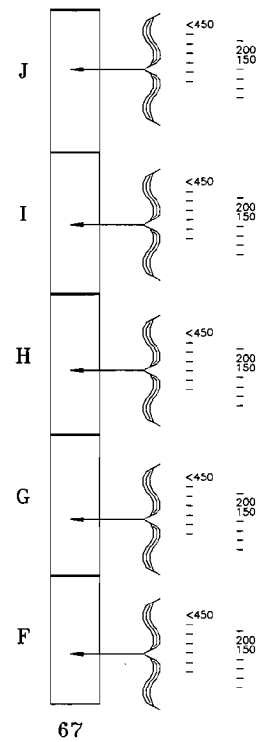
300 – IM-253/PD (-IV-1 PHA) [cpm]
7000 – IM-253/PD (-IV-2 GROSS) [bkg.]
7300 – IM-253/PD (-IV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)





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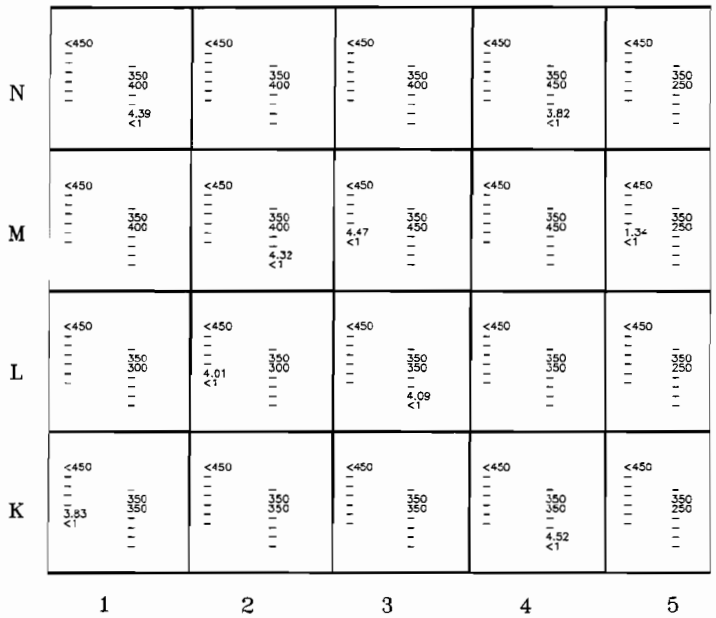
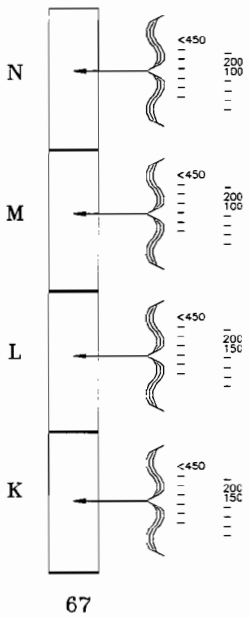
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)





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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

	1	2	3	4	5	6	7	8	9	10	11
V	<450 – – – – 5.74 <1	<450 – – – – 3.95 <1	<450 – – – – 3.12 <1	<450 – – – – –	<450 – – – – 3.62 <1	<450 – – – – –	<450 – – – – 3.59 <1	<450 – – – – –	<450 – – – – 3.26 <1	<450 – – – – –	<450 – – – – –
	350 400 – – – –	350 400 – – – –	350 450 – – – –	350 400 – – – –	350 400 – – – –	350 300 – – – –	350 350 – – – –	350 300 – – – –	350 350 – – – –	350 300 – – – –	350 300 – – – –
T	<450 – – – – –	<450 – – – – –	<450 – – – 2.98 <1	<450 – – – 4.81 <1	<450 – – – – 4.47 <1	<450 – – – – –	<450 – – – – 3.36 <1	<450 – – – – –	<450 – – – – –	<450 – – – – 3.32 <1	<450 – – – – –
	350 400 – – – –	350 450 – 3.97 <1	350 400 – – – –	350 400 – – – –	350 400 – – – –	350 350 – – – –	350 400 – – – –	350 350 – – – –	350 350 – – – –	350 400 – – – –	350 450 – – – –
S	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – 3.17 <1	<450 – – – 3.34 <1	<450 – – – – –	<450 – – – 2.64 <1	<450 – – – 2.97 <1
	350 600 – – 3.41 <1	350 450 – – – –	350 450 – – – –	350 500 – – 3.43 <1	350 500 – – 2.82 <1	350 350 – – – –	350 400 – – – –	350 300 – – – –	350 400 – – – –	350 400 – – – –	350 300 – – – –
Q	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – 3.04 <1	<450 – – – 3.34 <1	<450 – – – – –	<450 – – – – –	<450 – – – 2.31 <1
	350 600 – – – –	350 600 – 3.72 <1	350 550 – 4.01 <1	350 450 – – – –	350 450 – 3.21 <1	350 300 – – – –	350 350 – – – –	350 350 – – – –	350 350 – – – –	350 400 – 3.03 <1	350 350 – – – –
P	<450 – – – – 3.76 <1	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – 2.45 <1	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –	<450 – – – – –
	350 350 – – – –	350 400 – – – –	350 400 – – – –	350 600 – – 4.43 <1	350 350 – – – –	200 225 – – – –	200 200 – – – –	200 200 – – – –	200 200 – – – –	200 175 – – – –	200 175 – – – –
0											

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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

	12	13	14	15	17	19	21	23	25	27	28	29	30
V	<450 – – – 3.79 <1 – 350 350 – – – –	<450 – – – 3.60 <1 – 350 350 – – – –	<450 – – – – – – 350 300 – – – –										
T	<450 – – – 3.36 – – 350 350 – – – –	<450 – – – 4.20 <1 – 350 450 – – – –	<450 – – – – – – 350 400 – – – –	<450 – – – – – – – 350 400 – – 3.77 <1	<450 – – – – – – – 350 200 – – – –	<450 – – – 4.16 <1 – 350 350 – – – –	<450 – – – – – – 350 350 – – – –	<450 – – – 2.45 <1 – 350 400 – – – –	<450 – – – – – – 350 300 – – – –	<450 – – – 4.33 <1 – 350 350 – – – –		<450 – – – – – – 350 300 – – – –	
S	<450 – – – 3.52 <1 – 350 400 – – – –	<450 – – – 2.92 <1 – 350 350 – – – –	<450 – – – – – – 350 300 – – – –	<450 – – – 4.44 <1 – 350 400 – – 3.34 <1	<450 – – – – – – 350 350 – – – –	<450 – – – – – – 350 400 – – 3.16 <1	<450 – – – – – – 350 350 – – – –	<450 – – – 2.35 <1 – 350 350 – – – –	<450 – – – – – – 350 200 – – – –	<450 – – – 2.94 <1 – 350 400 – – – –		<450 – – – – – – 350 300 – – – –	
R	<450 – – – – – – 350 300 – – – –	<450 – – – 3.80 <1 – 350 350 – – – –	<450 – – – – – – 350 250 – – – –	<450 – – – – – – 350 300 – – 3.46 <1	<450 – – – 2.14 <1 – 350 300 – – – –	<450 – – – – – – 350 350 – – – –	<450 – – – 2.14 <1 – 350 350 – – – –	<450 – – – – – – 350 350 – – – –	<450 – – – – – – 350 200 – – 2.68 <1	<450 – – – – – – 350 400 – – – –		<450 350 250 – – 5.55 <1	<450 350 300 – – 2.32 <1
Q												<450 350 300 8000 8000 3.35 <1	<450 350 250 8000 6750 2.34 <1
P	<450 – – – – – – 200 175 – – – –	<450 – – – – – – 200 200 – – – –	<450 – – – – – – 200 200 – – – –	<450 – – – – – – 200 200 – – – –	<450 – – – – – – 200 175 – – – –	<450 – – – – – – 200 175 – – – –	<450 – – – – – – 200 125 – – – –	<450 200 150 – – – – – <450 450 600 – – – –	<450 200 200 – – – – – <450 450 350 – – – –	<450 200 175 – – 0.83	<450 200 150 – – 1.06 <1	<450 200 200 – – 0.88	<450 200 150 – – 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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

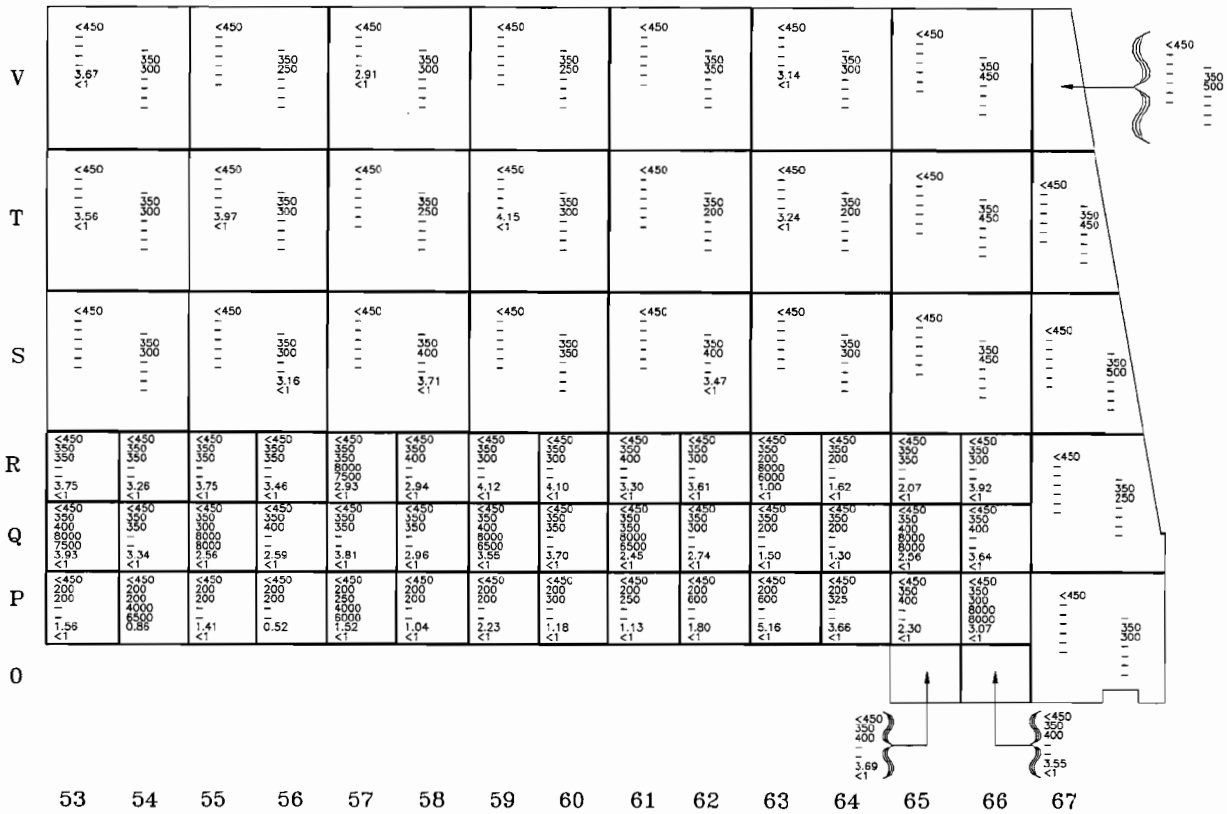
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
V											<450 – – – –	– 350 400 – 3.25 <1	<450 – – – –	– 350 250 – –	<450 – – 2.76 <1	– 350 350 – –	<450 – – – –	– 350 250 – –	<450 – – 3.62 <1	– 350 250 – –	<450 – – – –	– 350 300 – –
T	<450 – – – –	– 350 350 – –	<450 – – 1.72 <1	– 350 300 – –	<450 – – – –	– 350 300 – –	<450 – – 4.48 <1	– 350 350 – –	<450 – – – –	– 350 300 – –	<450 – – 4.03 <1	– 350 400 – –	<450 – – – –	– 350 300 – 2.51 <1	<450 – – – –	– 350 250 – –	<450 – – – –	– 350 250 – –	<450 – – 2.46 <1	– 350 300 – –	<450 – – – –	– 350 250 – –
S	<450 – – – –	– 350 330 – 2.43 <1	<450 – – 3.01 <1	– 350 300 – –	<450 – – – –	– 350 300 – –	<450 – – – –	– 350 300 – –	<450 – – – –	– 350 300 – 3.24 <1	<450 – – – –	– 350 250 – –	<450 – – – –	– 350 300 – 2.98 <1	<450 – – – –	– 350 300 – –	<450 – – 3.28 <1	– 350 300 – –	<450 – – 3.59 <1	– 350 300 – –	<450 – – – –	– 350 300 – 2.75 <1
R	<450 350 300 – 2.19 <1	<450 350 300 8000 6500 2.03 <1	<450 350 300 – 2.37 <1	<450 350 300 – 2.95 <1	<450 350 300 – 2.66 <1	<450 350 300 – 2.91 <1	<450 350 200 – 2.67 <1	<450 350 200 8000 6000 2.80 <1	<450 350 250 – 1.78 <1	<450 350 250 8000 6000 2.56 <1	<450 350 250 – 3.12 <1	<450 350 350 – 2.50 <1	<450 350 300 – 2.63 <1	<450 350 350 8000 6500 1.65 <1	<450 350 400 – 2.07 <1	<450 350 200 – 2.73 <1	<450 350 300 – 3.85 <1	<450 350 350 8000 5000 4.10 <1	<450 350 350 – 3.47 <1	<450 350 350 – 3.20 <1	<450 350 300 – 2.73 <1	<450 350 300 8000 6000 3.74 <1
Q	<450 350 250 – 1.54 <1	<450 350 300 – 2.31 <1	<450 350 300 8000 6000 2.94 <1	<450 350 300 – 2.39 <1	<450 350 300 8000 8000 3.05 <1	<450 350 300 – 2.71 <1	<450 350 250 8000 6000 2.71 <1	<450 350 200 – 1.75 <1	<450 350 200 – 2.34 <1	<450 350 300 – 1.67 <1	<450 350 250 – 2.12 <1	<450 350 400 8000 9000 2.43 <1	<450 350 450 – 1.85 <1	<450 350 500 – 2.22 <1	<450 350 400 – 3.00 <1	<450 350 250 8000 7000 3.16 <1	<450 350 350 – <0.50	<450 350 350 – 2.72 <1	<450 350 350 – 3.02 <1	<450 350 350 8000 6000 3.14 <1	<450 350 300 – 2.80 <1	<450 350 300 – 2.82 <1
P	<450 200 200 – 0.90	<450 200 150 4000 4000 1.19 <1	<450 200 200 – 0.98	<450 200 150 – 0.96	<450 200 200 4000 4000 1.27 <1	<450 200 200 – 1.00 <1	<450 200 200 – 0.87	<450 200 200 4000 4000 1.10 <1	<450 200 200 – 1.17 <1	<450 200 200 4000 4000 1.40 <1	<450 200 200 – 1.05 <1	<450 200 200 4000 4000 1.53 <1	<450 200 200 – 1.32 <1	<450 200 200 – 1.34 <1	<450 200 250 – 1.99 <1	<450 200 250 – 1.91 <1	<450 200 200 4000 5750 0.96	<450 200 200 – 1.19 <1	<450 200 200 4000 6500 0.83	<450 200 200 – 0.85	<450 200 200 4000 7000 <0.45	<450 200 200 – 2.17 <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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)



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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
AA	<450 350 450 – – 3.28 <1	<450 350 450 – – 3.25 <1	<450 350 450 – – 3.66 <1	<450 350 450 – – 3.30 <1	<450 350 450 – – 4.84 <1	<450 350 350 – – 4.52 <1	<450 350 350 – – 4.89 <1	<450 350 350 – – 3.62 <1	<450 350 450 – – 4.11 <1	<450 350 450 – – 7.01 <1	<450 350 300 – – 2.82 <1	<450 350 400 8000 8000 4.77 <1	<450 350 350 – – 4.75 <1	<450 350 350 – – 3.57 <1	<450 350 400 – – 2.16 <1	<450 350 400 – – 3.16 <1	<450 350 350 – – 3.50 <1	<450 350 350 – – 6.50 <1	<450 350 450 – – 5.88 <1	<450 350 400 – – 3.47 <1	<450 350 400 – – 3.14 <1	<450 350 250 – – 3.13 <1
Z	<450 350 450 – – 3.89 <1	<450 350 450 8000 10000 5.26 <1	<450 350 450 – – 4.33 <1	<450 350 350 – – 3.57 <1	<450 350 400 – – 2.80 <1	<450 350 350 – – 4.17 <1	<450 350 350 – – 4.08 <1	<450 350 400 – – 4.61 <1	<450 350 350 – – 4.14 <1	<450 350 400 8000 8000 2.93 <1	<450 350 400 – – 3.47 <1	<450 350 300 – – 3.03 <1	<450 350 250 – – 3.55 <1	<450 350 300 8000 10000 3.28 <1	<450 350 400 – – 4.05 <1	<450 350 350 – – 3.46 <1	<450 350 350 – – 4.44 <1	<450 350 450 – – 5.05 <1	<450 350 400 – – 4.55 <1	<450 350 300 – – 2.97 <1	<450 350 400 – – 3.06 <1	<450 350 250 – – 2.88 <1
Y	<450 350 400 – – 4.39 <1	<450 350 400 – – 4.50 <1	<450 350 450 – – 3.90 <1	<450 350 350 – – 4.24 <1	<450 350 425 – – 3.74 <1	<450 350 250 8000 7000 4.41 <1	<450 350 400 – – 3.37 <1	<450 350 300 8000 10000 3.34 <1	<450 350 400 – – 3.98 <1	<450 350 400 – – 4.11 <1	<450 350 400 8000 8000 3.25 <1	<450 350 300 – – 4.03 <1	<450 350 250 – – 4.19 <1	<450 350 350 – – 3.84 <1	<450 350 400 8000 12500 4.75 <1	<450 350 350 – – 5.43 <1	<450 350 350 – – 4.74 <1	<450 350 350 – – 5.43 <1	<450 350 400 – – 5.23 <1	<450 350 300 8000 10000 2.58 <1	<450 350 300 – – 2.81 <1	<450 350 350 – – 2.88 <1
X	<450 350 400 8000 8000 3.78 <1	<450 350 350 – – 2.30 <1	<450 350 350 8000 8000 3.91 <1	<450 350 350 – – 2.70 <1	<450 350 375 8000 10000 3.25 <1	<450 350 250 – – 3.99 <1	<450 350 350 – – 3.08 <1	<450 350 350 – – 2.67 <1	<450 350 350 8000 8000 2.78 <1	<450 350 400 – – 2.89 <1	<450 350 400 – – 3.19 <1	<450 350 300 – – 2.67 <1	<450 350 350 8000 10000 2.85 <1	<450 350 350 – – 3.55 <1	<450 350 350 – – 5.25 <1	<450 350 400 – – 5.17 <1	<450 350 400 – – 5.06 <1	<450 350 300 8000 10000 4.11 <1	<450 350 300 – – 5.06 <1	<450 350 350 – – 4.12 <1	<450 350 350 – – 3.16 <1	<450 350 250 8000 7500 2.62 <1
W	<450 350 300 – – 3.73 <1	<450 350 350 – – 3.35 <1	<450 350 450 – – 3.82 <1	<450 350 450 8000 8000 4.19 <1	<450 350 425 – – 4.08 <1	<450 350 300 – – 4.85 <1	<450 350 350 8000 8500 3.85 <1	<450 350 350 – – 2.86 <1	<450 350 300 – – 3.38 <1	<450 350 450 8000 8000 3.09 <1	<450 350 300 – – 2.54 <1	<450 350 300 8000 8000 3.62 <1	<450 350 400 – – 3.19 <1	<450 350 400 8000 8000 2.86 <1	<450 350 400 – – 4.27 <1	<450 350 400 8000 8750 4.99 <1	<450 350 300 – – 3.91 <1	<450 350 250 – – 4.14 <1	<450 350 300 8000 7500 5.85 <1	<450 350 400 – – 2.43 <1	<450 350 300 8000 7000 3.47 <1	<450 350 300 – – 3.05 <1
V	<450 350 350 – – 4.66 <1	<450 350 350 8000 9000 3.72 <1	<450 350 450 – – 4.84 <1	<450 350 450 8000 8500 2.05 <1	<450 350 350 – – 3.83 <1	<450 350 250 8000 8500 4.88 <1	<450 350 400 – – 3.51 <1	<450 350 300 8000 10000 2.76 <1	<450 350 350 – – 2.70 <1	<450 350 400 – – 2.39 <1	<450 350 250 – – 2.71 <1	<450 350 350 – – 4.16 <1	<450 350 400 – – 3.12 <1	<450 350 450 – – 3.04 <1	<450 350 400 – – 3.13 <1	<450 350 300 – – 3.52 <1	<450 350 300 8000 10000 3.80 <1	<450 350 300 – – 4.90 <1	<450 350 300 – – 5.64 <1	<450 350 350 – – 2.96 <1	<450 350 350 – – 2.02 <1	<450 350 350 – – 3.86 <1
U	<450 350 400 8000 8000 4.17 <1	<450 350 300 – – 3.14 <1	<450 350 300 8000 8000 3.47 <1	<450 350 400 – – 1.40 <1	<450 350 400 8000 10000 3.84 <1	<450 350 300 – – 3.45 <1	<450 350 400 8000 8000 3.02 <1	<450 350 350 – – 2.92 <1	<450 350 400 8000 8000 2.82 <1	<450 350 300 – – 2.73 <1	<450 350 200 8000 8000 3.91 <1	<450 350 400 – – 4.73 <1	<450 350 400 – – 3.36 <1	<450 350 400 8000 7500 4.56 <1	<450 350 350 – – 3.51 <1	<450 350 350 – – 5.88 <1	<450 350 300 – – 0.52	<450 350 300 8000 8000 3.03 <1	<450 350 300 – – 1.24 <1	<450 350 350 8000 8000 4.03 <1	<450 350 300 – – 3.42 <1	<450 350 350 8000 9000 3.17 <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]

3. Dry Dock 3

e. Localized Grid Maps (ADJACENT)

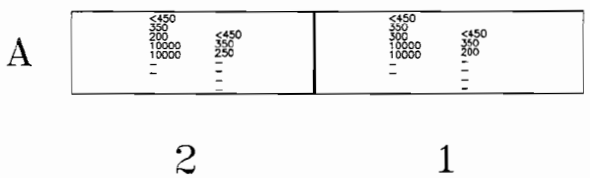
	37	38	39	40
AA	<450 350 400 – – 2.52 <1	<450 350 300 – – 3.01 <1	<450 350 300 – – 3.12 <1	<450 350 300 – – 3.77 <1
Z	<450 350 350 8000 8000 3.24 <1	<450 350 350 – – 3.81 <1	<450 350 350 – – 2.61 <1	<450 350 500 – – 2.92 <1
Y	<450 350 250 – – 3.05 <1	<450 350 250 – – 2.74 <1	<450 350 300 8000 7000 3.46 <1	<450 350 300 – – 2.97 <1
X	<450 350 250 – – 2.64 <1	<450 350 300 – – 3.46 <1	<450 350 300 – – 3.52 <1	<450 350 350 – – 3.66 <1
W	<450 350 250 – – 3.16 <1	<450 350 250 8000 9000 3.46 <1	<450 350 350 – – 3.51 <1	<450 350 350 8000 6000 3.33 <1
V	<450 350 350 – – 3.07 <1	<450 350 350 – – 2.89 <1	<450 350 350 – – 2.88 <1	<450 350 350 – – 2.83 <1
U	<450 350 400 – – 6.16 <1	<450 350 350 – – 2.55 <1	<450 350 300 8000 6000 4.14 <1	<450 350 350 – – 2.99 <1

Sample Data

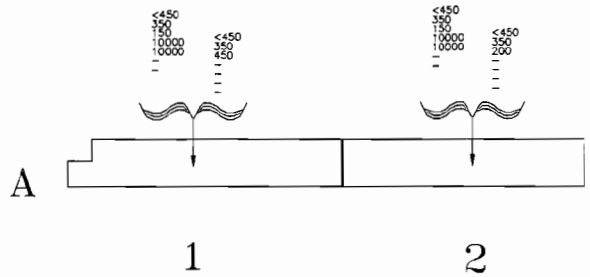
<450 – IM-247/PD Results [μμCi/20cm²]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

3. Dry Dock 3

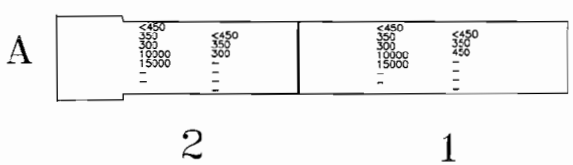
e. Localized Grid Maps (STAIRS)



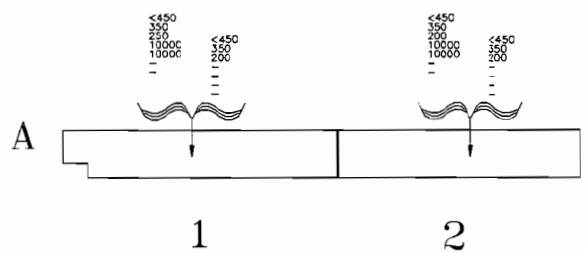
NORTHWEST STAIRS



NORTHEAST STAIRS



SOUTHWEST STAIRS



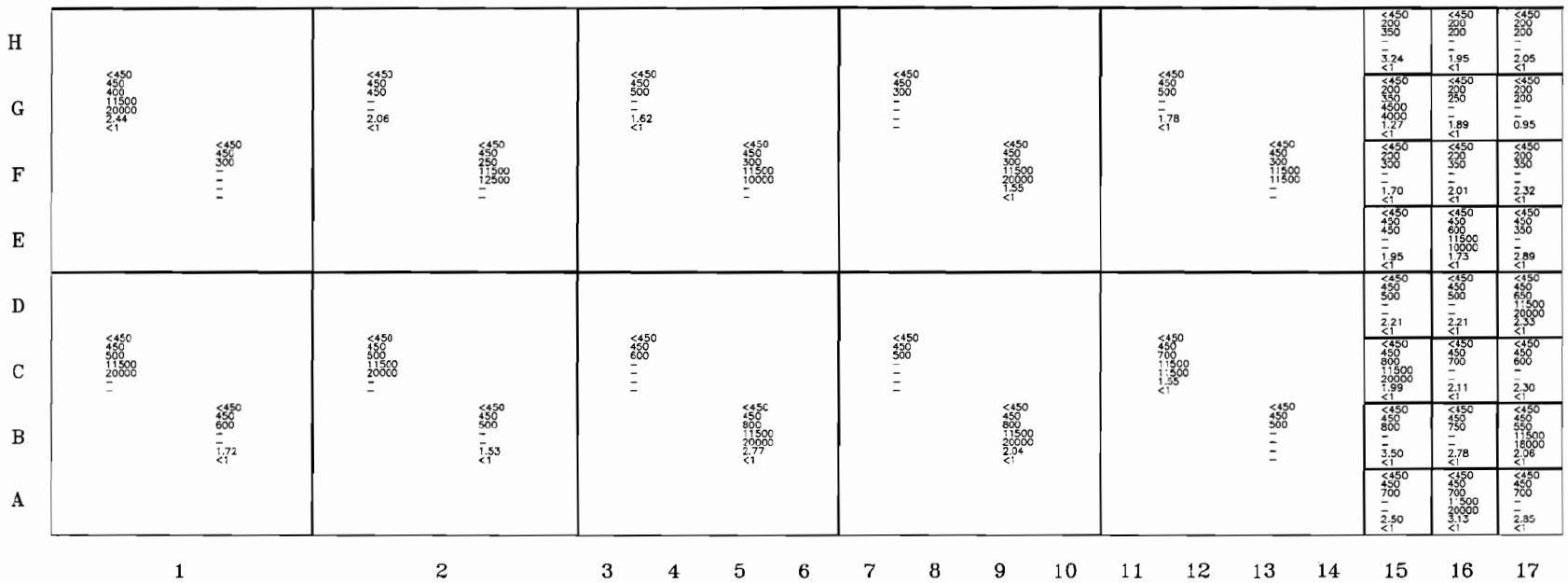
SOUTHEAST STAIRS

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]

3. Dry Dock 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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
P	<450 450 300 11500 12500 3.19 <1	<450 450 300 11500 10000 – –	<450 450 450 11500 11500 2.65 <1	<450 450 750 – – 5.30 <1	<450 450 600 – – 2.50 <1	<450 450 500 11500 11500 1.62 <1	<450 450 450 – – 2.51 <1	<450 450 600 – – 1.72 <1	<450 450 600 – – 2.66 <1	<450 450 550 – – 2.42 <1	<450 450 600 11500 15000 2.03 <1	<450 450 600 – – 2.49 <1	<450 450 750 11500 15000 2.12 <1	<450 450 600 – – 3.04 <1	<450 450 650 – – 1.62 <1	<450 450 600 – – 2.42 <1	<450 450 600 – – 1.67 <1
O			<450 450 450 – – 1.97 <1	<450 450 600 – – 1.84 <1	<450 450 550 – – 2.19 <1	<450 450 550 – – 1.34 <1	<450 450 500 11500 15000 3.36 <1	<450 450 600 – – 1.63 <1	<450 450 450 11500 15000 2.12 <1	<450 450 450 – – 1.73 <1	<450 450 500 – – 3.19 <1	<450 450 500 – – 2.17 <1	<450 450 600 – – 2.81 <1	<450 450 500 – – 2.21 <1	<450 450 650 11500 15000 <0.45	<450 450 630 – – 1.38 <1	<450 450 600 – – 1.96 <1
N	<450 450 300 – – –	<450 450 300 – – 2.11 <1	<450 450 600 – – 1.55 <1	<450 450 600 – – 2.76 <1	<450 450 450 11500 11500 1.63 <1	<450 450 450 – – 1.39 <1	<450 450 500 – – 2.01 <1	<450 450 450 – – 2.06 <1	<450 450 450 – – 1.98 <1	<450 450 600 – – 3.63 <1	<450 450 450 – – 2.94 <1	<450 450 450 11500 12500 2.42 <1	<450 450 450 – – 2.00 <1	<450 450 450 – – 4.88 <1	<450 450 450 – – 1.24 <1	<450 450 630 – – 2.23 <1	<450 450 500 11500 15000 2.49 <1
M			<450 450 550 11500 11500 1.50 <1	<450 450 600 – – 2.97 <1	<450 450 600 – – 2.20 <1	<450 450 600 – – 2.18 <1	<450 450 600 11500 15000 2.04 <1	<450 450 550 – – 1.81 <1	<450 450 660 – – 1.47 <1	<450 450 550 11500 15000 2.56 <1	<450 450 650 – – 2.39 <1	<450 450 600 – – 2.15 <1	<450 450 550 – – 1.96 <1	<450 450 550 11500 15000 1.81 <1	<450 450 650 – – 1.50 <1	<450 450 630 11500 15000 1.67 <1	<450 450 500 – – 1.97 <1
L											<450 450 550 – – 2.62 <1	<450 450 600 11500 15000 2.53 <1	<450 450 600 – – 2.82 <1	<450 450 600 – – 3.20 <1	<450 450 700 – – 1.92 <1	<450 450 630 – – 1.77 <1	<450 450 550 – – 2.11 <1
K	<450 450 200 11500 12500 – –	<450 450 550 11500 17500 1.79 <1	<450 450 600 11500 20000 1.68 <1				<450 450 550 – – – –				<450 450 600 – – 3.88 <1	<450 450 600 – – 2.15 <1	<450 450 650 – – 3.05 <1	<450 450 600 11500 15000 4.42 <1	<450 450 700 – – 2.59 <1	<450 450 530 11500 23000 2.55 <1	<450 450 500 – – 1.78 <1
J	<450 450 350 – – 3.20 <1	<450 450 500 – – – –			<450 450 550 – – – –				<450 450 600 11500 20000 1.30 <1		<450 450 600 – – 1.18 <1	<450 450 600 11500 15000 1.87 <1	<450 450 500 – – 2.11 <1	<450 450 650 – – 2.00 <1	<450 450 200 – – 2.22 <1	<450 450 630 – – 2.20 <1	<450 450 600 11500 15000 1.95 <1
I											<450 450 500 – – 1.57 <1	<450 450 550 – – 2.06 <1	<450 450 600 – – 2.71 <1	<450 450 500 11500 15000 3.30 <1	<450 200 200 – – 3.34 <1	<450 220 220 4500 5300 2.25 <1	<450 200 150 – – 1.97 <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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			<450 450 600 – – 2.44 <1	<450 450 750 11500 20000 2.10 <1	<450 450 700 – – 3.03 <1	<450 450 750 – – 4.05 <1	<450 450 500 – – 2.53 <1	<450 450 900 11500 20000 2.97 <1	<450 450 600 – – 2.29 <1	<450 450 500 – – 1.37 <1	<450 450 700 – – 2.80 <1	<450 450 700 – – 1.85 <1	<450 450 600 – – 1.98 <1	<450 450 650 11500 20000 1.70 <1	<450 450 630 – – 1.97 <1	<450 450 750 11500 20000 1.70 <1	<450 450 700 – – 2.37 <1
S																	
R	<450 450 400 11500 15000 2.35 <1 <450 450 300 – – – –	<450 450 400 – – 2.13 <1 <450 450 300 11500 10000 – –	<450 450 600 – – 2.72 <1	<450 450 650 – – 3.09 <1	<450 450 700 – – 2.53 <1	<450 450 650 11500 20000 2.31 <1	<450 450 700 – – 2.84 <1	<450 450 500 – – 2.48 <1	<450 450 650 – – 1.76 <1	<450 450 550 11500 20000 1.89 <1	<450 450 600 – – 2.12 <1	<450 450 600 11500 20000 2.15 <1	<450 450 600 – – 2.12 <1	<450 450 600 – – 1.22 <1	<450 450 630 – – 3.29 <1	<450 450 660 – – 1.80 <1	<450 450 700 – – 2.67 <1
Q			<450 450 500 – – 3.11 <1	<450 450 500 11500 22000 2.42 <1	<450 450 600 – – 2.29 <1	<450 450 700 – – 2.33 <1	<450 450 550 – – 1.70 <1	<450 450 900 11500 15000 2.58 <1	<450 450 600 – – 2.35 <1	<450 450 550 – – 1.67 <1	<450 450 600 – – 1.66 <1	<450 450 650 – – 3.04 <1	<450 450 600 – – 1.63 <1	<450 450 650 11500 15000 2.60 <1	<450 450 630 – – 4.39 <1	<450 450 650 11500 16000 2.51 <1	<450 450 600 – – 2.27 <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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
J	<450 450 600 – – 2.24 <1	<450 200 350 4500 8500 1.68 <1	<450 200 350 – – 1.71 <1	<450 450 350 – – 1.79 <1	<450 450 350 – – 1.79 <1	<450 450 600 – – 2.35 <1	<450 450 500 – – 1.66 <1	<450 450 450 11500 15000 2.29 <1	<450 450 650 – – 1.55 <1	<450 450 500 11500 15000 2.16 <1	<450 450 600 – – 2.42 <1	<450 450 600 – – 1.11 <1	<450 450 600 – – 2.17 <1	<450 450 600 – – 2.14 <1	<450 450 700 11500 15000 1.68 <1	<450 450 700 – – 2.82 <1	<450 450 600 – – 1.44 <1	<450 450 700 11500 20000 2.50 <1	<450 450 550 – – 2.28 <1	<450 450 550 – – 3.77 <1	<450 450 550 – – 1.77 <1	<450 450 600 11500 15000 1.60 <1	<450 450 600 – – 2.24 <1
I	<450 200 200 – – 1.71 <1	<450 200 350 – – 1.12 <1	<450 200 350 – – 1.43 <1	<450 450 350 11500 5500 0.84 <1	<450 450 400 – – 1.67 <1	<450 450 550 11500 15000 1.84 <1	<450 450 550 – – 1.67 <1	<450 450 550 – – 2.31 <1	<450 450 650 – – 2.45 <1	<450 450 500 – – 1.46 <1	<450 450 600 – – 2.47 <1	<450 450 550 11500 15000 3.92 <1	<450 450 550 – – 2.38 <1	<450 450 800 – – 2.86 <1	<450 450 750 – – 2.30 <1	<450 450 600 – – 3.15 <1	<450 450 500 11500 15000 2.38 <1	<450 450 600 – – 3.26 <1	<450 450 650 – – 1.56 <1	<450 450 550 11500 15000 1.93 <1	<450 450 550 – – 2.78 <1	<450 450 550 – – 2.06 <1	<450 450 650 – – 3.25 <1
H	<450 200 200 4500 4000 1.56 <1	<450 200 250 – – 0.77 <1	<450 200 250 – – 1.50 <1	<450 450 300 – – 1.79 <1	<450 450 500 11500 12500 2.56 <1	<450 450 600 – – 1.57 <1	<450 450 550 – – 2.61 <1	<450 450 500 11500 15000 1.96 <1	<450 450 600 – – 3.26 <1	<450 450 500 – – 1.82 <1	<450 450 550 – – 1.90 <1	<450 450 600 – – 2.12 <1	<450 450 600 11500 15000 2.24 <1	<450 450 500 11500 15000 2.28 <1	<450 450 600 – – 2.12 <1	<450 450 550 11500 15000 2.16 <1	<450 450 550 – – 2.00 <1	<450 450 500 – – 1.43 <1	<450 450 500 11500 17500 1.14 <1	<450 450 500 – – 1.80 <1	<450 450 800 11500 19500 1.59 <1	<450 450 550 – – 1.89 <1	<450 450 550 – – 2.80 <1
G	<450 200 200 – – 3.00 <1	<450 200 150 – – 2.12 <1	<450 200 200 4500 4500 2.76 <1	<450 450 300 – – 2.20 <1	<450 450 600 – – 1.81 <1	<450 450 550 11500 15000 2.26 <1	<450 450 600 – – 1.89 <1	<450 450 500 – – 1.86 <1	<450 450 600 – – 1.68 <1	<450 450 450 – – 1.84 <1	<450 450 600 11500 15000 1.91 <1	<450 450 650 – – 1.58 <1	<450 450 700 – – 2.12 <1	<450 450 600 – – 2.58 <1	<450 450 500 – – 2.02 <1	<450 450 550 – – 2.56 <1	<450 450 550 11500 17500 3.13 <1	<450 450 600 – – 2.79 <1	<450 450 600 – – 2.71 <1	<450 450 500 – – 1.94 <1	<450 450 500 – – 1.81 <1	<450 450 550 – – 1.72 <1	<450 450 550 – – 2.25 <1
F	<450 200 200 4500 4000 2.25 <1	<450 200 250 – – 2.02 <1	<450 200 200 – – 1.98 <1	<450 450 450 – – 1.55 <1	<450 450 450 11500 15000 1.35 <1	<450 450 500 – – 1.85 <1	<450 450 500 – – 1.73 <1	<450 450 450 – – 2.01 <1	<450 450 600 11500 15000 2.49 <1	<450 450 400 – – 2.03 <1	<450 450 600 – – 1.94 <1	<450 450 650 – – 1.48 <1	<450 450 600 11500 15000 1.76 <1	<450 450 500 – – 2.61 <1	<450 450 550 11500 17500 1.61 <1	<450 450 500 – – 1.91 <1	<450 450 550 – – 2.55 <1	<450 450 600 – – 2.35 <1	<450 450 600 – – 2.39 <1	<450 450 600 11500 15000 1.91 <1	<450 450 600 – – 2.30 <1	<450 450 600 – – 2.60 <1	<450 450 600 11500 17500 2.65 <1
E	<450 450 400 – – 2.97 <1	<450 450 450 – – 3.04 <1	<450 450 450 11500 17500 1.36 <1	<450 450 450 – – 2.40 <1	<450 450 450 – – 2.02 <1	<450 450 450 – – 2.28 <1	<450 450 400 11500 5000 1.58 <1	<450 450 450 – – 2.20 <1	<450 450 500 – – 1.42 <1	<450 450 300 – – 1.74 <1	<450 450 500 11500 15000 1.69 <1	<450 450 650 – – 2.19 <1	<450 450 650 – – 2.35 <1	<450 450 450 – – 1.58 <1	<450 450 500 – – 1.06 <1	<450 450 400 – – .87 <1	<450 450 450 – – 1.72 <1	<450 450 450 11500 19500 3.07 <1	<450 450 600 – – 2.58 <1	<450 450 500 – – 2.30 <1	<450 450 400 – – 2.16 <1	<450 450 600 11500 15000 1.96 <1	<450 450 500 11500 17500 2.33 <1
D	<450 450 500 – – 2.61 <1	<450 450 600 – – 6.42 <1	<450 450 550 – – 1.04 <1	<450 450 600 – – 2.48 <1	<450 450 450 11500 15000 1.59 <1	<450 450 250 – – 1.42 <1	<450 450 450 – – 1.65 <1	<450 450 400 – – 1.79 <1	<450 450 450 11500 11500 1.64 <1	<450 450 450 – – 1.53 <1	<450 450 550 – – 2.13 <1	<450 450 500 11500 15000 3.31 <1	<450 450 600 – – 1.91 <1	<450 450 500 11500 15000 1.91 <1	<450 450 550 – – 1.99 <1	<450 450 550 – – 2.74 <1	<450 450 550 11500 15000 1.76 <1	<450 450 600 – – 2.10 <1	<450 450 600 – – 2.26 <1	<450 450 450 11500 17500 2.71 <1	<450 450 600 – – 2.20 <1	<450 450 600 11500 17000 2.04 <1	<450 450 450 – – 1.70 <1
C	<450 450 500 – – 2.59 <1	<450 450 550 – – 2.42 <1	<450 450 600 11500 15000 1.81 <1	<450 450 650 – – 2.34 <1	<450 450 450 – – 2.26 <1	<450 450 300 – – 1.49 <1	<450 450 200 11500 7500 1.91 <1	<450 450 400 – – 2.37 <1	<450 450 600 – – 1.80 <1	<450 450 400 11500 15000 1.86 <1	<450 450 600 – – 2.01 <1	<450 450 575 – – 1.71 <1	<450 450 600 – – 2.56 <1	<450 450 675 – – 1.89 <1	<450 450 525 – – 1.66 <1	<450 450 500 – – 2.33 <1	<450 450 550 – – 2.99 <1	<450 450 600 11500 15000 2.64 <1	<450 450 500 – – 2.28 <1	<450 450 500 – – 2.19 <1	<450 450 600 – – 2.01 <1	<450 450 600 – – 1.61 <1	<450 450 400 – – 2.47 <1
B	<450 450 550 – – 2.31 <1	<450 450 550 – – 2.12 <1	<450 450 800 – – 1.47 <1	<450 450 650 – – 2.62 <1	<450 450 600 – – 1.40 <1	<450 450 300 – – 1.62 <1	<450 450 250 – – 0.80	<450 450 450 – – 1.44 <1	<450 450 450 11500 15000 1.96 <1	<450 450 450 – – 2.15 <1	<450 450 500 – – 1.80 <1	<450 450 500 – – 1.77 <1	<450 450 600 11500 15000 2.99 <1	<450 450 600 – – 2.17 <1	<450 450 525 11500 15000 2.73 <1	<450 450 550 – – 1.88 <1	<450 450 500 – – 2.18 <1	<450 450 600 – – 2.87 <1	<450 450 600 – – 2.08 <1	<450 450 550 – – 2.10 <1	<450 450 600 11500 17500 2.44 <1	<450 450 650 – – 1.94 <1	<450 450 650 – – 2.13 <1
A	<450 450 500 – – 1.88 <1	<450 450 600 11500 15000 1.86 <1	<450 450 600 – – 4.19 <1	<450 450 600 11500 15000 2.71 <1	<450 450 400 – – 1.92 <1	<450 450 250 – – 1.28 <1	<450 450 500 11500 15000 0.92	<450 450 500 – – 2.08 <1	<450 450 500 – – 1.73 <1	<450 450 500 – – 1.58 <1	<450 450 600 11500 15000 1.88 <1	<450 450 500 – – 1.83 <1	<450 450 500 – – 1.64 <1	<450 450 650 – – 2.32 <1	<450 450 550 – – 2.02 <1	<450 450 550 – – 2.86 <1	<450 450 600 11500 15000 2.10 <1	<450 450 575 – – 1.63 <1	<450 450 550 11500 23000 1.62 <1	<450 450 550 – – 2.53 <1	<450 450 600 – – 1.43 <1	<450 450 600 – – 2.06 <1	<450 450 650 11500 15000 2.94 <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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	<450 450 400 – – 1.75 <1	<450 450 600 11500 20000 2.57 <1	<450 450 700 – – 2.41 <1	<450 450 600 – – 2.73 <1	<450 450 800 – – 2.99 <1	<450 450 700 – – 2.21 <1	<450 450 700 – – 2.73 <1	<450 450 700 – – 2.04 <1	<450 450 650 11500 18000 2.41 <1	<450 450 700 – – 1.74 <1	<450 450 650 – – 2.08 <1	<450 450 750 – – 1.96 <1	<450 450 800 11500 20000 2.54 <1	<450 450 600 – – 1.33 <1	<450 450 650 – – 1.72 <1	<450 450 700 – – 1.34 <1	<450 450 650 11500 20000 2.10 <1	<450 450 700 – – 1.45 <1	<450 450 600 11500 15000 2.14 <1	<450 450 500 – – 0.91	<450 450 600 11500 15000 3.38 <1	<450 450 450 – – 3.36 <1	<450 450 450 – – 0.74
S																							
R	<450 450 400 11500 17000 1.72 <1	<450 450 600 – – 2.47 <1	<450 450 650 – – 2.16 <1	<450 450 600 – – 2.63 <1	<450 450 600 11500 20000 2.50 <1	<450 450 600 – – 2.04 <1	<450 450 650 – – 3.17 <1	<450 450 500 – – 1.61 <1	<450 450 650 – – 1.90 <1	<450 450 600 – – 1.8: <1	<450 450 550 11500 20000 1.56 <1	<450 450 750 – – 2.25 <1	<450 450 800 – – 2.72 <1	<450 450 600 – – 2.02 <1	<450 450 800 11500 17500 2.40 <1	<450 450 700 – – 2.47 <1	<450 450 650 – – 2.97 <1	<450 450 500 – – 0.78	<450 450 600 – – 2.22 <1	<450 450 550 – – 1.69 <1	<450 450 600 – – 1.92 <1	<450 450 600 – – 1.95 <1	<450 450 650 11500 17500 1.13 <1
Q	<450 450 400 – – 2.70 <1	<450 450 600 – – 1.70 <1	<450 450 550 – – 1.94 <1	<450 450 600 11500 20000 2.06 <1	<450 450 600 – – 1.68 <1	<450 450 800 11500 15000 2.63 <1	<450 450 550 – – 1.79 <1	<450 450 550 11500 15000 1.53 <1	<450 450 550 – – 1.74 <1	<450 450 700 – – 1.45 <1	<450 450 650 – – 1.43 <1	<450 450 650 11500 20000 1.95 <1	<450 450 600 – – 2.71 <1	<450 450 700 – – 2.42 <1	<450 450 750 – – 2.55 <1	<450 450 650 11500 17500 1.18 <1	<450 450 500 – – 0.59	<450 450 550 – – 1.56 <1	<450 450 600 – – 2.47 <1	<450 450 500 11500 20000 1.42 <1	<450 450 600 – – 1.15 <1	<450 450 500 – – 2.22 <1	<450 450 450 – – 0.93
P	<450 350 500 11500 15000 1.55 <1	<450 450 550 – – 2.30 <1	<450 450 500 11500 15000 1.99 <1	<450 450 450 – – 2.44 <1	<450 450 550 11500 17500 2.68 <1	<450 450 600 – – 1.78 <1	<450 450 600 – – 2.38 <1	<450 450 550 – – 1.25 <1	<450 450 550 11500 15000 2.41 <1	<450 450 600 11500 13500 1.20 <1	<450 450 550 – – 1.69 <1	<450 450 600 – – 2.10 <1	<450 450 550 11500 13000 1.99 <1	<450 450 800 11500 20000 1.37 <1	<450 450 750 – – 2.08 <1	<450 450 700 – – 2.63 <1	<450 450 500 11500 17500 2.42 <1	<450 450 700 – – 1.80 <1	<450 450 450 11500 15500 1.57 <1	<450 450 450 – – 1.11 <1	<450 450 600 11500 15000 1.77 <1	<450 450 500 – – 1.74 <1	<450 450 450 11500 10000 1.45 <1
O	<450 450 500 – – 2.13 <1	<450 450 450 – – 2.88 <1	<450 450 450 – – 0.80	<450 450 500 – – 2.20 <1	<450 450 550 – – 1.55 <1	<450 450 550 – – 2.50 <1	<450 450 550 11500 20000 2.93 <1	<450 450 650 – – 1.50 <1	<450 450 500 – – 1.64 <1	<450 450 450 – – 1.56 <1	<450 450 500 11500 13500 1.86 <1	<450 450 550 – – 2.31 <1	<450 450 550 – – 2.92 <1	<450 450 550 – – 2.23 <1	<450 450 800 – – 1.46 <1	<450 450 600 – – 1.56 <1	<450 450 450 – – 1.62 <1	<450 450 600 – – .66 <1	<450 450 600 – – 1.47 <1	<450 450 500 – – 1.43 <1	<450 450 550 – – 1.50 <1	<450 450 450 – – 1.33 <1	<450 450 450 – – 1.21 <1
N	<450 450 400 – – 2.23 <1	<450 450 400 – – 1.35 <1	<450 450 350 11500 9500 0.79	<450 450 350 – – 2.46 <1	<450 450 350 – – 1.92 <1	<450 450 200 – – 2.16 <1	<450 450 250 – – 1.80 <1	<450 450 250 – – 1.51 <1	<450 450 300 11500 7500 0.97	<450 450 500 – – 1.33 <1	<450 450 450 – – 2.16 <1	<450 450 350 – – 1.63 <1	<450 450 450 – – 1.97 <1	<450 450 500 – – 1.62 <1	<450 450 750 11500 15000 1.91 <1	<450 450 500 – – 2.17 <1	<450 450 400 – – 1.75 <1	<450 450 500 11500 15000 .56 <1	<450 450 200 – – 1.55 <1	<450 450 450 – – 2.00 <1	<450 450 600 – – 2.51 <1	<450 450 500 11500 15000 2.54 <1	<450 450 500 – – <0.38
M	<450 450 600 – – 2.80 <1	<450 450 400 – – 1.79 <1	<450 450 350 – – 2.58 <1	<450 450 350 – – 2.28 <1	<450 450 400 11500 10000 1.60 <1	<450 450 350 – – 2.24 <1	<450 450 150 11500 10000 .62 <1	<450 450 150 – – 1.67 <1	<450 450 400 – – 1.70 <1	<450 450 430 – – 1.09 <1	<450 450 400 – – 1.67 <1	<450 450 350 – – 0.88	<450 450 550 11500 13000 1.78 <1	<450 450 600 – – 2.17 <1	<450 450 800 – – 1.46 <1	<450 450 600 – – .86 <1	<450 450 500 11500 17500 2.53 <1	<450 450 600 – – 1.89 <1	<450 450 650 – – 1.90 <1	<450 450 600 – – 2.30 <1	<450 450 550 11500 15000 2.12 <1	<450 450 550 – – 2.35 <1	<450 450 650 – – 2.59 <1
L	<450 450 650 11500 15000 1.61 <1	<450 450 400 11500 11500 1.24 <1	<450 450 350 – – 1.49 <1	<450 450 450 – – 0.93	<450 450 400 – – 1.27 <1	<450 450 500 – – 1.54 <1	<450 450 400 – – 1.30 <1	<450 450 300 – – 0.99	<450 450 450 11500 10000 0.87	<450 450 350 – – 0.51	<450 450 450 11500 12500 1.25 <1	<450 450 550 – – <0.41	<450 450 550 – – 2.24 <1	<450 450 750 – – 3.52 <1	<450 450 800 11500 15000 1.36 <1	<450 450 750 – – 2.63 <1	<450 450 550 – – 1.74 <1	<450 450 500 – – 4.99 <1	<450 450 500 11500 15000 3.01 <1	<450 450 500 – – 1.42 <1	<450 450 500 – – 2.47 <1	<450 450 500 11500 15000 1.91 <1	<450 450 600 – – 2.33 <1
K	<450 450 600 – – 1.35 <1	<450 450 450 – – 2.52 <1	<450 450 350 – – 1.52 <1	<450 450 400 11500 15000 2.1 <1	<450 450 400 – – 1.12 <1	<450 450 350 11500 10000 1.40 <1	<450 450 450 – – 0.63	<450 450 350 – – 1.60 <1	<450 450 450 – – 1.27 <1	<450 450 350 – – 1.25 <1	<450 450 450 – – 0.66	<450 450 450 – – 1.40 <1	<450 450 550 11500 15000 .72 <1	<450 450 800 – – 3.35 <1	<450 450 800 – – .64 <1	<450 450 650 – – 4.42 <1	<450 450 450 11500 15000 2.14 <1	<450 450 550 – – 1.89 <1	<450 450 600 – – 4.62 <1	<450 450 650 11500 15000 2.56 <1	<450 450 500 – – 2.55 <1	<450 450 600 – – 1.53 <1	<450 450 600 – – 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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
J	<450 450 500 – – 1.79 <1	<450 450 700 – – 1.52 <1	<450 450 500 – – 1.64 <1	<450 200 550 4500 15000 1.94 <1	<450 200 550 – – 1.82 <1	<450 200 550 4500 15000 1.42 <1	<450 450 400 – – 1.80 <1	<450 450 400 – – 1.87 <1	<450 450 400 – – 2.14 <1	<450 450 400 – – 3.18 <1	<450 200 350 4500 5000 1.95 <1	<450 200 350 – – 1.55 <1	<450 200 350 – – 2.08 <1	<450 200 350 – – 1.47 <1	<450 450 600 – – 2.08 <1	<450 450 600 – – 2.34 <1	<450 450 600 – – 1.93 <1	<450 200 500 4500 12500 1.65 <1	<450 200 450 – – 2.22 <1	<450 200 450 4500 12500 1.87 <1	<450 200 450 – – 2.45 <1
I	<450 450 650 11500 15000 1.34 <1	<450 450 550 – – 1.80 <1	<450 450 550 – – 7.75 <1	<450 200 350 – – 1.75 <1	<450 200 200 – – 2.02 <1	<450 200 300 – – 1.87 <1	<450 200 300 – – 1.22 <1	<450 200 200 – – 1.34 <1	<450 200 150 4000 4000 1.74 <1	<450 200 200 – – 1.29 <1	<450 200 200 – – 1.40 <1	<450 200 200 – – 1.21 <1	<450 200 200 – – 2.24 <1	<450 200 200 4500 5000 1.27 <1	<450 450 450 – – 3.75 <1	<450 450 450 11500 15000 2.27 <1	<450 450 250 – – 0.98	<450 200 200 – – 1.64 <1	<450 200 150 – – 2.10 <1	<450 200 150 – – 1.45 <1	<450 200 150 – – 1.53 <1
H	<450 450 550 – – 2.74 <1	<450 450 600 – – 1.70 <1	<450 450 550 – – 2.35 <1	<450 200 350 4500 8500 1.39 <1	<450 200 300 – – 1.79 <1	<450 200 300 4500 8500 1.63 <1	<450 200 200 – – 1.70 <1	<450 200 200 4500 4500 1.50 <1	<450 200 200 – – 1.56 <1	<450 200 200 4500 4500 1.62 <1	<450 200 200 – – 1.50 <1	<450 200 200 – – 0.48	<450 200 200 4500 4500 1.24 <1	<450 200 200 – – 1.32 <1	<450 450 600 – – 2.06 <1	<450 450 400 – – 2.15 <1	<450 450 300 11500 15000 1.76 <1	<450 200 300 – – 1.67 <1	<450 200 200 4500 4000 1.55 <1	<450 200 200 – – 4.96 <1	<450 200 150 4500 5000 2.80 <1
G	<450 450 550 – – 1.71 <1	<450 450 650 – – 1.77 <1	<450 450 500 – – 1.49 <1	<450 200 350 – – 1.25 <1	<450 200 250 – – 1.42 <1	<450 200 200 – – 1.41 <1	<450 200 200 – – 1.90 <1	<450 200 200 – – 1.02 <1	<450 200 200 – – 1.72 <1	<450 200 200 – – 1.88 <1	<450 200 200 4500 4500 1.35 <1	<450 200 200 – – 3.14 <1	<450 200 225 – – 2.95 <1	<450 200 200 – – 1.43 <1	<450 450 700 – – 0.94	<450 450 600 11500 11500 1.51 <1	<450 450 600 – – 1.12 <1	<450 200 200 – – 1.30 <1	<450 200 200 – – 1.43 <1	<450 200 200 – – 1.09 <1	<450 200 200 – – 1.01 <1
F	<450 450 550 11500 15000 1.61 <1	<450 450 500 – – 1.67 <1	<450 450 450 – – 1.43 <1	<450 200 150 – – 2.08 <1	<450 200 350 4500 15000 1.37 <1	<450 200 250 – – 2.24 <1	<450 200 300 4500 4000 3.53 <1	<450 200 250 – – 2.53 <1	<450 200 200 4500 4000 2.71 <1	<450 200 200 – – 1.79 <1	<450 200 200 – – 2.12 <1	<450 200 200 – – 1.20 <1	<450 200 200 – – 1.34 <1	<450 200 350 4500 5000 1.17 <1	<450 450 500 – – 1.72 <1	<450 450 500 – – 1.75 <1	<450 450 400 – – 2.18 <1	<450 200 200 4500 4500 1.91 <1	<450 200 200 – – 1.56 <1	<450 200 200 – – 1.62 <1	<450 200 200 4500 4000 2.19 <1
E	<450 450 450 – – 1.85 <1	<450 450 450 – – 2.17 <1	<450 450 450 11500 15000 2.41 <1	<450 450 450 – – 2.63 <1	<450 450 500 – – 2.71 <1	<450 450 600 – – 2.26 <1	<450 450 450 – – 5.72 <1	<450 450 550 – – 2.84 <1	<450 450 450 – – 2.01 <1	<450 450 450 – – 2.29 <1	<450 450 500 – – 1.67 <1	<450 350 550 11500 10000 1.84 <1	<450 350 400 – – 2.04 <1	<450 450 500 – – 1.76 <1	<450 450 500 – – 2.17 <1	<450 450 500 11500 15000 2.40 <1	<450 450 500 – – 2.39 <1	<450 450 450 – – 2.53 <1	<450 450 450 – – 2.44 <1	<450 200 300 – – 1.62 <1	<450 450 400 – – 1.89 <1
D	<450 450 500 11500 12500 2.93 <1	<450 450 450 – – 1.98 <1	<450 450 500 – – 3.39 <1	<450 450 450 – – 1.82 <1	<450 450 600 11500 17500 2.72 <1	<450 450 450 – – 2.17 <1	<450 450 450 11500 20000 2.54 <1	<450 450 500 – – 1.69 <1	<450 450 550 11500 15000 1.65 <1	<450 450 500 – – 1.98 <1	<450 450 550 11500 15000 2.63 <1	<450 450 550 – – 1.53 <1	<450 450 600 11500 15000 1.29 <1	<450 450 600 – – 1.14 <1	<450 450 500 – – 2.38 <1	<450 450 500 – – 1.82 <1	<450 450 500 – – <0.45	<450 450 500 11500 15000 2.34 <1	<450 450 450 – – 2.19 <1	<450 450 550 11500 15000 2.85 <1	<450 450 550 – – 2.46 <1
C	<450 450 550 – – 2.13 <1	<450 450 550 – – 3.45 <1	<450 450 500 – – 1.91 <1	<450 450 450 11500 17500 1.98 <1	<450 450 600 – – 2.86 <1	<450 450 650 – – 1.76 <1	<450 450 650 – – 2.41 <1	<450 450 550 – – 2.22 <1	<450 450 550 – – 2.32 <1	<450 450 550 – – 2.89 <1	<450 450 550 – – 2.11 <1	<450 450 500 – – 2.37 <1	<450 450 600 – – 1.97 <1	<450 450 500 – – 2.98 <1	<450 450 550 11500 15000 2.04 <1	<450 450 600 – – 2.20 <1	<450 450 650 – – 2.21 <1	<450 450 500 – – 5.22 <1	<450 450 500 – – 2.50 <1	<450 450 550 – – 4.20 <1	<450 450 550 – – 1.91 <1
B	<450 450 500 – – 1.73 <1	<450 450 200 11500 11500 1.89 <1	<450 450 700 – – 1.81 <1	<450 450 450 – – 1.58 <1	<450 450 500 – – 2.47 <1	<450 450 600 11500 17500 1.70 <1	<450 450 600 – – 2.05 <1	<450 450 550 – – 2.19 <1	<450 450 550 – – 2.57 <1	<450 450 550 11500 15000 1.63 <1	<450 450 550 – – 2.46 <1	<450 450 500 11500 15000 1.91 <1	<450 450 550 – – 2.13 <1	<450 450 500 – – 2.86 <1	<450 450 500 – – 1.54 <1	<450 450 650 – – 2.98 <1	<450 450 550 11500 15000 1.47 <1	<450 450 500 – – 2.48 <1	<450 450 500 – – 2.60 <1	<450 450 550 – – 1.99 <1	<450 450 500 11500 15000 1.89 <1
A	<450 450 500 – – 1.91 <1	<450 450 200 – – 2.12 <1	<450 450 750 – – 2.41 <1	<450 450 450 11500 17500 3.62 <1	<450 450 600 – – 1.93 <1	<450 450 650 – – 1.74 <1	<450 450 600 – – 2.20 <1	<450 450 600 11500 15000 1.67 <1	<450 450 500 – – 2.15 <1	<450 450 500 – – 1.99 <1	<450 450 500 – – 1.60 <1	<450 450 500 – – 2.18 <1	<450 450 500 – – 2.57 <1	<450 450 500 11500 15000 1.56 <1	<450 450 550 – – 1.73 <1	<450 450 600 11500 15000 2.00 <1	<450 450 600 – – 2.32 <1	<450 450 550 – – 1.81 <1	<450 450 550 11500 17500 1.78 <1	<450 450 450 – – 2.56 <1	<450 450 450 – – 2.53 <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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

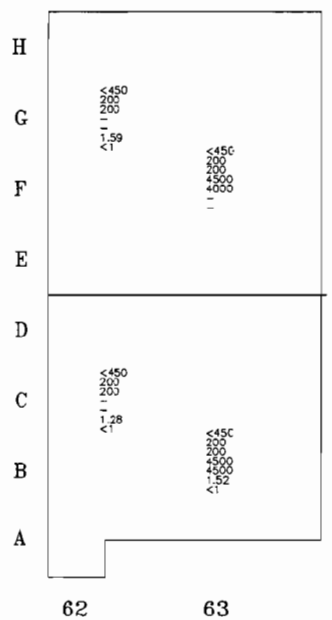
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
	<450 450 450 – – 1.31 <1	<450 450 300 11500 17500 1.41 <1	<450 450 550 – – 2.50 <1	<450 450 750 – – 2.68 <1	<450 450 550 – – 1.69 <1	<450 450 550 11500 15000 1.64 <1	<450 450 600 – – 1.40 <1	<450 450 600 – – 1.83 <1	<450 450 650 – – 1.92 <1	<450 450 600 11500 18000 2.82 <1	<450 450 750 – – 2.10 <1	<450 450 700 – – 1.58 <1	<450 450 650 – – 1.67 <1	<450 450 700 11500 15000 1.62 <1	<450 450 600 – – 1.78 <1	<450 450 600 – – 2.20 <1	<450 450 650 11500 20000 2.01 <1	<450 450 600 – – 2.33 <1	<450 450 450 11500 20000 2.31 <1	<450 450 450 – – 1.84 <1	<450 450 450 – – 1.85 <1
S																					
R	<450 450 450 – – 1.47 <1	<450 450 300 – – 1.52 <1	<450 450 650 – – 1.51 <1	<450 450 700 11500 15000 1.71 <1	<450 450 600 – – 1.63 <1	<450 450 550 – – 1.62 <1	<450 450 650 – – 2.15 <1	<450 450 650 – – 2.01 <1	<450 450 700 11500 15000 2.59 <1	<450 450 600 – – 2.75 <1	<450 450 700 – – 2.92 <1	<450 450 700 11500 16000 1.97 <1	<450 450 650 – – 1.65 <1	<450 450 700 – – 2.29 <1	<450 450 600 – – 1.26 <1	<450 450 550 11500 17500 1.66 <1	<450 450 600 – – 2.45 <1	<450 450 600 – – 1.38 <1	<450 450 450 – – 2.07 <1	<450 450 450 – – 1.30 <1	<450 450 450 – – 2.15 <1
Q	<450 450 450 – – 0.93	<450 450 450 11500 12500 1.85 <1	<450 450 550 – – 1.50 <1	<450 450 600 – – 2.13 <1	<450 450 550 11500 15000 1.36 <1	<450 450 625 – – 1.09 <1	<450 450 750 11500 18000 2.30 <1	<450 450 550 – – 2.74 <1	<450 450 600 – – 2.67 <1	<450 450 600 – – 2.23 <1	<450 450 700 – – 1.94 <1	<450 450 700 – – 2.42 <1	<450 450 700 – – 1.61 <1	<450 450 500 11500 15000 1.09 <1	<450 450 500 – – 1.47 <1	<450 450 500 – – 2.10 <1	<450 450 550 – – 2.30 <1	<450 450 550 11500 15000 1.80 <1	<450 450 450 – – 2.02 <1	<450 450 450 11500 20000 1.60 <1	<450 450 450 – – 1.82 <1
P	<450 450 250 – – 1.74 <1	<450 450 250 – – 1.92 <1	<450 450 700 11500 15000 2.03 <1	<450 450 600 – – 2.66 <1	<450 450 600 – – 1.55 <1	<450 450 600 11500 15000 1.60 <1	<450 450 700 – – 1.57 <1	<450 450 550 – – 1.79 <1	<450 450 600 11500 15000 2.15 <1	<450 450 550 – – 1.53 <1	<450 450 450 11500 16000 2.79 <1	<450 450 650 – – 2.08 <1	<450 450 600 – – 1.55 <1	<450 450 500 – – 1.84 <1	<450 450 500 – – 1.54 <1	<450 450 550 11500 17500 1.51 <1	<450 450 500 – – 2.28 <1	<450 450 500 – – 2.09 <1	<450 450 500 – – 1.81 <1	<450 450 500 – – 2.31 <1	<450 450 500 – – 3.11 <1
O	<450 450 300 – – 1.28 <1	<450 450 450 11500 15000 1.51 <1	<450 450 450 – – 1.15 <1	<450 450 600 – – 1.94 <1	<450 450 600 – – 2.45 <1	<450 450 550 – – 2.14 <1	<450 450 600 11500 15000 1.49 <1	<450 450 500 – – 0.98	<450 450 550 – – 1.89 <1	<450 450 500 – – 2.24 <1	<450 450 600 – – 1.88 <1	<450 450 550 – – 2.56 <1	<450 450 550 – – 1.89 <1	<450 450 550 11500 15000 1.87 <1	<450 450 600 – – 2.47 <1	<450 450 550 – – 2.34 <1	<450 450 600 11500 20000 1.61 <1	<450 450 600 – – 2.98 <1	<450 450 500 11500 11500 1.72 <1	<450 450 500 – – 1.70 <1	<450 450 450 – – 1.26 <1
N	<450 450 500 – – 2.16 <1	<450 450 500 – – 1.89 <1	<450 450 600 – – 1.71 <1	<450 450 600 11500 15000 1.51 <1	<450 450 550 – – 1.68 <1	<450 450 450 – – 2.29 <1	<450 450 400 – – 1.91 <1	<450 450 450 – – 1.35 <1	<450 450 450 – – 1.71 <1	<450 450 500 11500 15000 1.50 <1	<450 450 450 – – 1.79 <1	<450 450 250 11500 12000 1.92 <1	<450 450 200 – – 1.90 <1	<450 450 200 – – 1.42 <1	<450 450 500 – – 1.87 <1	<450 450 550 11500 20000 1.31 <1	<450 450 500 – – 1.66 <1	<450 450 500 – – 1.86 <1	<450 450 500 – – 2.08 <1	<450 450 500 – – 1.25 <1	<450 450 450 11500 11500 2.14 <1
M	<450 450 600 11500 15000 2.08 <1	<450 450 600 – – 2.23 <1	<450 450 600 – – 2.19 <1	<450 450 600 – – 1.48 <1	<450 450 500 – – 2.52 <1	<450 450 575 11500 15000 2.28 <1	<450 450 550 – – 1.85 <1	<450 450 550 11500 15000 1.68 <1	<450 450 550 – – 1.90 <1	<450 450 600 – – 2.09 <1	<450 450 450 – – 2.24 <1	<450 450 350 – – 1.54 <1	<450 450 250 – – 1.67 <1	<450 450 350 11500 11500 2.01 <1	<450 450 450 – – 1.48 <1	<450 450 600 – – 1.63 <1	<450 450 600 – – 1.73 <1	<450 450 600 11500 15000 2.31 <1	<450 450 600 – – 1.41 <1	<450 450 600 – – 2.16 <1	<450 450 500 – – 1.96 <1
L	<450 450 600 – – 2.08 <1	<450 450 600 – – 1.91 <1	<450 450 550 11500 20000 1.97 <1	<450 450 600 – – 1.82 <1	<450 450 550 11500 14000 1.82 <1	<450 450 600 – – 2.64 <1	<450 450 600 – – 2.41 <1	<450 450 600 – – 2.26 <1	<450 450 550 – – 1.72 <1	<450 450 750 11500 15000 1.93 <1	<450 450 450 – – 2.44 <1	<450 450 400 11500 10000 0.67	<450 450 450 – – 2.05 <1	<450 450 450 – – 1.82 <1	<450 450 600 – – 2.28 <1	<450 450 600 – – 2.77 <1	<450 450 600 11500 15000 2.64 <1	<450 450 600 – – 1.58 <1	<450 450 500 11500 20000 2.68 <1	<450 450 500 – – 2.07 <1	<450 450 450 – – 2.22 <1
K	<450 450 600 – – 2.94 <1	<450 450 600 11500 17500 2.66 <1	<450 450 550 – – 1.68 <1	<450 450 600 – – 1.73 <1	<450 450 550 – – 1.89 <1	<450 450 550 – – 2.09 <1	<450 450 600 11500 15000 2.04 <1	<450 450 600 – – 1.73 <1	<450 450 550 11500 15000 2.13 <1	<450 450 600 – – 2.04 <1	<450 450 450 – – 2.30 <1	<450 450 400 – – 1.24 <1	<450 450 450 11500 10000 1.44 <1	<450 450 450 – – 2.08 <1	<450 450 600 11500 15000 1.79 <1	<450 450 600 – – 1.46 <1	<450 450 600 – – 1.90 <1	<450 450 600 – – 1.72 <1	<450 450 500 – – 1.70 <1	<450 450 500 – – 1.47 <1	<450 450 500 11500 15000 1.89 <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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

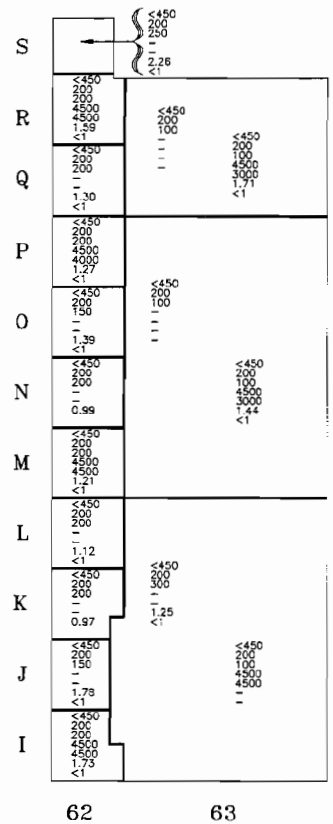


Sample Data

<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]

3. Dry Dock 3

e. Localized Grid Maps (FLOOR)

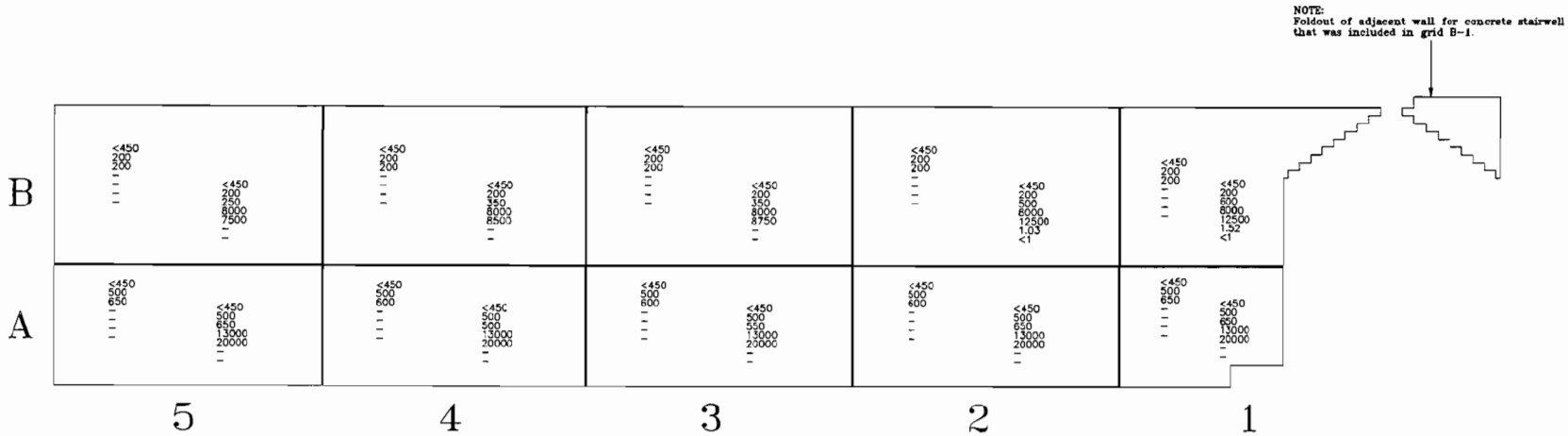


Sample Data

<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]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)



W4

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]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)

	10	9	8	7	6
B	<450 200 200 – – – – <450 200 250 8000 5000 – –	<450 200 200 – – – – <450 200 250 8000 6000 – –	<450 200 200 – – – – <450 200 300 8000 6000 – –	<450 200 200 – – – – <450 200 250 8000 6000 – –	<450 200 200 – – – – <450 200 250 9000 7500 – –
A	<450 300 400 – – – – <450 300 400 10000 10000 – –	<450 300 400 – – – – <450 300 400 10000 10000 – –	<450 300 400 – – – – <450 300 400 10000 10000 – –	<450 500 500 – – – – <450 500 500 13000 15000 – –	<450 500 600 – – – – <450 500 550 13000 17500 – –

W4

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]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)

	15	14	13	12	11
B	<450 200 200 4000 6000 - - <450 200 300 8000 6000 - -	<450 200 200 4000 6000 - - <450 200 300 8000 6000 - -	<450 200 200 4000 6000 - - <450 200 250 8000 6000 - -	<450 200 200 4000 6000 - - <450 200 250 8000 6000 - -	<450 200 200 4000 6000 - - <450 200 250 8000 6000 - -
A	<450 300 300 4000 4500 - - <450 300 400 10000 15000 - -	<450 300 400 4000 4500 - - <450 300 400 10000 10000 - -	<450 300 300 4000 4500 - - <450 300 350 10000 10000 - -	<450 300 350 4000 4500 - - <450 300 400 10000 10000 - -	<450 300 450 4000 4500 - - <450 300 400 10000 10000 - -

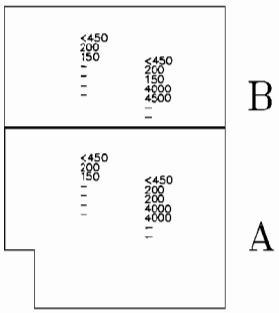
W4

Sample Data

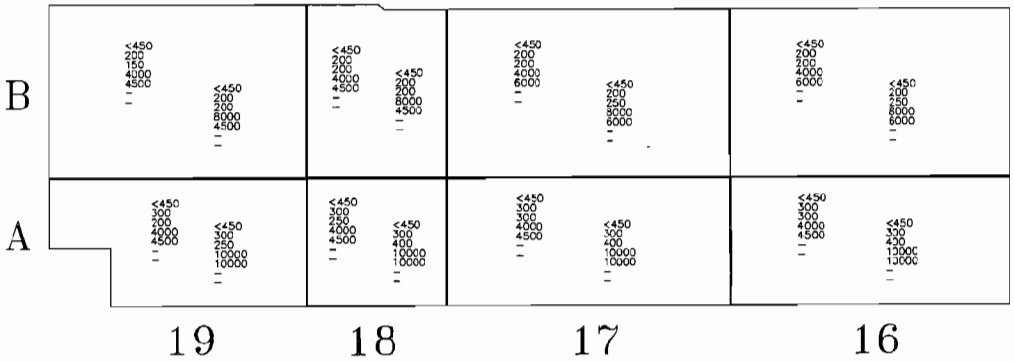
< 450 – IM-247/PD Results [$\mu\mu$Ci/20cm^2]
200 – IM-253/PD (HV-1 PHA) [bkg.]
300 – IM-253/PD (HV-1 PHA) [cpm]
7000 – IM-253/PD (HV-2 GROSS) [bkg.]
7300 – IM-253/PD (HV-2 GROSS) [cpm]
1.82 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)



W2



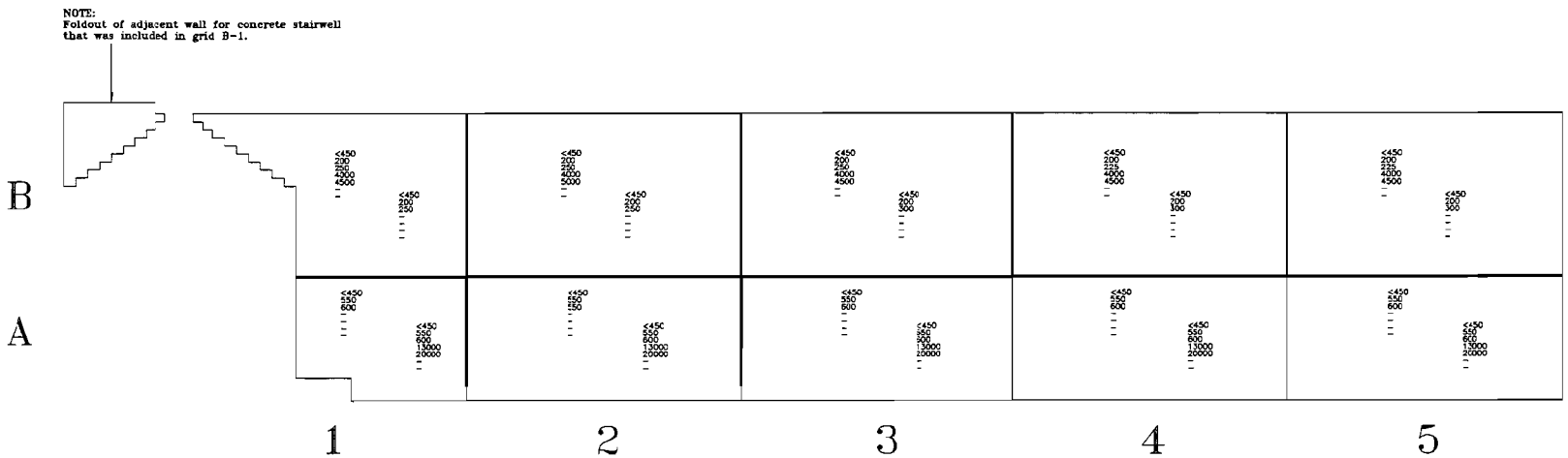
W4

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]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)

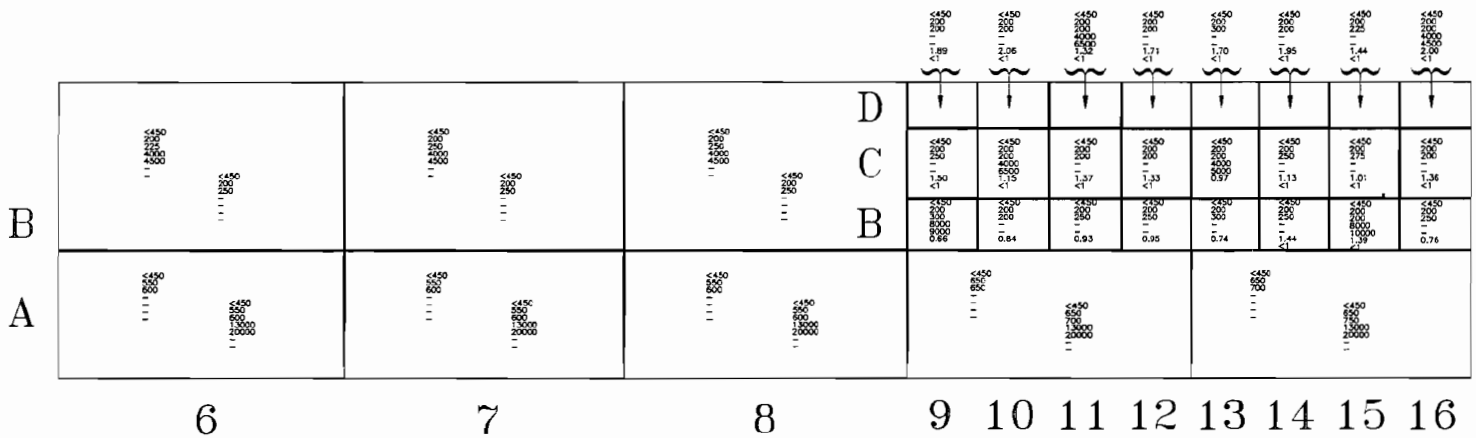


W6

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]
1.32 – MCA Gross Gamma Eq. Co-60 [pCi/g]
<1 – MCA Specific Co-60 Results [pCi/g]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)



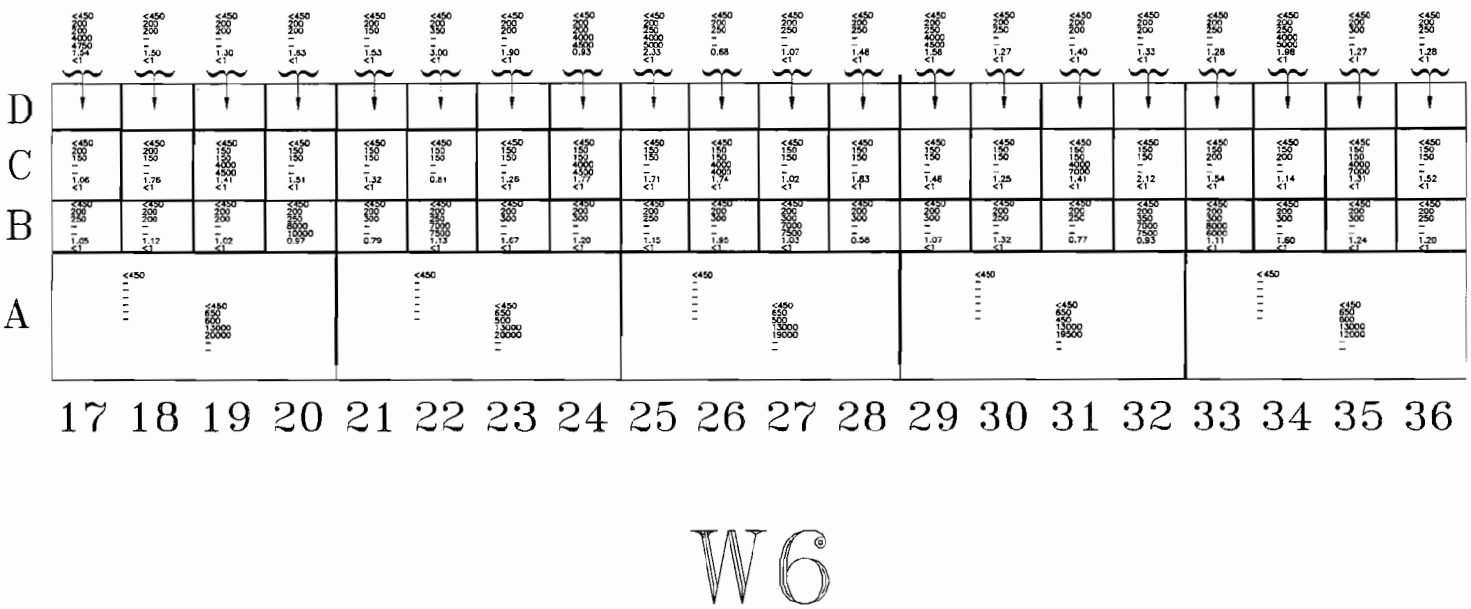
W6

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]

3. Dry Dock 3

e. Localized Grid Maps (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 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]

3. Dry Dock 3

e. Localized Grid Maps

W5

	1	2	3	4	5
B	<450 500 450 – – – <450 700 600 15000 15000 – –	<450 700 650 – – – <450 700 700 15000 20000 – –	<450 700 600 15000 20000 – <450 700 650 – – – –	<450 300 450 – – – <450 300 450 10000 15000 – –	<450 300 350 10000 15000 – <450 300 450 – – – –
A	<450 700 750 15000 25000 – <450 700 700 – – – –	<450 700 800 – – – <450 700 700 15000 20000 – –	<450 700 700 – – – <450 700 700 15000 20000 – –	<450 300 700 – – 3.12 <1 <450 300 400 10000 17500 – –	<450 300 400 10000 17500 – <450 300 700 – – 2.35 <1

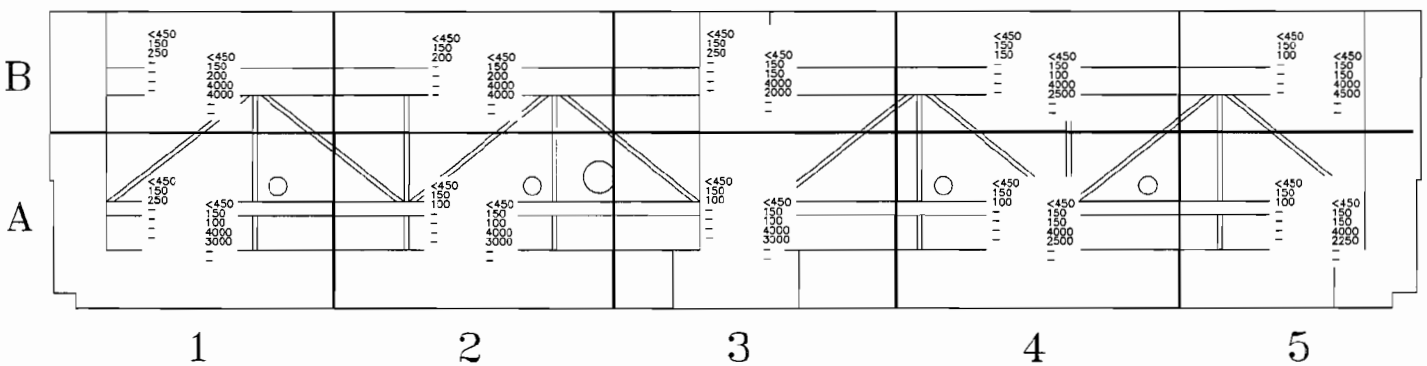
Sample Data

<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]

3. Dry Dock 3

e. Localized Grid Maps (WALLS)

W 1

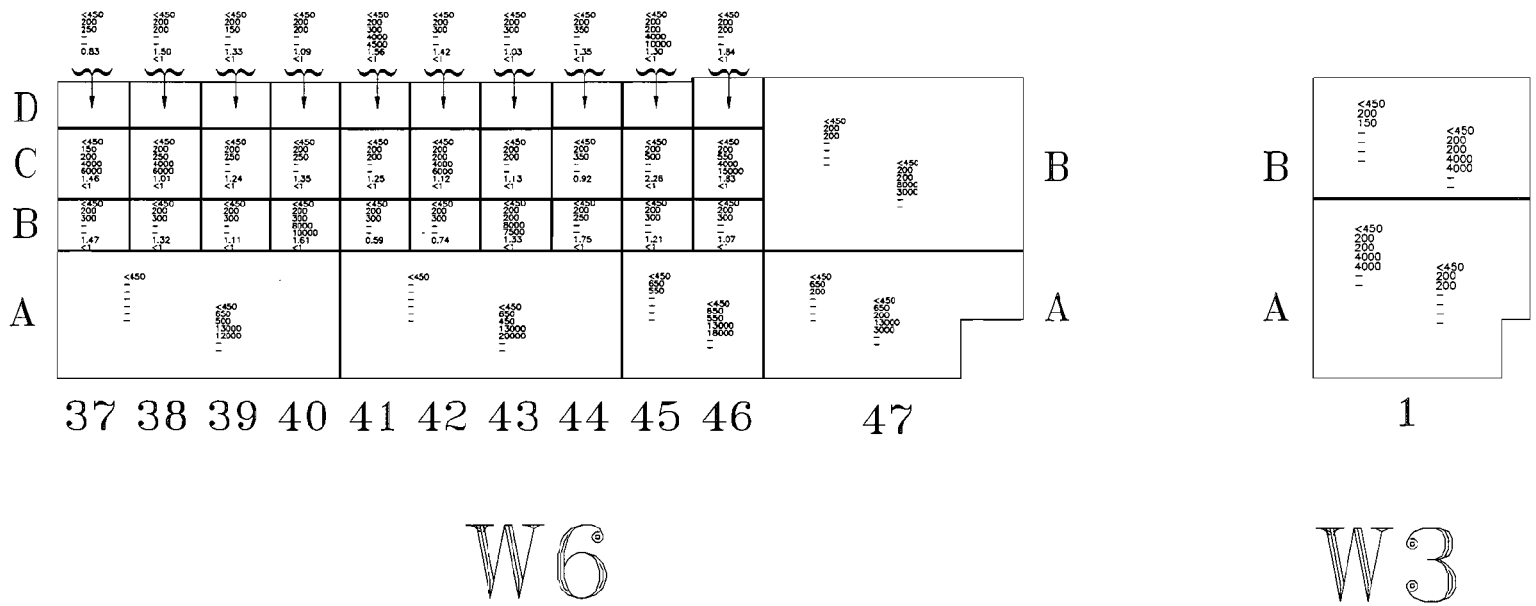


Sample Data

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

3. Dry Dock 3

e. Localized Grid Maps (WALLS)



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]

3. Dry Dock 3

f. Prior Photograph

Viewing Floor and Wall 4, facing toward Wall 1.

3. Dry Dock 3

f. Prior Photograph

Viewing Floor, facing toward Wall 5

3. Drydock 3

f. Prior Photograph

Adjacent area on north side of dry dock.

3. Dry Dock 3

f. Prior Photograph

Adjacent area south side of dry dock.

3. Dry Dock 3

g. After Photograph

Viewing Wall 4.

3. Dry Dock 3

g. After Photograph

Viewing Wall 1.