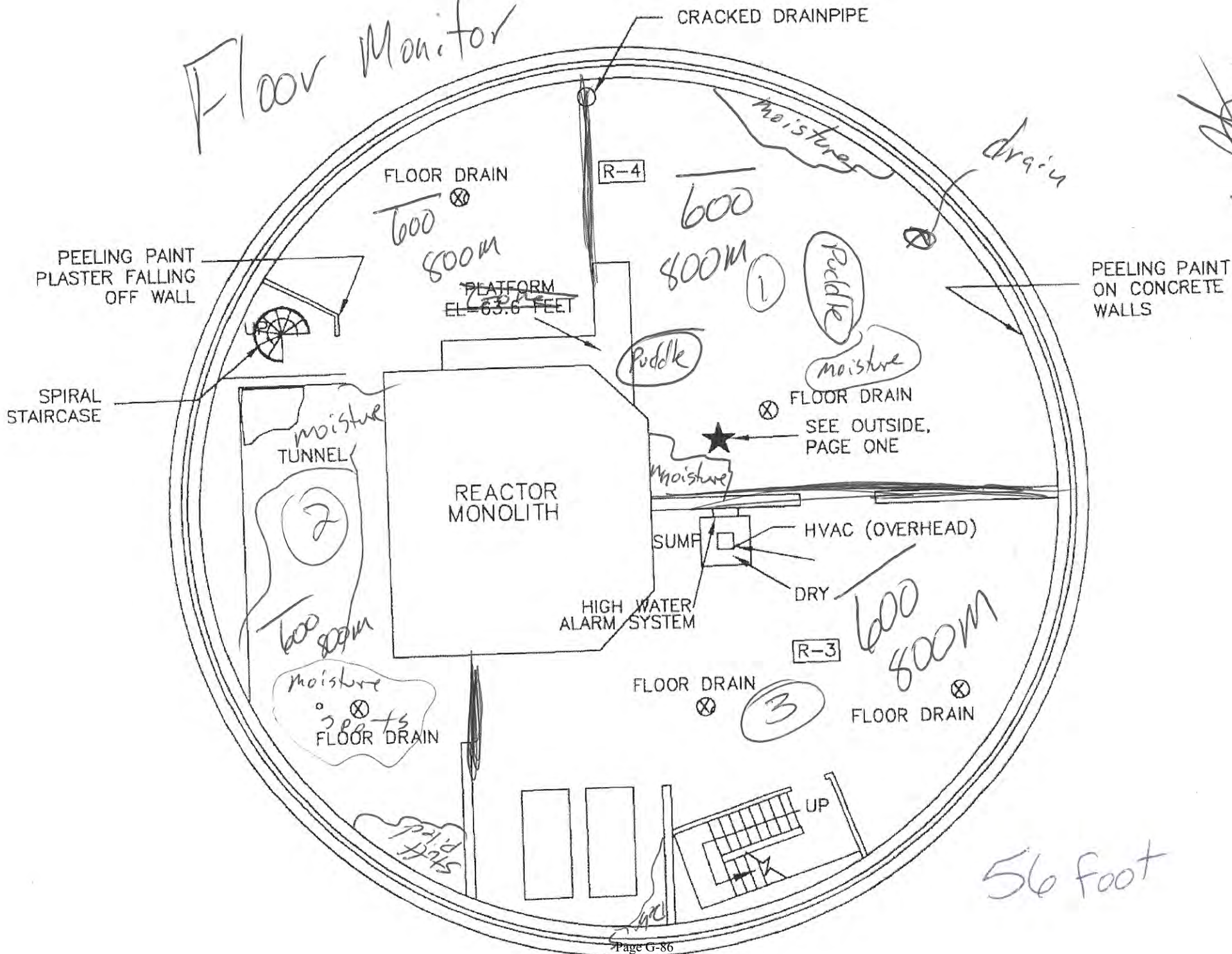


Dade Moeller
Radiological Survey Report

[illegible]

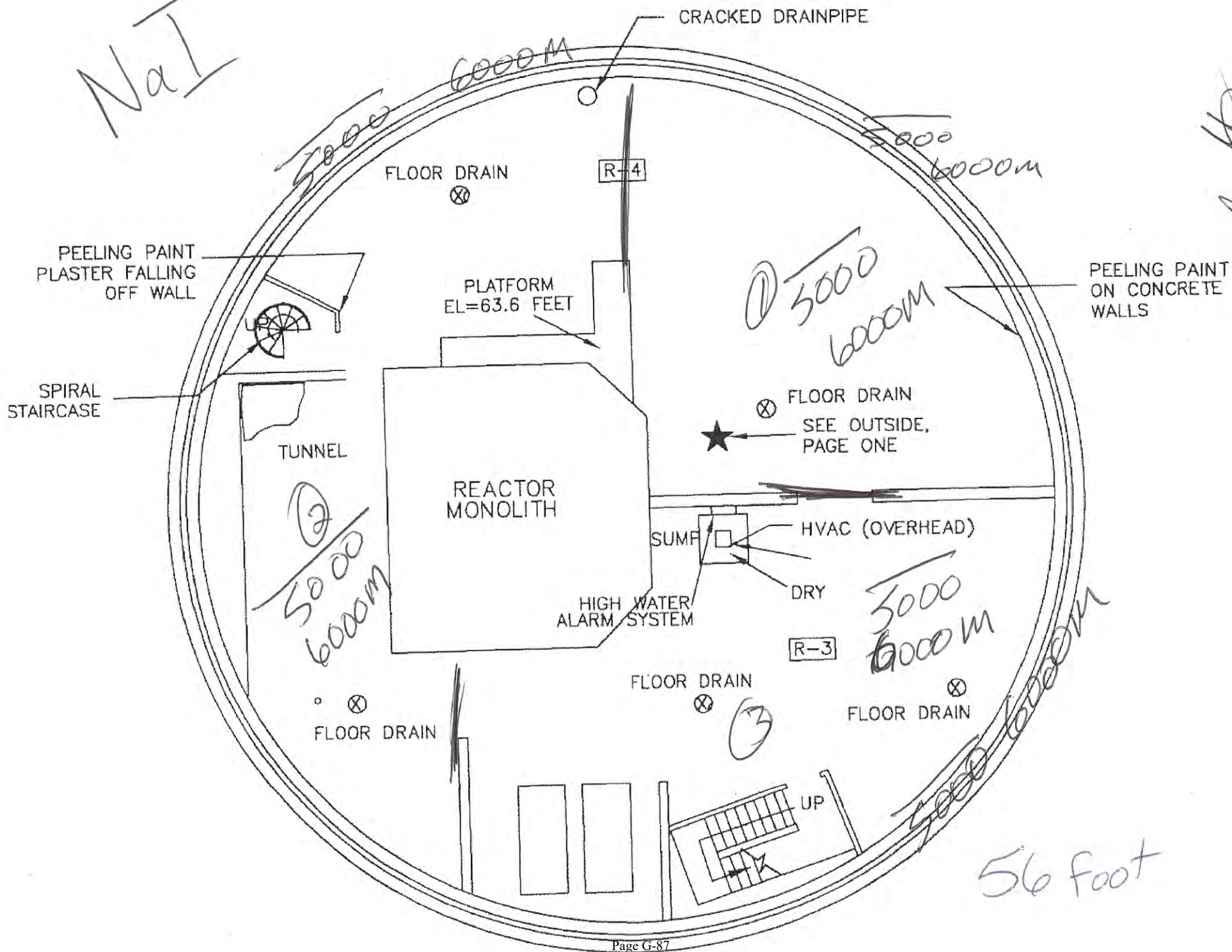
Floor Monitor



10/13/2020
J. G. G.

NaI

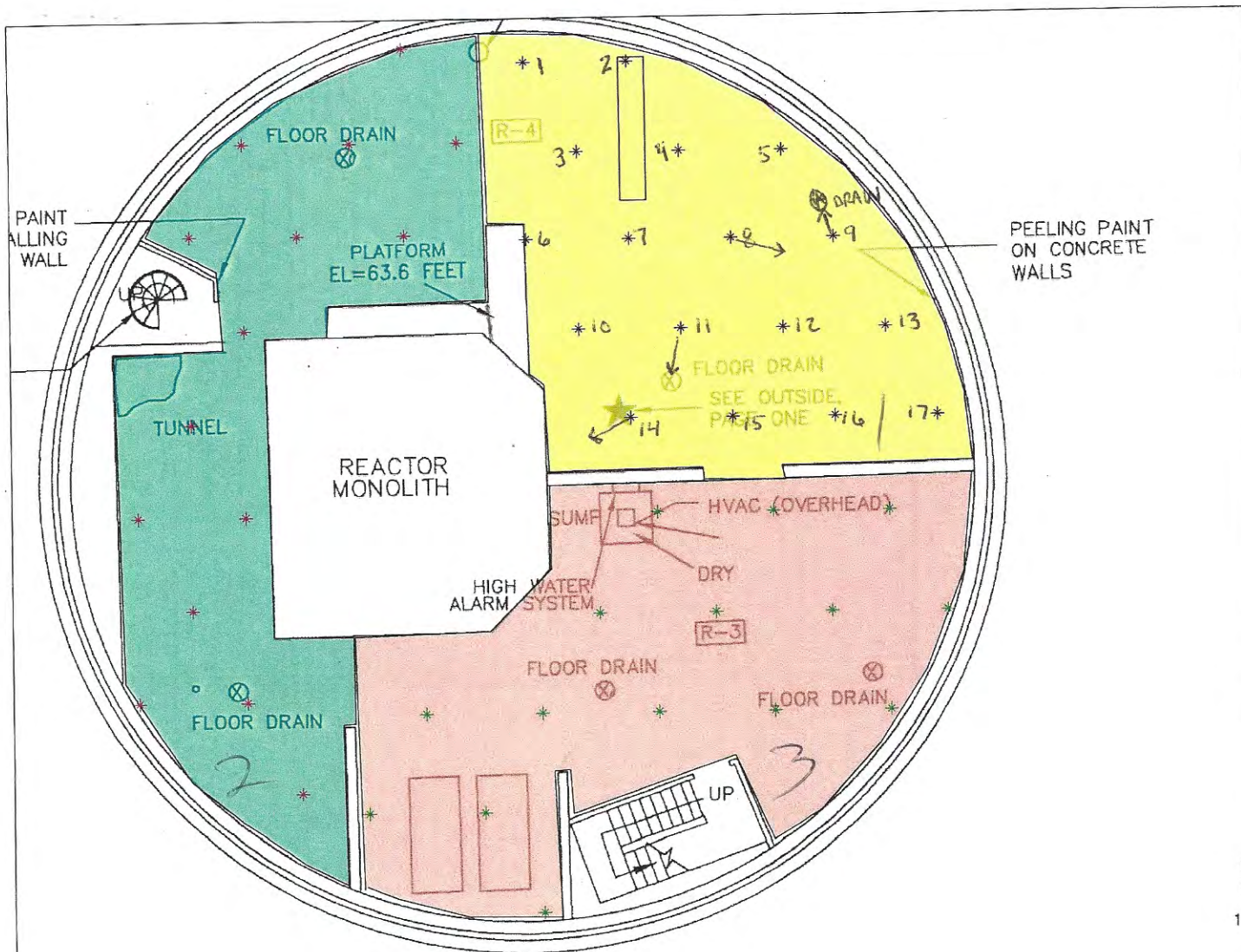
W. H. Johnson



Dade Moeller
Radiological Survey Report

Laboratory Description:	56F-1-1			Date:	6/9/2020		
Purpose of Survey:	CSS			Performed By:			
				Print:	JEFF GAGNE		
				Sign:			
Sketch of Area - SEE ATTACHED PAGE FOR SKETCH	Direct Results cpm/100cm ²						
	Direct #	Beta	Alpha				
	1	151	0				
	2	115	4				
	3	159	3				
	4	155	3				
	5	170	6				
	6	125	2				
	7	151	2				
	8	134	3				
	9	85	5				
	10	183	6				
	11	103	2				
	12	138	5				
	13	157	6				
	14	148	3				
	15	126	3				
	16	119	3				
	17	165	4				
Legend: # - Direct Measurement # - Scan Direct Measurment ⊕ - Smear Location				Source Check (pre/post)			
Instrumentation							
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units	
2224	162850	3α/135β		M-230/L-129	307α/329β	CPM	
				POST	300α/356β	CPM	
Comments, including corrective actions if any: N/A							

PG. 1/3 *ADL*



PLAN - 56 FOOT LEVEL

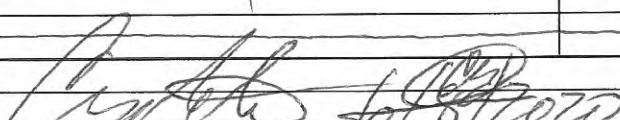
027\03\S23518\S2351800.DWG 4/17/2019 12:28:22 PM atencioj

PG. 2/3 JPR



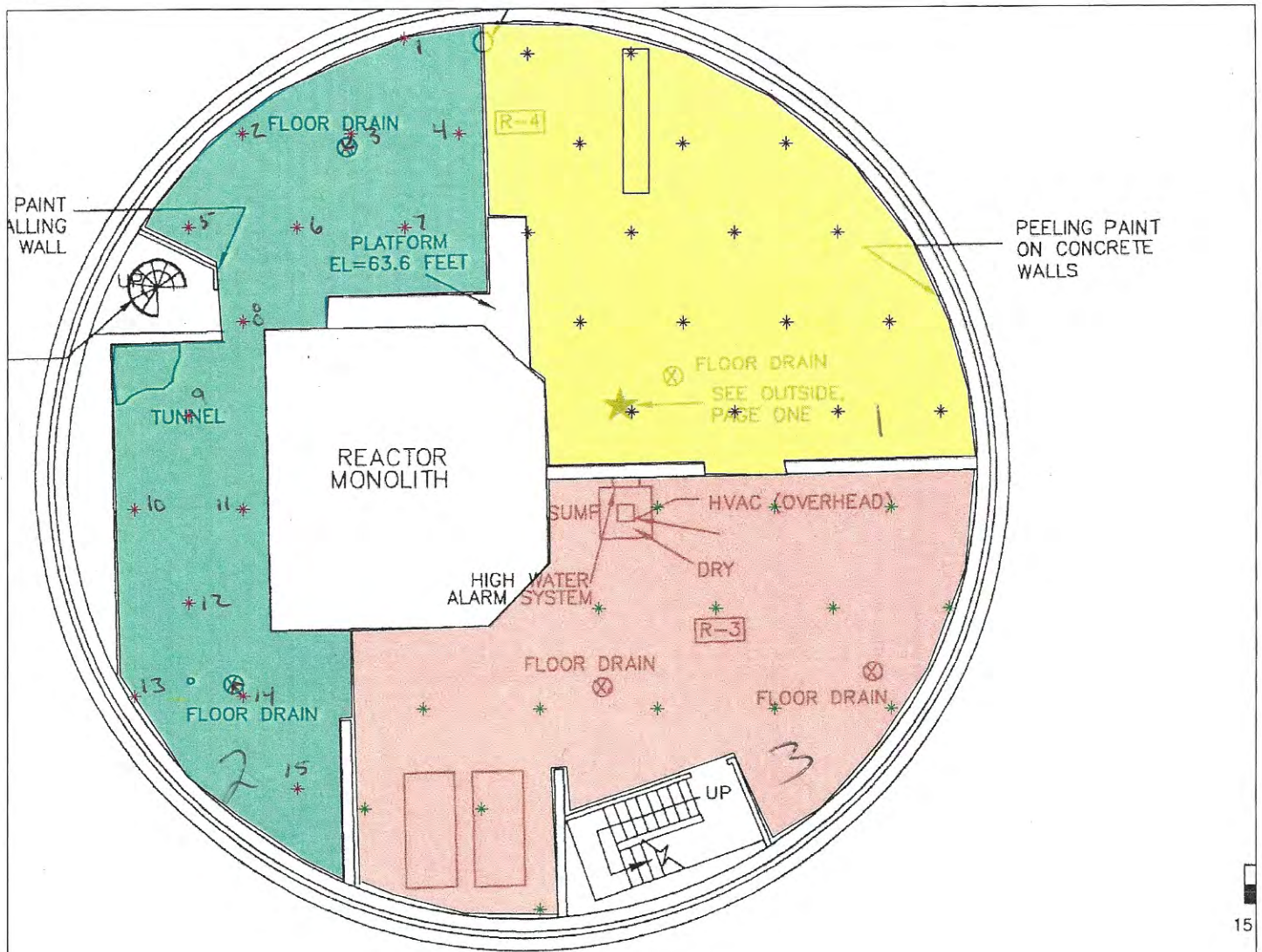
Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	56F-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	57
Background	Background Count #2	0	106
1		0	64
2		0	51
3		0	60
4		0	45
5		1	57
6		1	50
7		0	56
8		1	64
9		0	65
10		0	49
11		0	54
12		0	49
13		0	38
14		0	51
15		0	53
16		1	52
17		0	50
Additional Comment: Analyzed by/date: (name/date) 			

Dade Moeller
Radiological Survey Report

[illegible]



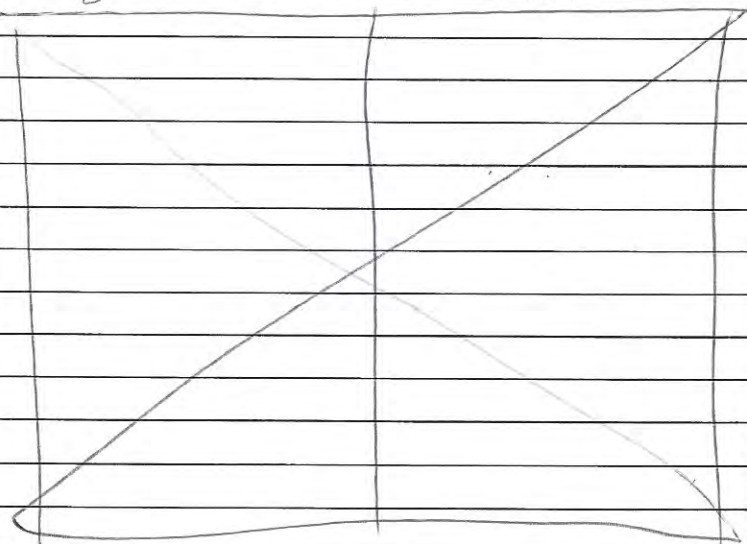
PLAN — 56 FOOT LEVEL

027\03\S23518\S2351800.DWG 4/17/2019 12:28:22 PM atencioj

P6. 2/3 JPL

Bench Counter Worksheet

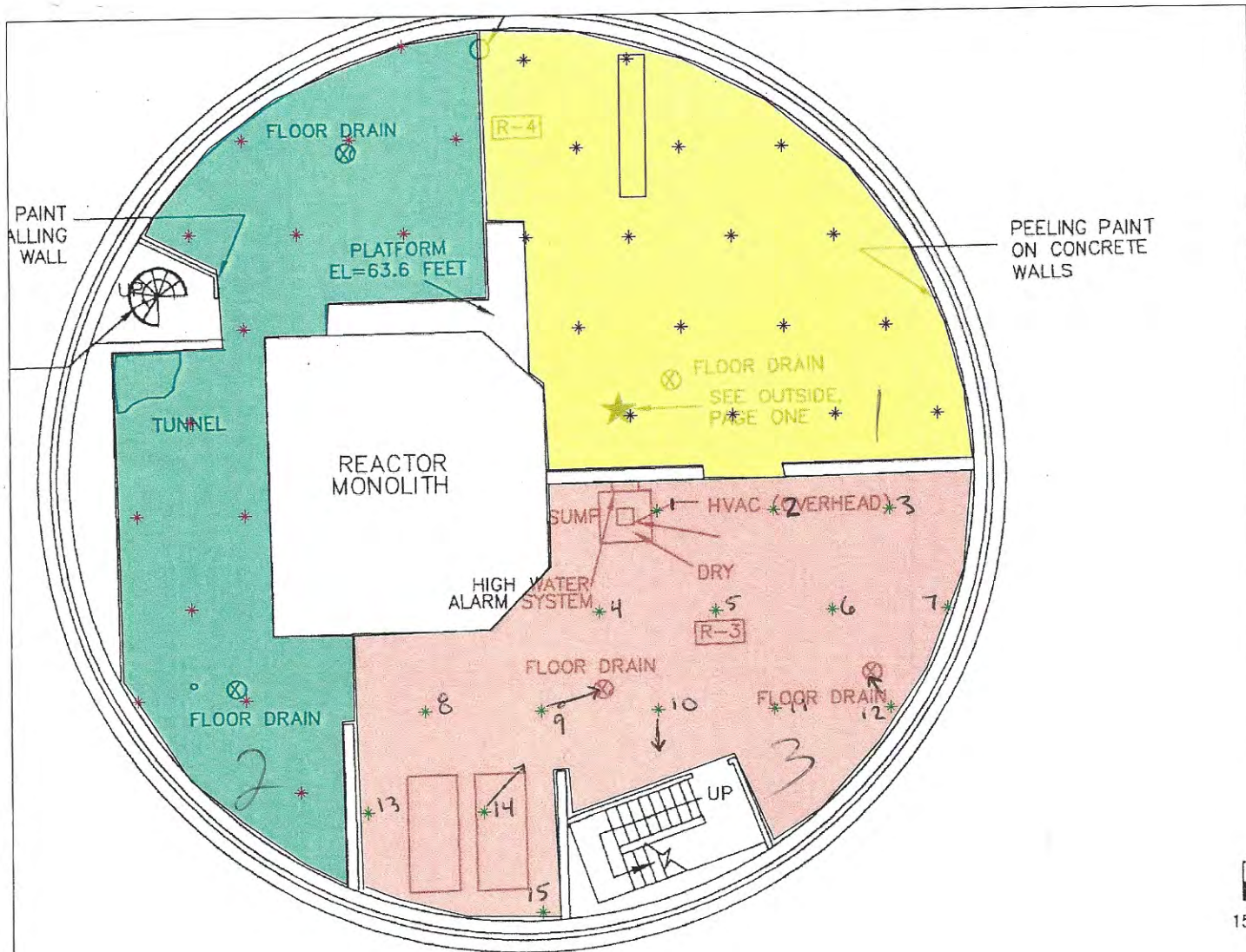
Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	56F-1-2 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	53
Background	Background Count #2	1	45
1	See attached map 	1	47
2		1	78
3		0	51
4		2	68
5		0	53
6		1	52
7		3	35
8		1	62
9		1	52
10		1	49
11		0	55
12		1	56
13		0	53
14		0	46
15		1	54
Additional Comment: Analyzed by/date: (name/date)			

Dade Moeller
Radiological Survey Report

Laboratory Description: <u>56F-1-3</u>				Date: <u>6/9/2020</u>					
Purpose of Survey: <u>CSS</u>				Performed By:					
				Print: <u>JEFF GAGNE</u>					
				Sign: <u>[Signature]</u>					
Sketch of Area <u>-SEE ATTACHED PAGE FOR SKETCH</u>				Direct Results cpm/100cm ²					
				Direct #	Beta	Alpha			
				1	137	1			
				2	152	3			
				3	135	4			
				4	132	0			
				5	160	1			
				6	143	3			
				7	154	2			
				8	166	3			
				9	150	5			
				10	138	3			
				11	137	2			
				12	98	3			
				13	139	2			
				14	163	1			
				15	171	5			
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location									
Instrumentation				Source Check (pre/post)					
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units			
2224	162850	3 α/135 B		Th-230/I-129	307 α/329 B	CPM			
				POST	300 α/356 B	CPM			
Comments, including corrective actions if any: <u>N/A</u>									

PG. 1/3 JPL



PLAN - 56 FOOT LEVEL

027\03\S23518\S2351800.DWG 4/17/2019 12:28:22 PM atencioj

PG. 2/3 JPL

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	56F-1-3 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

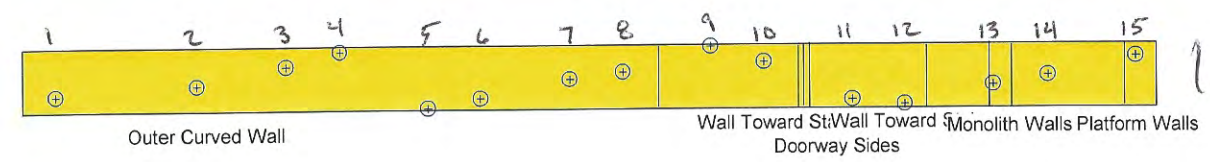
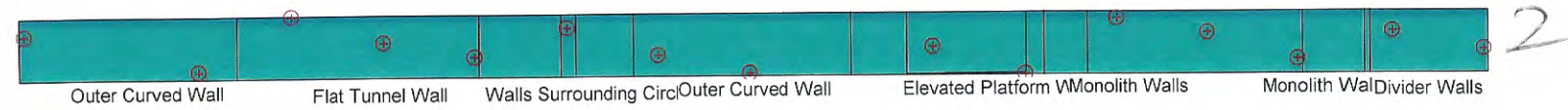
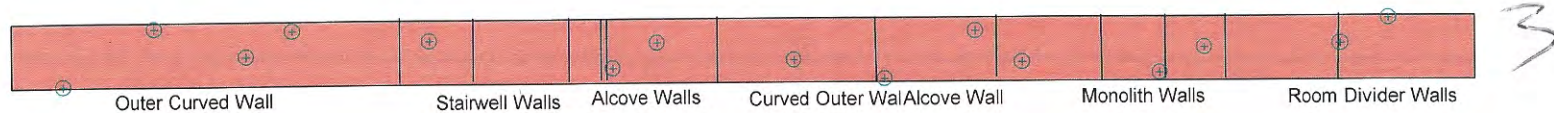
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	49
Background	Background Count #2	2	38
1	See attached map	1	37
2		0	41
3		0	49
4		0	44
5		0	45
6		0	44
7		0	42
8		0	41
9		0	41
10		1	45
11		0	41
12		2	42
13		1	39
14		1	39
15		1	54
Additional Comment:		Analyzed by/date: (name/date)	
		C. J. S. 6/9/2020	

Dade Moeller
Radiological Survey Report

Laboratory Description:	56W-1-1	Date:	6/9/2020				
Purpose of Survey:	CSS	Performed By:	JEFF GAGNE				
		Print:	JEFF GAGNE				
		Sign:	[Signature]				
Sketch of Area	- SEE ATTACHED PAGES FOR SKETCH - SURVEYED 100% OF ACCESSIBLE WALL USING 2224.	Direct Results cpm/100cm ²					
		Direct #	Beta	Alpha			
		1	121	9			
		2	127	7			
		3	140	3			
		4	123	4			
		5	139	3			
		6	125	6			
		7	130	4			
		8	117	3			
		9	137	8			
		10	124	8			
		11	146	7			
		12	138	4			
		13	115	4			
		14	110	9			
		15	124	4			
		[Diagonal Line]					
Legend: # - Direct Measurement # - Scan Direct Measurment ⊕ - Smear Location							
Instrumentation				Source Check (pre/post)			
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units	
2224	162850	3α / 135B		Tl-230/I-129	307R / 329B	CPM	
				POST	300R / 356B	CPM	
Comments, including corrective actions if any: N/A							

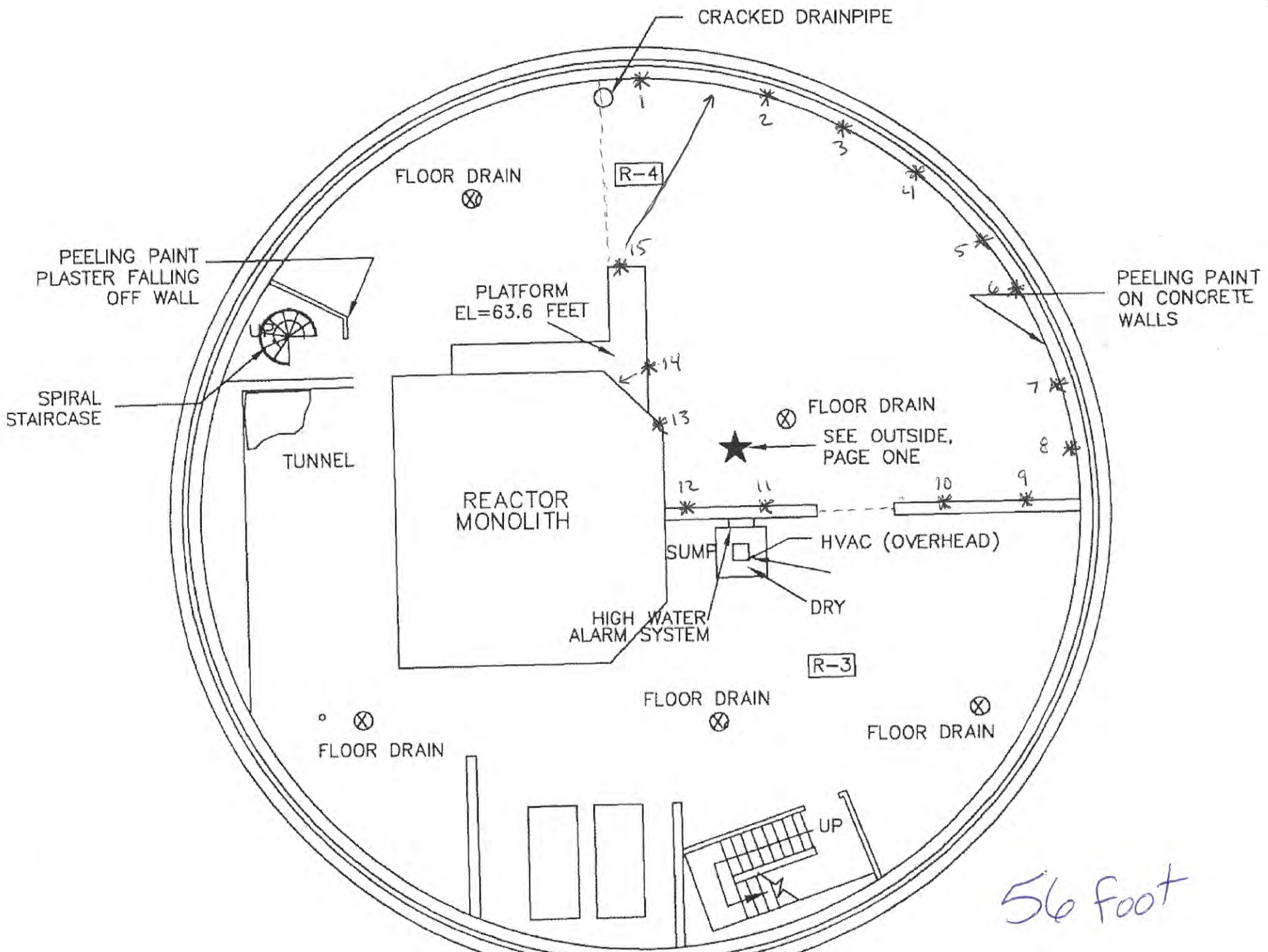
P6, 1/4 APR

pg. 2/4 JPR



56 foot R/W walls

Pb. 314 JPL



56 foot

Bench Counter Worksheet

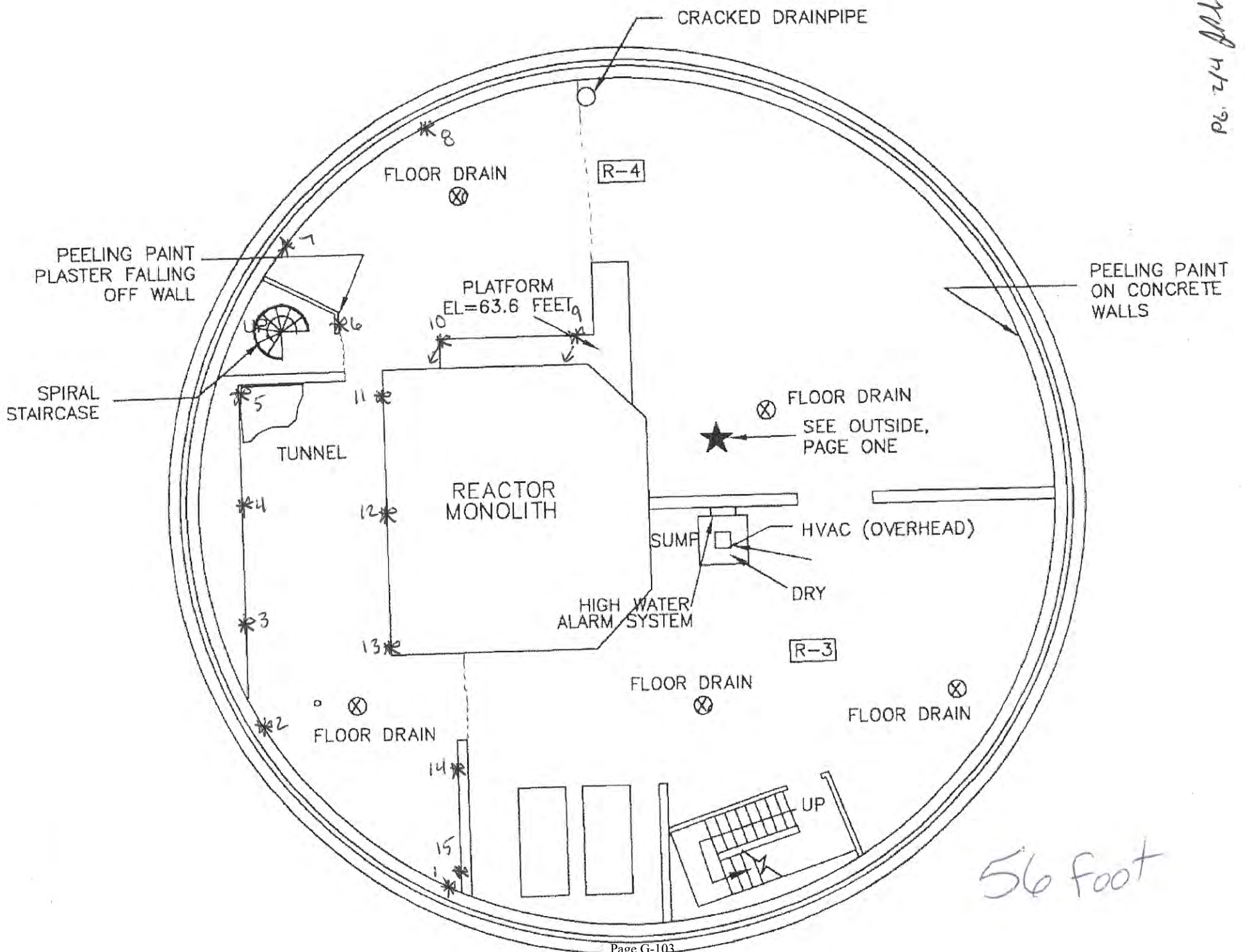
56W-1-1

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	56W-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

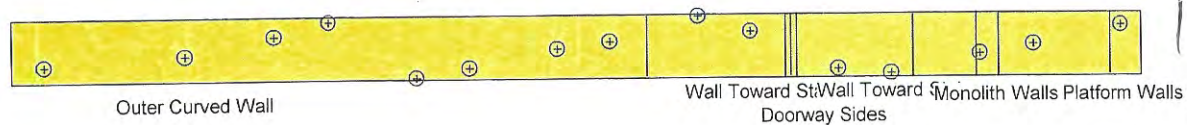
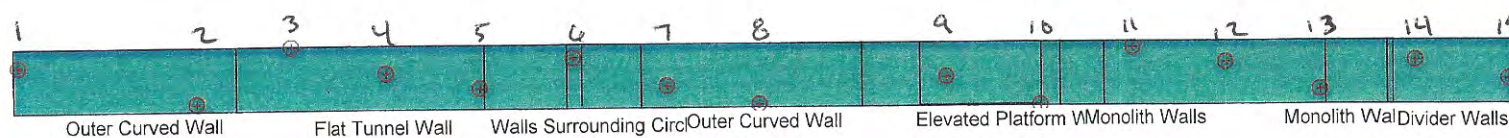
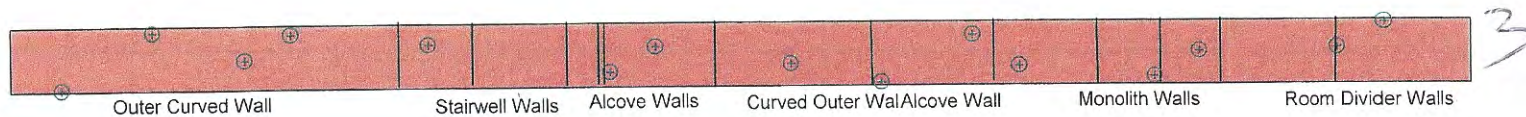
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	2	38
Background	Background Count #2	1	43
1	See attached map	0	45
2		0	36
3		1	38
4		1	44
5		0	48
6		1	46
7		0	42
8		0	53
9		0	39
10		0	40
11		0	39
12		0	35
13		0	53
14		0	49
15		0	41
Additional Comment:			
Analyzed by/date: (name/date)		C. H. H. 6/9/2020	

Laboratory Description: <u>56W-1-2</u>				Date: <u>6/9/2020</u>		
Purpose of Survey: <u>CSS</u>				Performed By:		
				Print: <u>JEFF GAGNE</u>		
				Sign: <u>[Signature]</u>		
Sketch of Area				Direct Results cpm/100cm ²		
-SEE ATTACHED PAGES FOR SKETCH -SURVEYED 100% OF ACCESSIBLE WALLS WITH 2224.				Direct #	Beta	Alpha
				1	114	4
				2	130	3
				3	115	4
				4	132	7
				5	129	2
				6	84	7
				7	133	7
				8	111	8
				9	145	6
				10	152	9
				11	142	4
				12	120	1
				13	106	5
				14	107	7
				15	146	3
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location						
Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	3α/135β		Th-230/Σ-129	307α/329β	CPM
				POST	300α/356β	CPM
Comments, including corrective actions if any: <u>N/A</u>						

PL 214 JLB



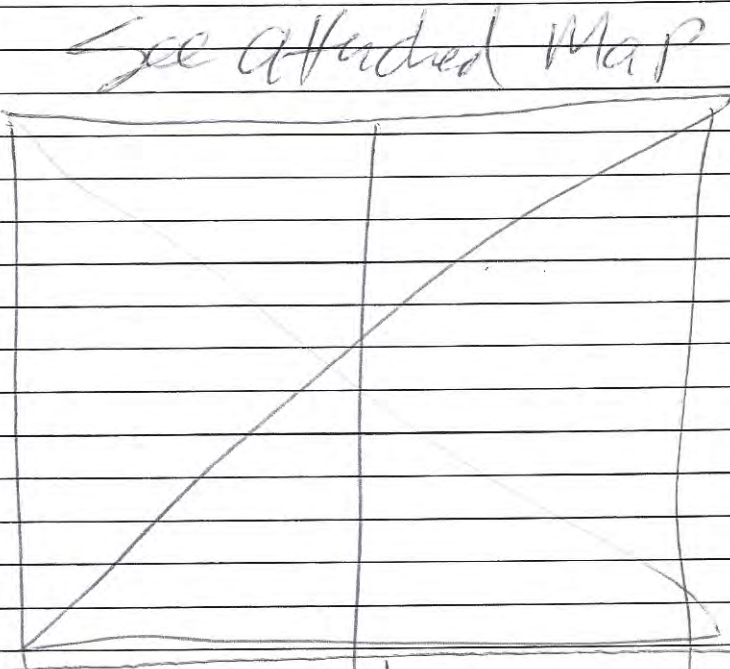
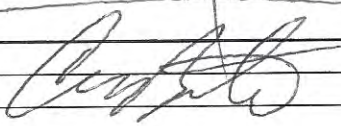
56 foot



56 foot R_x Walls

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Lucium
Client Address:	56W-1-2 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

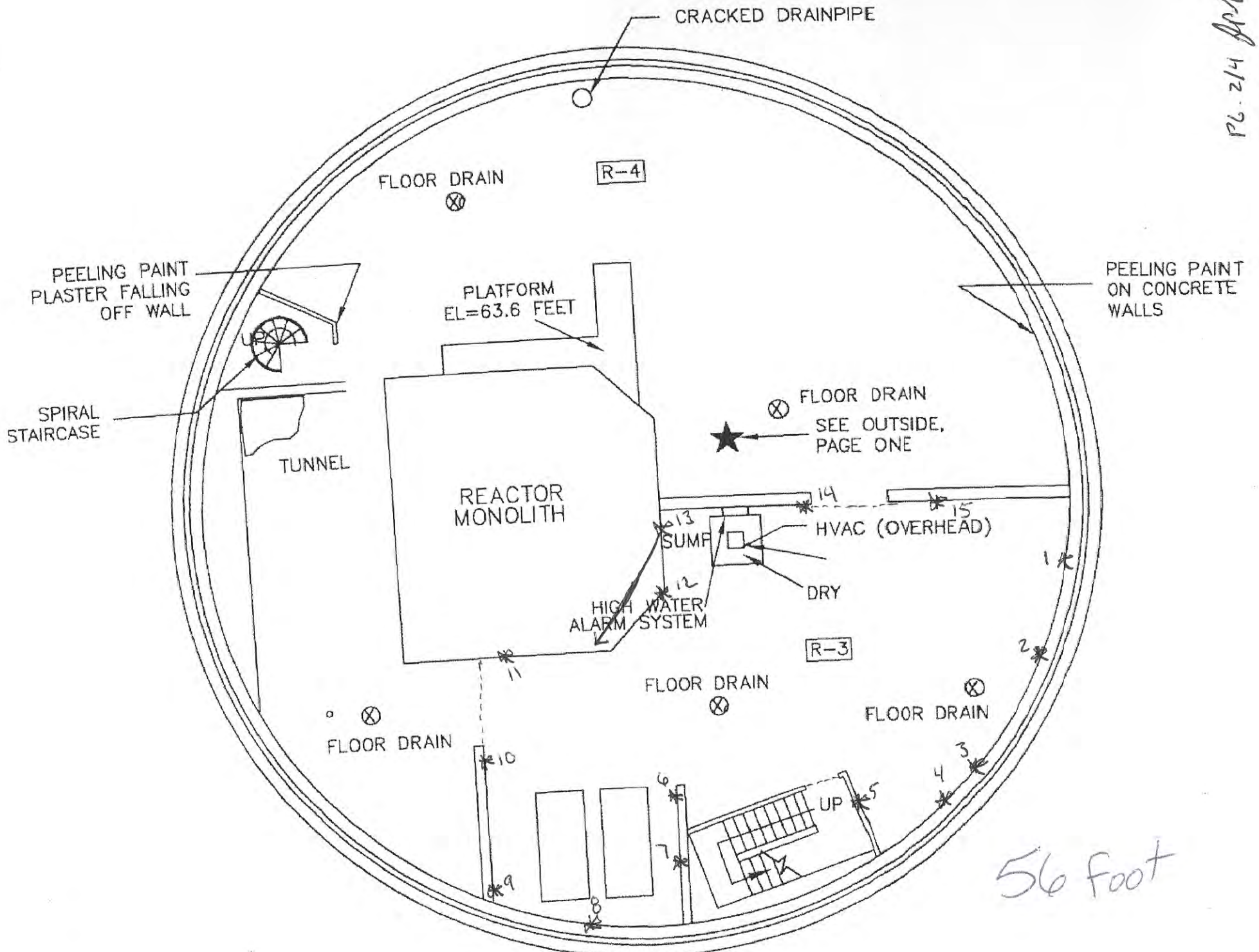
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	51
Background	Background Count #2	1	61
1		0	40
2		0	57
3		0	53
4		0	62
5		3	48
6		0	51
7		0	55
8		1	50
9		0	50
10		0	60
11		0	60
12		0	57
13		0	61
14		1	50
15		0	56
Additional Comment:			
Analyzed by/date: (name/date)		 6/8/2020 6/9/2020	

Dade Moeller Radiological Survey Report

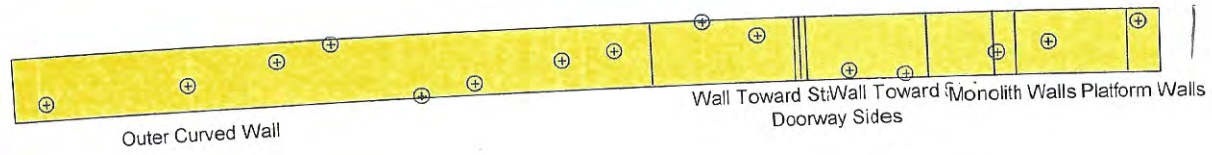
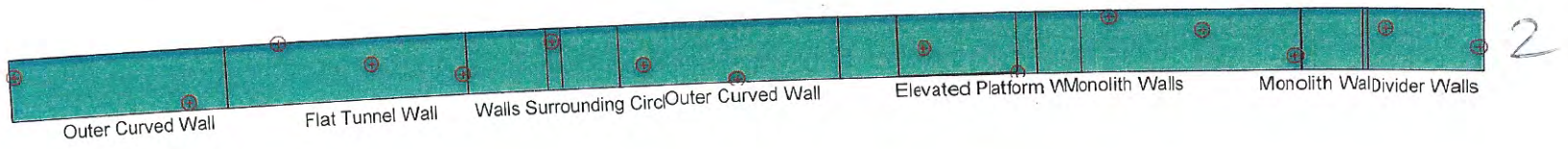
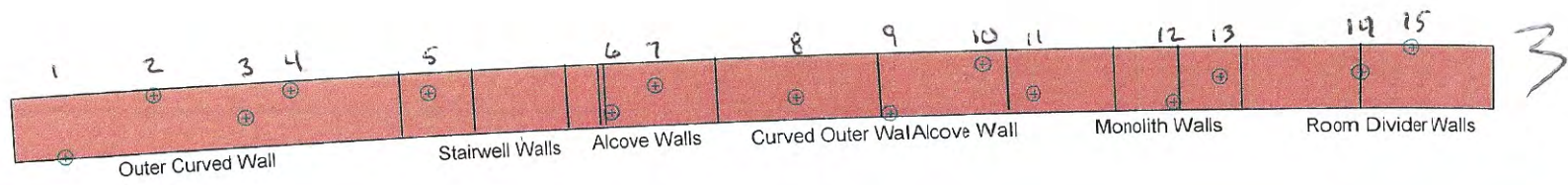
[illegible]

PG. 1/4 JAM

PL-2/4 JAL



PL 3/14 JPL



56 foot R_x Walls



Dade Moeller

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	56W-1-3 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2020
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	61
Background	Background Count #2	0	54
1	See attached maps	0	54
2		0	54
3		2	61
4		0	63
5		0	57
6		0	54
7		0	57
8		0	54
9		0	67
10		0	58
11		0	51
12		0	63
13		0	63
14		0	52
15		0	52
Additional Comment:			
Analyzed by/date: (name/date)		Cra 506 6/9/2020	

Dade Moeller Radiological Survey Report

Laboratory Description: <u>PNDE 79E-1-1</u>				Date: <u>6/3/2020</u>						
Purpose of Survey: <u>NaI + Floor Monitor 83E-1-1</u>				Performed By: <u>Clark Bentley</u>						
<u>79W-1-1</u> <u>83W-1-1</u> <u>-1-2</u>				Print: <u>Clark Bentley</u>						
Sketch of Area				Sign: <u>[Signature]</u>						
See attached maps 79W-1-1 83W-1-1 -1-2				Direct Results cpm/100cm ²						
				Direct #	Beta	Alpha				
				Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location						
				Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units				
<u>NaI</u>	<u>251999</u>	<u>3500</u>	<u>N/A</u>	<u>Cs-137</u>	<u>220000</u>	<u>cpm</u>				
<u>239-IF</u>	<u>187246</u>	<u>52/5410</u>	<u>22.92/32560</u>	<u>Th-230/1-129</u>	<u>82/412</u>	<u>cpm</u>				
Comments, including corrective actions if any: _____										

(11) IN HVAC DUCT
74-FOOT LEVEL

"OAP"
ROOM
EL=89 FI

ABOVE

4000
5000m
Grate
PLATFORM
EL=74 FEET

PLATFORM
EL=72 FEET

PLATFORM
EL=76 FEET

4000
5000m
Grate
UP

NAI

5000
6000m

AIR LOCK

FLOOR DRAIN



DN

79 Foot

Handwritten signature 6/3/2020

11-IN HVAC DUCT
74-FOOT LEVEL

"OAP"
ROOM
EL=89 FI

ABOVE

Grate
PLATFORM
EL=74 FEET

PLATFORM
EL=72 FEET

Grate
PLATFORM
EL=76 FEET

Floor
Monitor

500
750 M

AIR LOCK

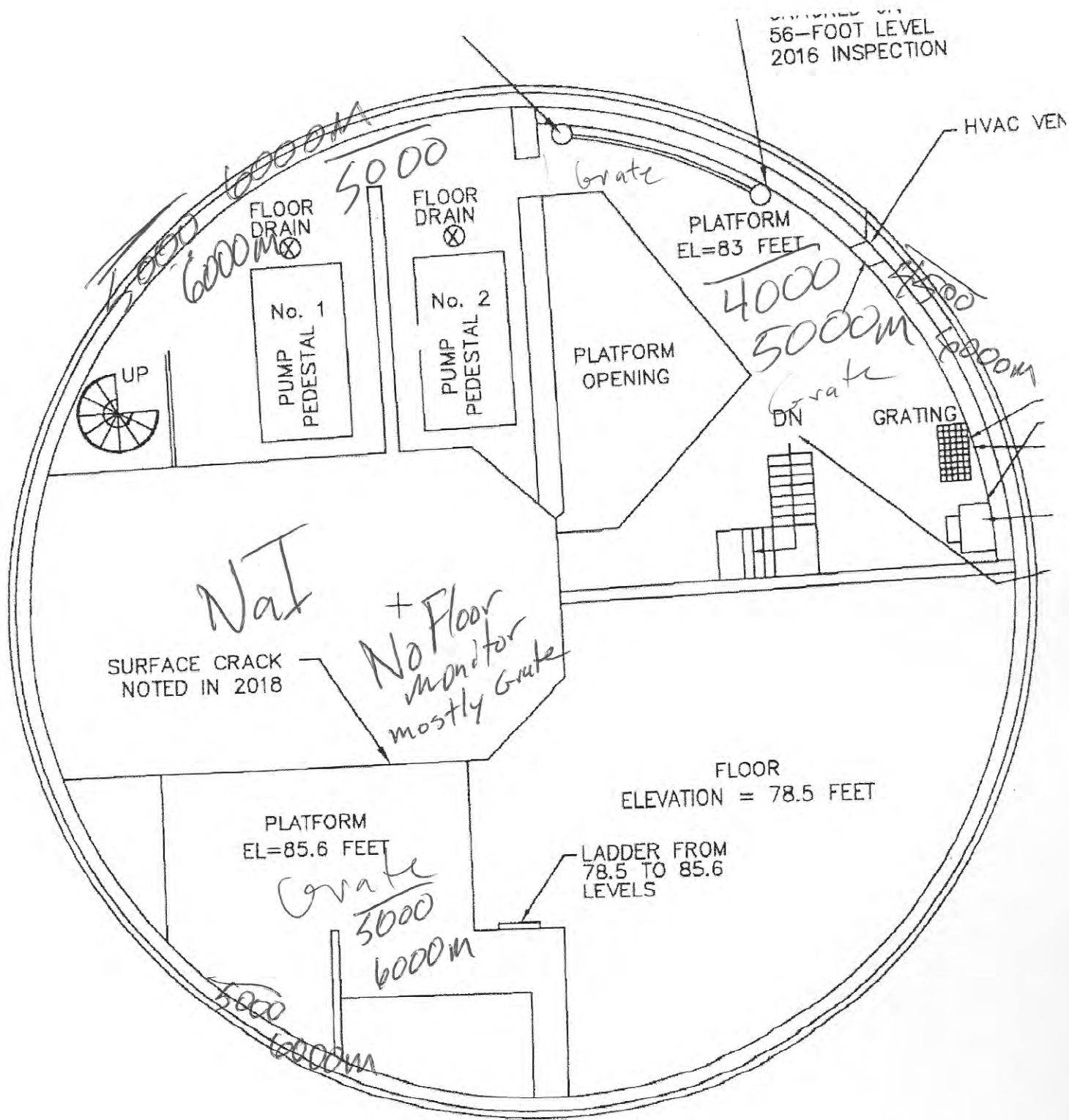
FLOOR DRAIN



DN

79 Foot

Can't 6/3/2020



PLAN — 83 FOOT LEVEL

AS/ST

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN CONTAINMENT STRUCTURE

- (24) FLOOR
- (25) FLOOR
- (26) FLOOR
- (27) FLOOR
- (11) IN HVAC DUCT
74-FOOT LEVEL

"OAP" (OPERATING AIR PRESSURE) ROOM REMODELED IN
2009. PAINTED AND SHELVES WERE ADDED.

EVIDENCE FOR OLD WATER
SEEPAGE ALONG CEILING
SEAM

"OAP" ROOM
EL=89 FEET

ABOVE ROOM B-1

PLATFORM
EL=74 FEET

PLATFORM
EL=72 FEET

PLATFORM
EL=76 FEET

B-1
FLOOR DRAIN

TANK

B-2

SUMP PUMP

HVAC

HVAC

B-3

HVAC

AIR LOCK

FLOOR DRAIN

DN

PLASTER FALLING
OFF WALL

FLOOR DRAIN

B-4

ROLL-UP
DOOR

B-5

TANK

B-6

FLOOR DRAIN

B-7

B-8

NOTE THAT THIS SECTION OF
THE WALL WAS REMOVED IN 2009

KEY:

- NO. = GENERAL AREA
- (NO) = SMEAR/DIRECT
- R-4 = ROOM NUMBER

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN AUX. BLDG.

- (51) FLOOR
- (52) FLOOR
- (53) FLOOR
- (54) ON DRAIN
- (55) FLOOR
- (56) FLOOR
- (57) FLOOR
- (58) ON DRAIN
- (59) FLOOR
- (60) FLOOR
- (61) ON DRAIN
- (62) ON SUMP COVER
- (63) PUMP
- (64) FLOOR UNDER TANK
- (65) FLOOR
- (66) FLOOR
- (67) INSIDE HVAC ON FLOOR
- (68) FLOOR
- (69) FLOOR-89' LEVEL OF

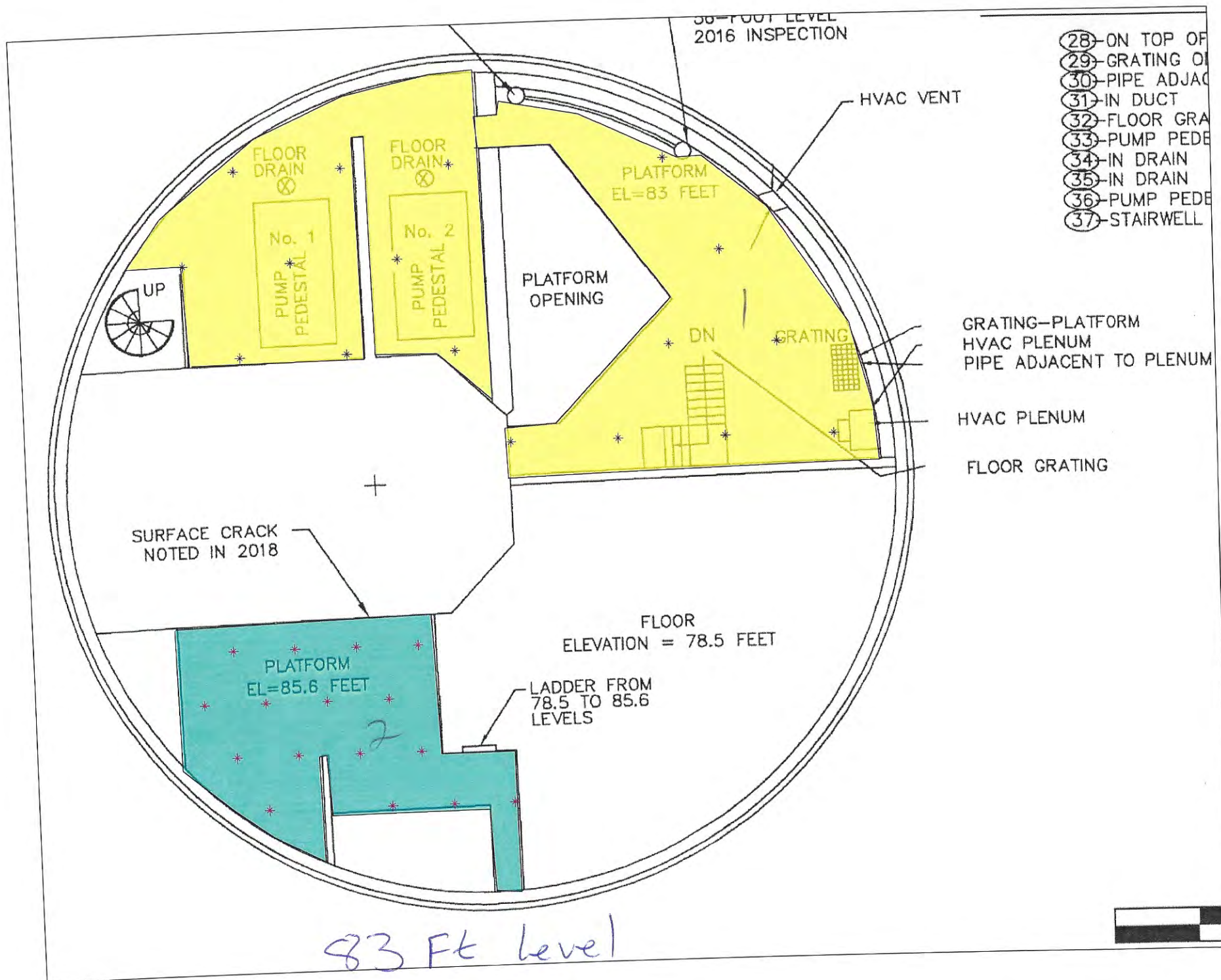
15 7.5

RA

U.S. DEPT. OF ENERGY
2019 A
PI
DATE PREP APRIL

PLAN - 79 FOOT LEVEL

M: \LTS\111\0027\03\S23518\S2351800.DWG 4/17/2019 9:08:46 AM atencioj



Dade Moeller
Radiological Survey Report

Legend: # - Direct Measurement
 # - Scan Direct Measurment
 ⊕ - Smear Location

Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	0.2/123B		Tl-230/I-129	325.2/287B	CPM
				POST	298.2/340B	CPM

Comments, including corrective actions if any: N/A

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN CONTAINMENT STRUCTURE

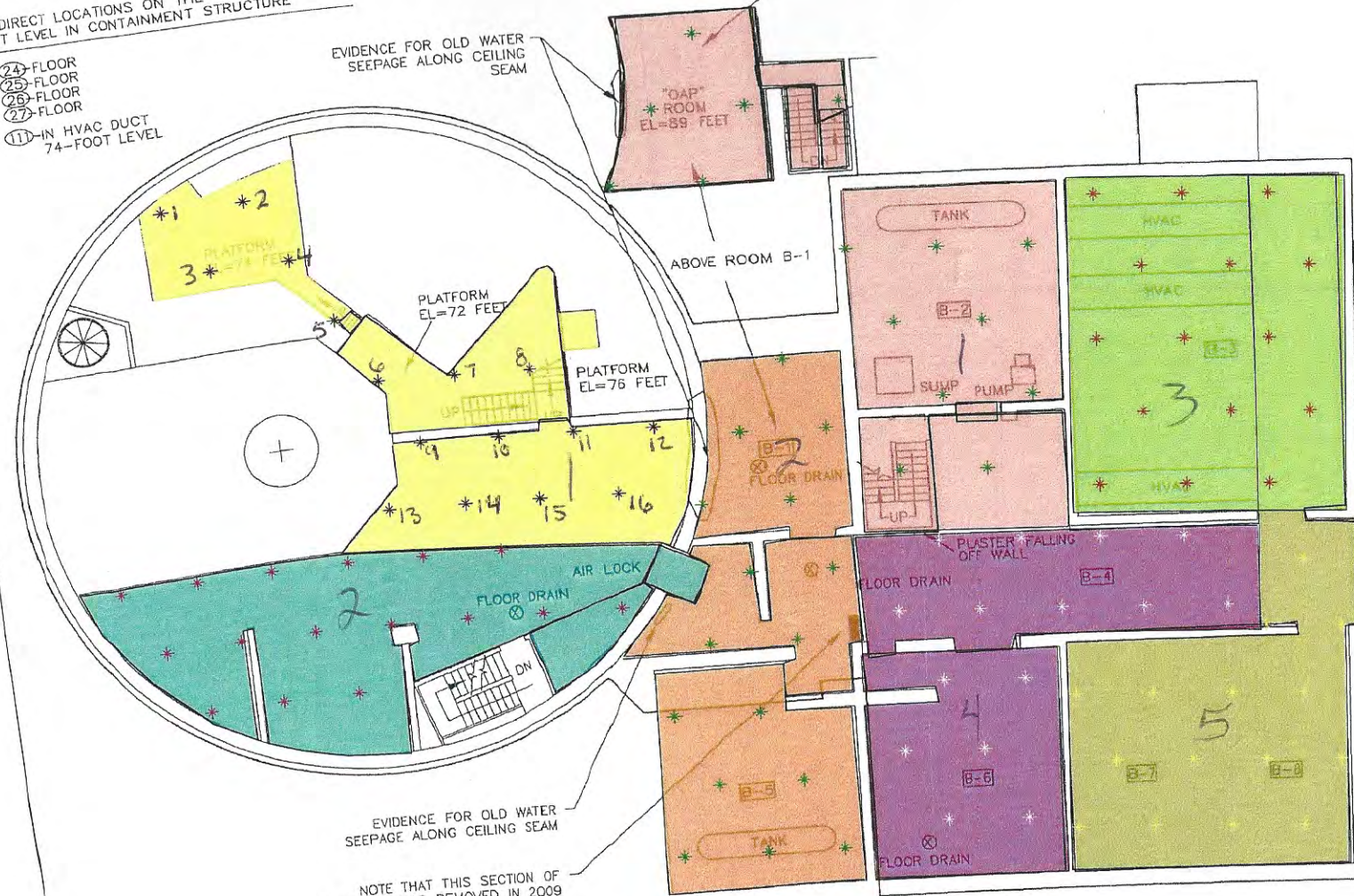
- (24) FLOOR
- (25) FLOOR
- (26) FLOOR
- (27) FLOOR
- (11) IN HVAC DUCT
74-FOOT LEVEL

EVIDENCE FOR OLD WATER
SEEPAGE ALONG CEILING SEAM

"OAP" (OPERATING AIR PRESSURE) ROOM REMODELED IN
2009. PAINTED AND SHELVES WERE ADDED.

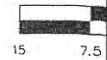
KEY:
NO. = GENERAL AREA
(NO) = SMEAR/DIRECT
[R-4] = ROOM NUMBER

PG. 2/3 JPH



SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN AUX. BLDG.

- (51) FLOOR
- (52) FLOOR
- (53) FLOOR
- (54) ON DRAIN
- (55) FLOOR
- (56) FLOOR
- (57) FLOOR
- (58) ON DRAIN
- (59) FLOOR
- (60) FLOOR
- (61) ON DRAIN
- (62) ON SUMP COVER
- (63) PUMP
- (64) FLOOR UNDER TANK
- (65) FLOOR
- (66) FLOOR
- (67) INSIDE HVAC ON FLOOR
- (68) FLOOR
- (69) FLOOR-89' LEVEL OF



RA

U.S. DEPT. OF ENERGY
2019 A
PH
DATE PREPARED APRIL

PLAN - 79 FOOT LEVEL

M: \LTS\111\0027\03\S23518\S2351800.DWG 4/17/2019 9:08:46 AM atencioj



Dade Moeller

Bench Counter Worksheet

Client Name:	PV PF	Instrument Make:	Ludlum
Client Address:	79F-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
	Background Count #1	0	55
	Background Count #2	0	49
1	See attached map	0	60
2		0	35
3		0	68
4		0	54
5		0	55
6		0	59
7		0	47
8		0	57
9		0	58
10		0	59
11		0	56
12		0	69
13		0	53
14		0	61
15		0	45
16		0	54
Additional Comment:		Completed 6/8/2020	
Analyzed by/date: (name/date)			

Critical Value 4.32 82p

Dade Moeller
Radiological Survey Report

[illegible]

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN CONTAINMENT STRUCTURE

- (24) FLOOR
- (25) FLOOR
- (26) FLOOR
- (27) FLOOR
- (11) IN HVAC DUCT
74-FOOT LEVEL

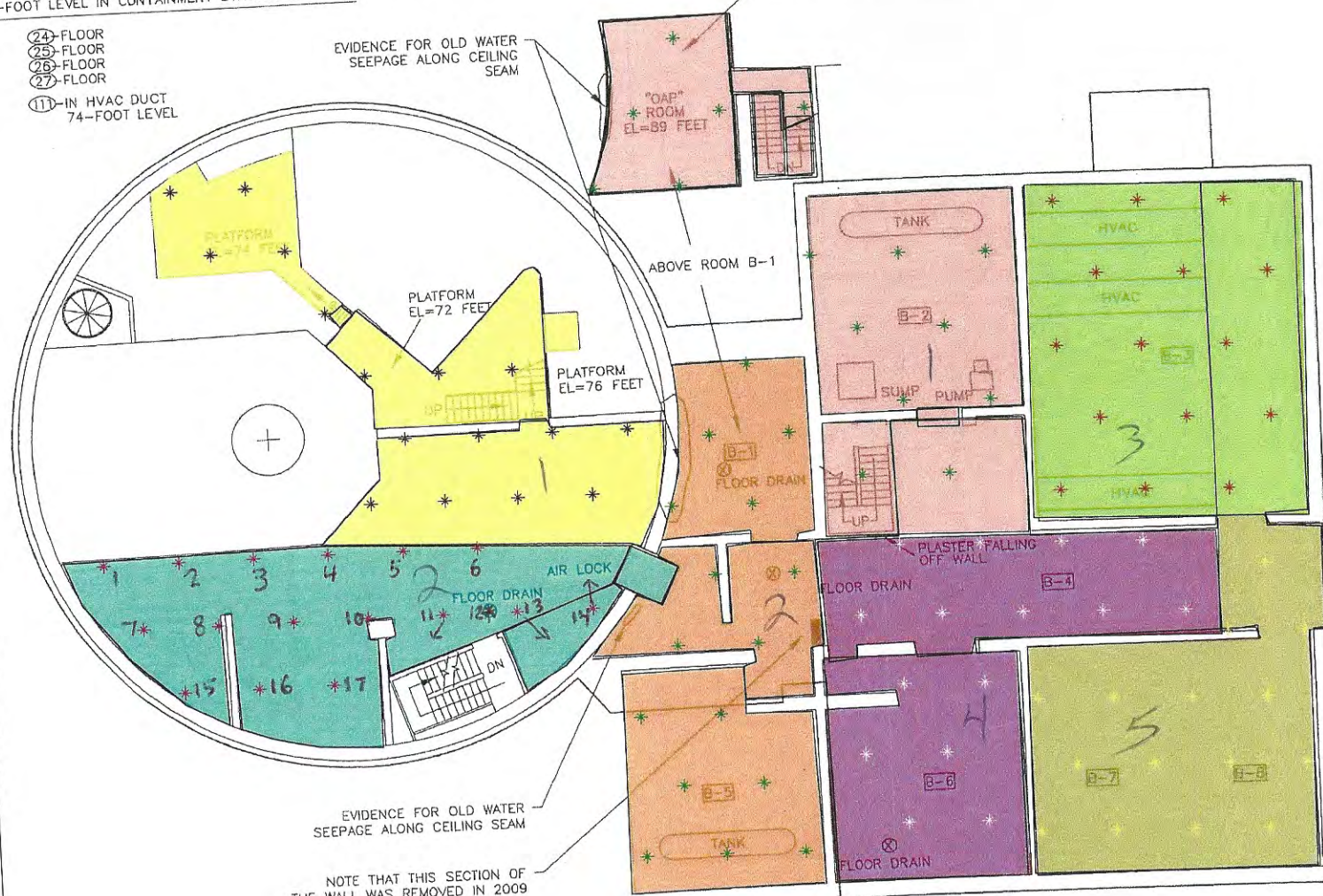
EVIDENCE FOR OLD WATER
SEEPAGE ALONG CEILING
SEAM

"OAP" (OPERATING AIR PRESSURE) ROOM REMODELED IN
2009. PAINTED AND SHELVES WERE ADDED.

KEY:

- NO. = GENERAL AREA
- (NO) = SMEAR/DIRECT
- R-4 = ROOM NUMBER

Pg. 2/3 JML



SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN AUX. BLDG.

- (51) FLOOR
- (52) FLOOR
- (53) FLOOR
- (54) ON DRAIN
- (55) FLOOR
- (56) FLOOR
- (57) FLOOR
- (58) ON DRAIN
- (59) FLOOR
- (60) FLOOR
- (61) ON DRAIN
- (62) ON SUMP COVER
- (63) PUMP
- (64) FLOOR UNDER TANK
- (65) FLOOR
- (66) FLOOR
- (67) INSIDE HVAC ON FLOOR
- (68) FLOOR
- (69) FLOOR-89' LEVEL OF

15 7.5

RA

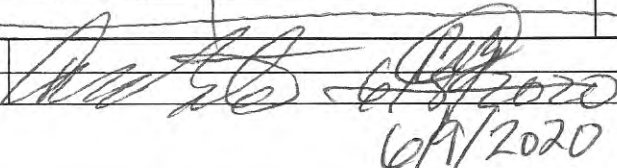
U.S. DEPT. OF ENERGY
2019 A
PI
DATE PREP APRIL

PLAN - 79 FOOT LEVEL

M:\LTS\111\0027\03\S23518\S2351800.DWG 4/17/2019 9:08:46 AM atencioj

Bench Counter Worksheet

Client Name:	PNDF	Instrument Make:	Lucium
Client Address:	79F-1-2 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	44
Background	Background Count #2	2	43
1	See Attached Map	0	45
2		0	44
3		0	53
4		0	35
5		1	54
6		0	29
7		0	55
8		1	41
9		0	46
10		1	33
11		0	29
12		0	40
13		0	52
14		0	48
15		0	49
16		1	38
17		0	38
Additional Comment:			
Analyzed by/date: (name/date)		 6/9/2020 6/9/2020	

Dade Moeller
Radiological Survey Report

[illegible]

PG. 1/3 JPR

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN CONTAINMENT STRUCTURE

- (24)-FLOOR
- (25)-FLOOR
- (26)-FLOOR
- (27)-FLOOR
- (11)-IN HVAC DUCT
74-FOOT LEVEL

EVIDENCE FOR OLD WATER
SEEPAGE ALONG CEILING
SEAM

"OAP" (OPERATING AIR PRESSURE) ROOM REMODELED IN
2009. PAINTED AND SHELVES WERE ADDED.

KEY:

- NO = GENERAL AREA
- (NO) = SMEAR/DIRECT
- R-4 = ROOM NUMBER

SMEAR/DIRECT LOCATIONS ON THE
79-FOOT LEVEL IN AUX. BLDG.

- (51)-FLOOR
- (52)-FLOOR
- (53)-FLOOR
- (54)-ON DRAIN
- (55)-FLOOR
- (56)-FLOOR
- (57)-FLOOR
- (58)-ON DRAIN
- (59)-FLOOR
- (60)-FLOOR
- (61)-ON DRAIN
- (62)-ON SUMP COVER
- (63)-PUMP
- (64)-FLOOR UNDER TANK
- (65)-FLOOR
- (66)-FLOOR
- (67)-INSIDE HVAC ON FLOOR
- (68)-FLOOR
- (69)-FLOOR-89' LEVEL OF

ROLL-UP
DOOR

15 7.5

RA

U.S. DEP
OF ENERGY
2019 A
PI
DATE PRE
APRIL

PLAN - 79 FOOT LEVEL

M:\LTS\111\0027\03\S23518\S2351800.DWG 4/17/2019 9:08:46 AM atencioj

L = TAKEN ~ 0-2 FT HIGH
M = TAKEN ~ 2-4 FT HIGH
H = TAKEN ~ 4-6 FT HIGH

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	79W-3-1 CSS	Instrument Model:	2929
		Instrument S/N:	115411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	45
Background	Background Count #2	1	41
1	See attached map	0	42
2		1	41
3		1	55
4		0	39
5		0	36
6		0	37
7		1	38
8		2	42
9		0	49
10		1	51
11		0	29
12		0	41
13		1	42
14		0	42
15		0	47
Additional Comment:			
Analyzed by/date: (name/date)		C. J. 6/8/2020	

Dade Moeller
Radiological Survey Report

Laboratory Description: <u>79W-1-2</u>				Date: <u>6/9/2020</u>		
Purpose of Survey: <u>CSS</u>				Performed By:		
				Print: <u>SEFF GAGNE</u>		
				Sign: <u>[Signature]</u>		
Sketch of Area - SEE ATTACHED PAGES FOR SKETCH - SURVEYED 100% OFF ALL ACCESSIBLE WALLS USING 2224.				Direct Results cpm/100cm ²		
Direct #	Beta	Alpha				
1	95	6				
2	159	0				
3	99	2				
4	120	0				
5	153	0				
6	129	2				
7	159	7				
8	125	3				
9	144	3				
10	137	2				
11	133	2				
12	147	4				
13	153	7				
14	136	4				
15	164	1				

Legend: # - Direct Measurement
 # - Scan Direct Measurement
 ⊕ - Smear Location

Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	3 α / 135β		Tl-230/I-129	288α / 276β	CPM
				POST	307α / 329β	CPM

Comments, including corrective actions if any: N/A

PG. 1/4 JAL


 N Hal Rollup Edge B-8 East Wall B-8 B-7 South Wall B-7 West Wall B-7 B-8 North W/S Hall
 Doorway Doorway

Aux 5


 B-4 North Walls B-4 South Wall B-6 North B-6 East Wall B-6 South Wall B-6 West Wall B-6 North B-6 West Edge North Edge-South
 Doorway Doorway Standalone Wall

Aux 4


 B-3 South Wall B-3 West Wall B-3 North Wall B-3 East Wall South Wall

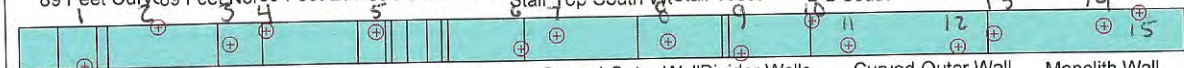
Aux 3


 Curved North East West B-1 South B-1 Curved W B-1 North Wall B-1 East W B-1 Alcove B-1 Entrance B-5 North B-5 East Wall B-5 South Wall B-5 West Wall B-5 North Wall South Wall to Curve
 Airlock North East West Alcove

Aux 2


 89 Feet Curve 89 Feet North 89 Feet East 89 Feet South Stair Stair Stair Landing Stair Stair B-2 South B-2 West Wall B-2 North Wall B-2 East Wall B-2 S to Alcove Alcove East Alcove West Wall
 Small Doorway Walls

Aux 1


 Inside Airlock Curved Outside Stairwell Walls Divider Divider Wall Curved Outer Wall Divider Walls Curved Outer Wall Monolith Wall

Rx 2

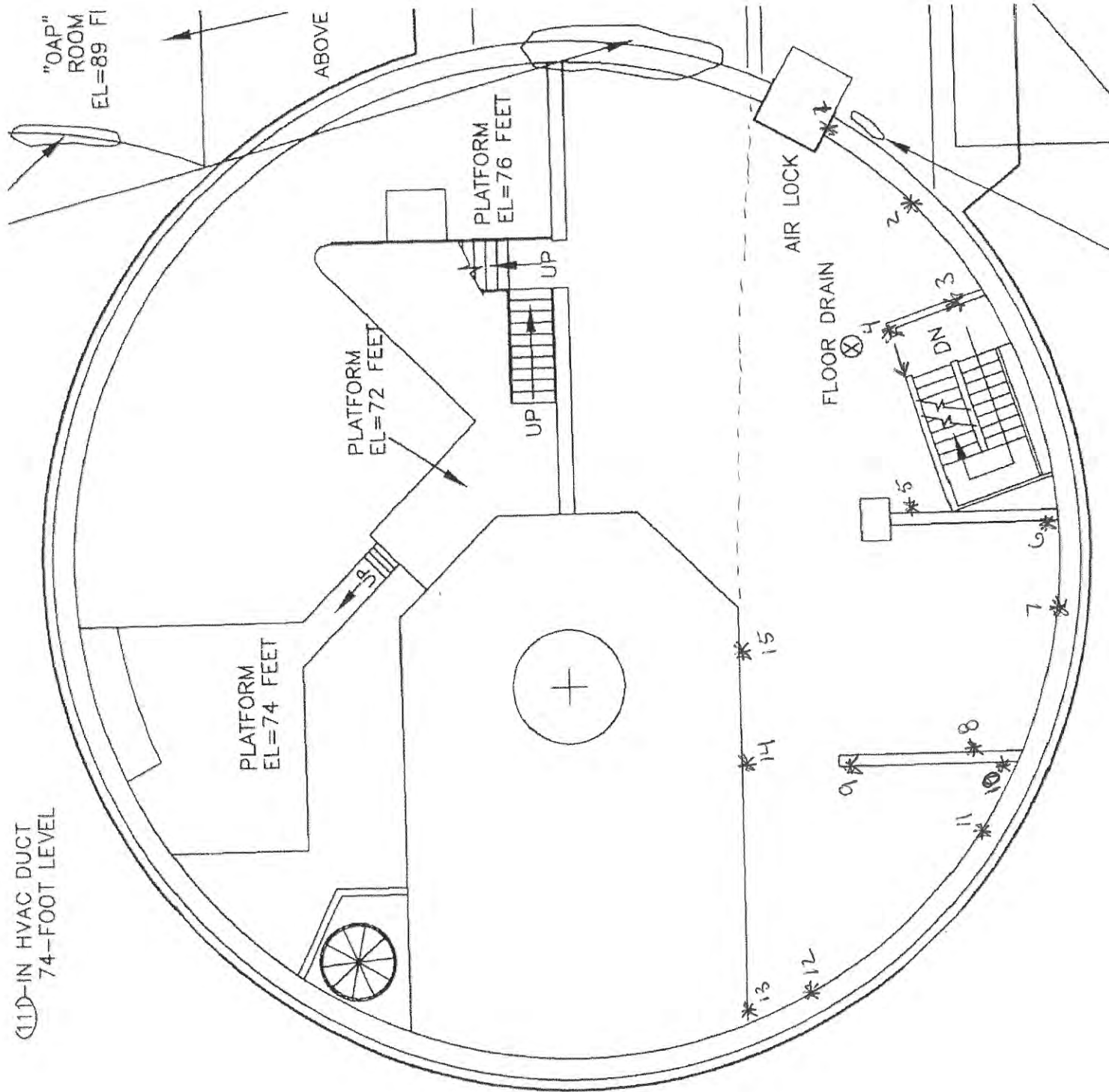

 74 Feet Platform Monolith Room Door Room Divider Monolith Outside Curved Wall Room Doorway Wall

Rx 1

1/2/99
 P6.2/4

79 Foot Level walls

(11) 17-IN HVAC DUCT
74-FOOT LEVEL



"OAP"
ROOM
EL=89 FI

ABOVE

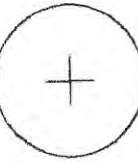
PLATFORM
EL=76 FEET

PLATFORM
EL=72 FEET

PLATFORM
EL=74 FEET

AIR LOCK

FLOOR DRAIN



PG. 314 JPM

79 Foot

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	79W-1-2 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	47
Background	Background Count #2	0	35
1	See attached map	0	41
2		0	46
3		0	50
4		0	40
5		0	47
6		0	33
7		1	38
8		1	36
9		0	45
10		0	47
11		0	46
12		0	37
13		1	50
14		0	29
15		0	44
Additional Comment:			
Analyzed by/date: (name/date)		C. St. 6/8/2020 6/9/2020	

Dade Moeller
Radiological Survey Report

Laboratory Description: <u>83F-1-1</u>				Date: <u>6/8/2020</u>		
Purpose of Survey: <u>CSS</u>				Performed By:		
				Print: <u>JEFF GAGNE</u>		
				Sign: <u>[Signature]</u>		
Sketch of Area -SEE ATTACHED PAGE FOR SKETCH -NO FLOORING ON SE CORNER OF MAP				Direct Results cpm/100cm ²		
				Direct #	Beta	Alpha
				1	133	1
				2	189	3
				3	129	3
				4	113	2
				5	167	4
				6	136	3
				7	140	3
				8	104	3
				9	134	2
				10	83	2
				11	88	5
				12	105	3
				13	79	6
				14	101	2
				15	88	3
				16	86	5
				17	91	2
				18	105	0
19	100	2				
/						
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location						
Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	0.2/123 B		Tl-230/I-129	351.0/33.15	CPM
				POST	325.2/28.78	CPM
Comments, including corrective actions if any: <u>N/A</u>						

38-FOOT LEVEL
2016 INSPECTION

- (28) ON TOP OF
- (29) GRATING OF
- (30) PIPE ADJAC
- (31) IN DUCT
- (32) FLOOR GRA
- (33) PUMP PEDE
- (34) IN DRAIN
- (35) IN DRAIN
- (36) PUMP PEDE
- (37) STAIRWELL

Pg. 2/3 JPL

HVAC VENT

PLATFORM
EL=83 FEET

PLATFORM
OPENING

DN

GRATING

GRATING-PLATFORM
HVAC PLENUM
PIPE ADJACENT TO PLENUM

HVAC PLENUM

FLOOR GRATING

SURFACE CRACK
NOTED IN 2018

FLOOR
ELEVATION = 78.5 FEET

PLATFORM
EL=85.6 FEET

LADDER FROM
78.5 TO 85.6
LEVELS

83 Ft Level



Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	83 F-1-1	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

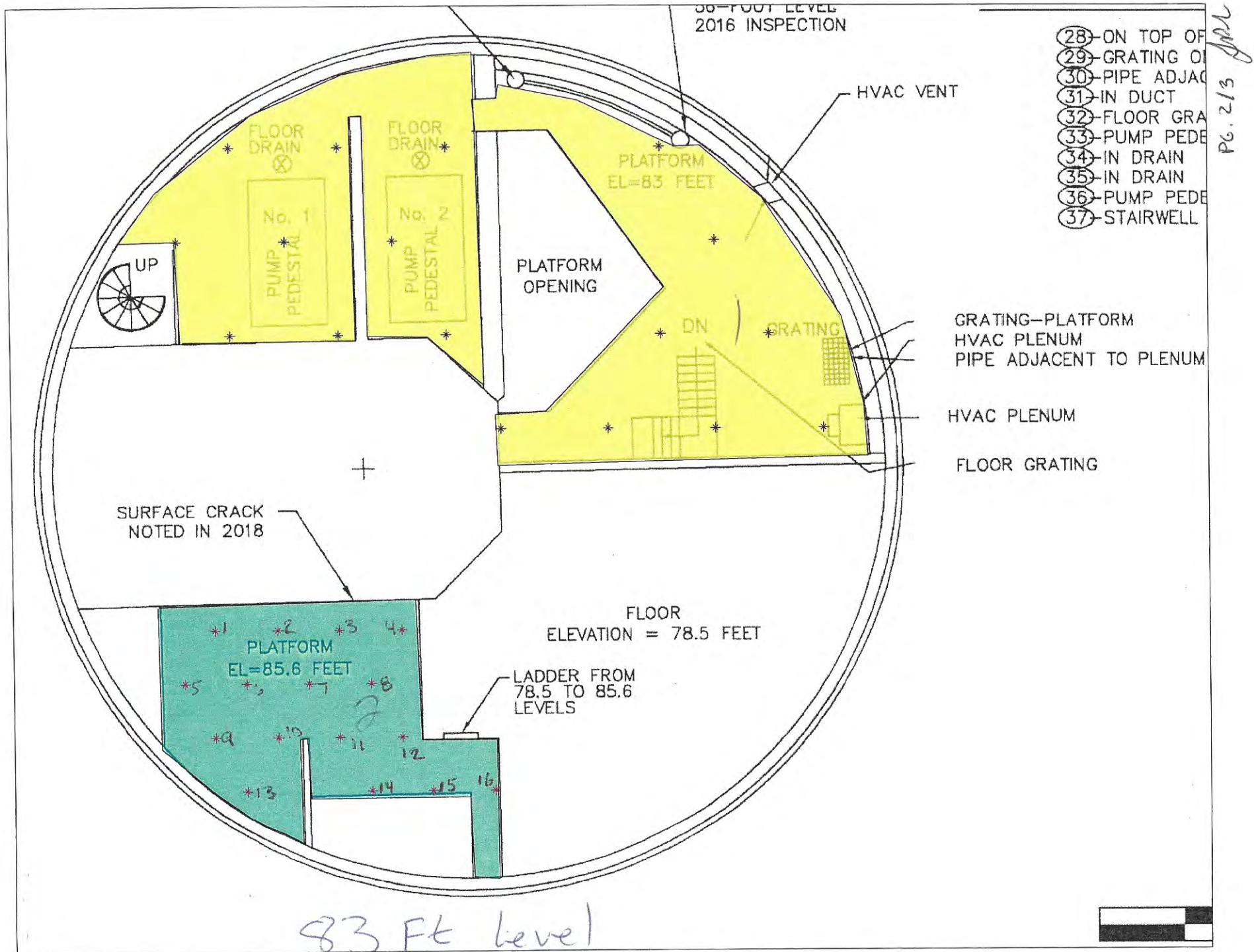
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	59
Background	Background Count #2	1	43
1	See attached map	0	41
2		3	53
3		0	48
4		0	49
5		0	60
6		0	48
7		1	55
8		1	56
9		1	65
10		0	62
11		0	54
12		1	62
13		0	54
14		0	50
15		0	56
16		1	46
17		1	51
18		1	57
19		0	41
Additional Comment:			
Analyzed by/date: (name/date)			

Critical values: 4.3α 82β

Dade Moeller
Radiological Survey Report

Laboratory Description:	83F-1-2					
Purpose of Survey:	CSS					
Date:	6/8/2020					
Performed By:						
Print:	JEFF GAGNE					
Sign:						
Sketch of Area	- SEE ATTACHED PAGE FOR SKETCH - ELEVATED GRATE FLOORING FOR ALL LOCATIONS EXCEPT #14, WHICH IS A METAL PLATE.					
Direct Results cpm/100cm ²						
Direct #	Beta	Alpha				
1	105	2				
2	132	5				
3	128	4				
4	122	8				
5	143	5				
6	115	4				
7	89	6				
8	126	5				
9	110	1				
10	117	0				
11	128	5				
12	142	3				
13	108	4				
14	128	6				
15	115	5				
16	130	2				
Legend: # - Direct Measurement # - Scan Direct Measurment ⊕ - Smear Location						
Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	Oα / I23 B		Tl-230/I-129	309α / 340β	CPM
				POST	306α / 308β	CPM
Comments, including corrective actions if any:						

PL. 1/3 JPL





Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	83F-1-2 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

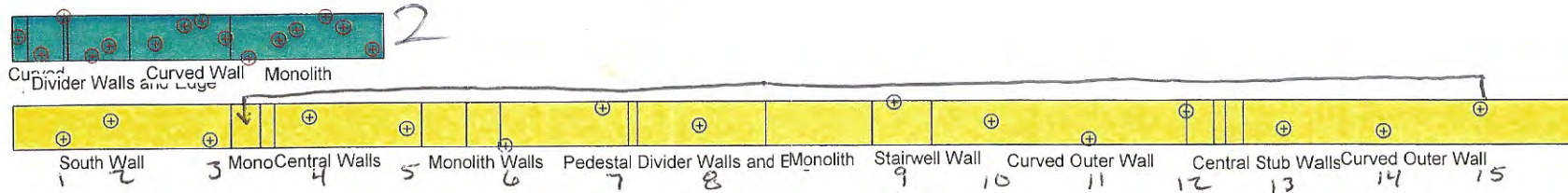
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	38
Background	Background Count #2	0	44
1	See Attached Map	0	39
2		1	32
3		0	35
4		0	39
5		0	44
6		0	48
7		0	45
8		0	50
9		0	35
10		0	35
11		1	40
12		1	44
13		1	41
14		0	38
15		0	35
16		0	42
Additional Comment:			
Analyzed by/date: (name/date)		C. Smith 6/8/2020	

Critical Values: α 5.0 β 79

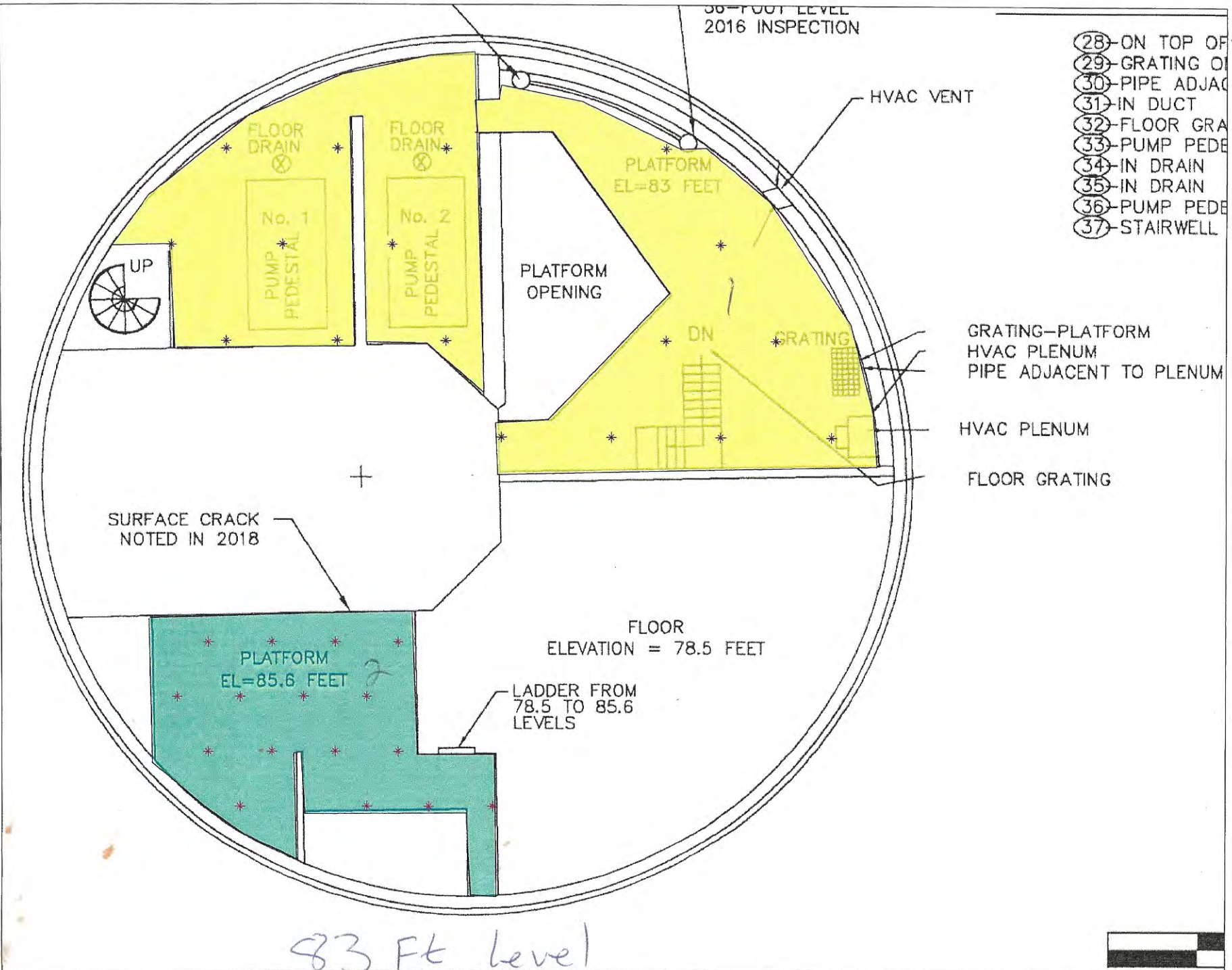
Dade Moeller
Radiological Survey Report

D6.114 *for*

Pl. 24 Jmk



83 ft. walls



Pl. 3/4 Jan

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Lucylin
Client Address:	83 W-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	42
Background	Background Count #2	0	40
1	See attached Map	0	50
2		1	43
3		0	48
4		0	45
5		0	48
6		0	40
7		1	36
8		0	50
9		0	46
10		0	29
11		0	29
12		0	45
13		0	46
14		0	43
15		0	36
Additional Comment:		Analyzed by/date: (name/date) <i>Ames 6/8/2020</i>	

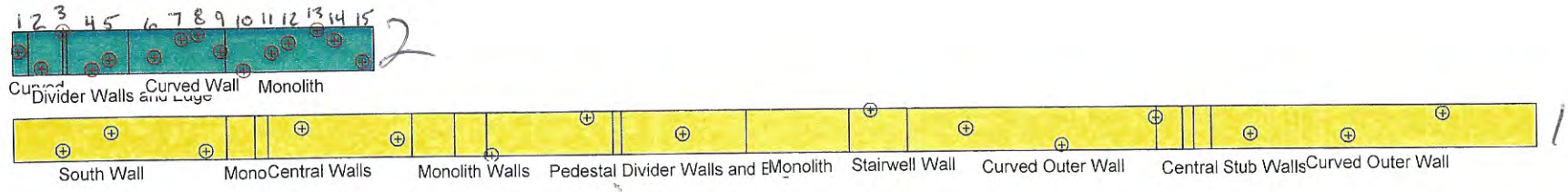
Critical values: 5α 79B

Dade Moeller
Radiological Survey Report

Laboratory Description: 83W-1-2				Date: 6/8/2020					
Purpose of Survey: CSS				Performed By:					
				Print: JEFF GAGNE					
				Sign: [Signature]					
Sketch of Area - SEE ATTACHED PAGES FOR SKETCH - 100% OF WALLS SURVEYED USING 2224.				Direct Results cpm/100cm ²					
				Direct #	Beta	Alpha			
				1	174	5			
				2	138	1			
				3	112	4			
				4	166	1			
				5	168	7			
				6	179	5			
				7	184	4			
				8	143	1			
				9	162	5			
				10	133	5			
				11	119	5			
				12	135	4			
				13	136	2			
				14	110	4			
				15	118	1			
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location									
Instrumentation				Source Check (pre/post)					
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units			
2224	162850	0.2 / 123 B		Tl-230 / I-129	309.4 / 340.8	CPM			
				POST	306.2 / 308.8	CPM			
Comments, including corrective actions if any: N/A									

PG. 1/4 JRM

Pg. 214 JPL



83 ft. walls

38-FOOT LEVEL
2016 INSPECTION

PG. 3/4 JPL

- (28) ON TOP OF
- (29) GRATING ON
- (30) PIPE ADJAC
- (31) IN DUCT
- (32) FLOOR GRA
- (33) PUMP PEDE
- (34) IN DRAIN
- (35) IN DRAIN
- (36) PUMP PEDE
- (37) STAIRWELL

HVAC VENT

PLATFORM
OPENING

PLATFORM
EL=83 FEET

DN

GRATING

GRATING-PLATFORM
HVAC PLENUM
PIPE ADJACENT TO PLENUM

HVAC PLENUM

FLOOR GRATING

SURFACE CRACK
NOTED IN 2018

FLOOR
ELEVATION = 78.5 FEET

LADDER FROM
78.5 TO 85.6
LEVELS

PLATFORM
EL=85.6 FEET

No. 1
PUMP
PEDESTAL

No. 2
PUMP
PEDESTAL

FLOOR
DRAIN

FLOOR
DRAIN



83 Ft Level





Dade Moeller

Bench Counter Worksheet

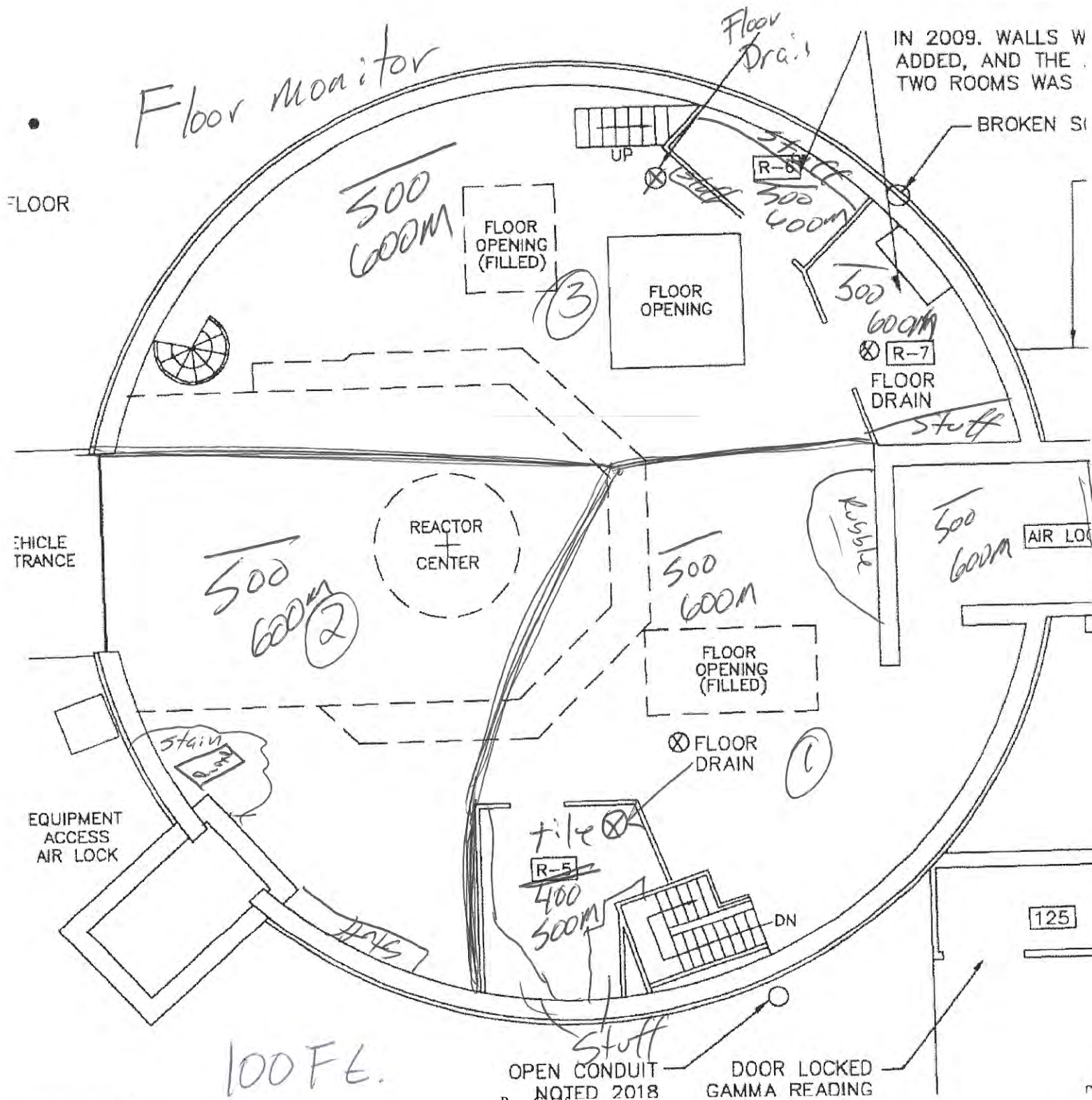
Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	83 W - 1 - 2 CSS	Instrument Model:	2929
		Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	64
Background	Background Count #2	0	60
1	See attached map	0	49
2		1	61
3		0	45
4		1	56
5		0	50
6		0	48
7		0	59
8		0	44
9		0	72
10		0	48
11		0	63
12		1	52
13		1	49
14		0	48
15		1	56
Additional Comment:			
Analyzed by/date: (name/date)		C. [Signature] 6/8/2020	

Critical values: α 4.3 p82

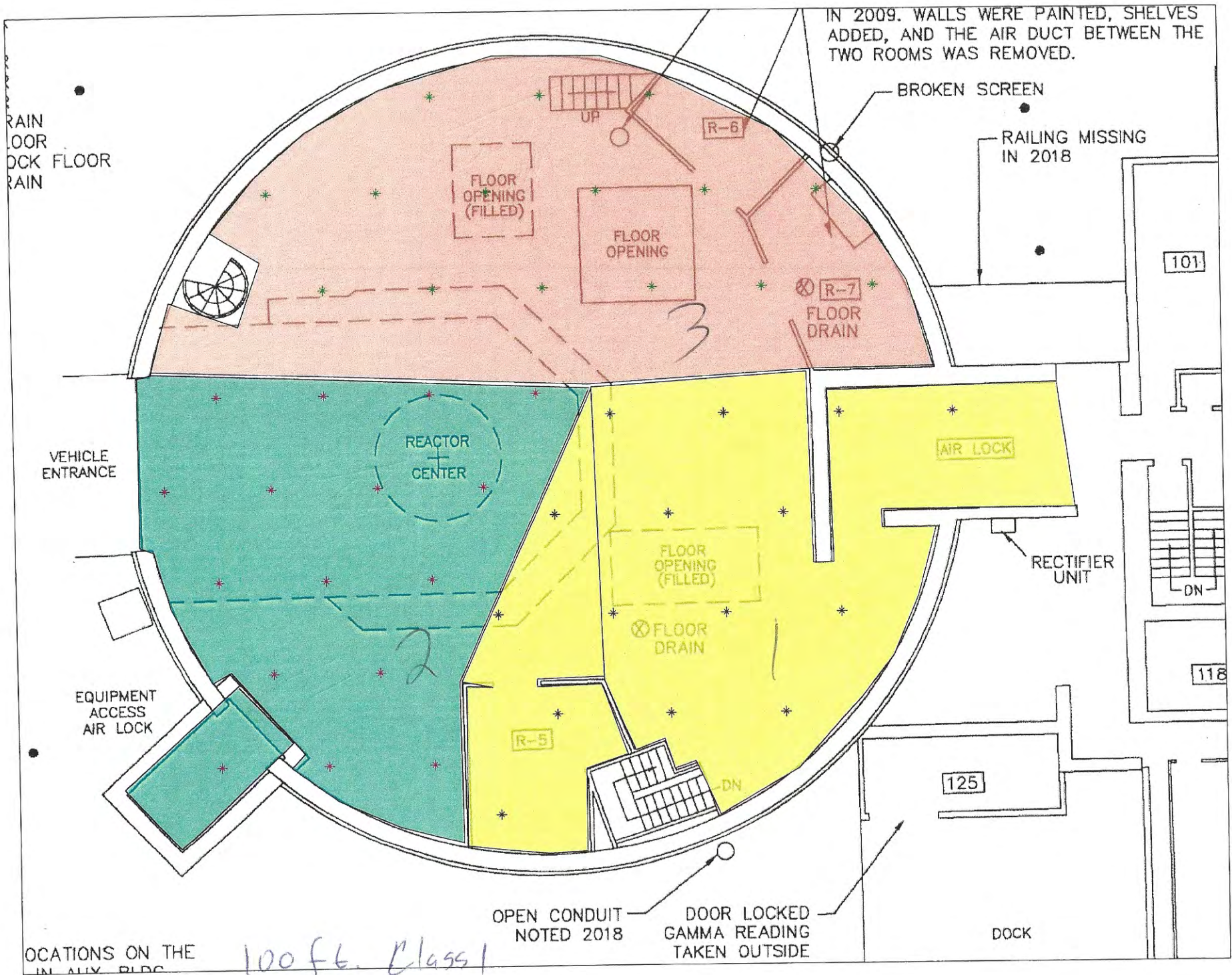
Dade Moeller
Radiological Survey Report

Laboratory Description: <u>PNDF 100F-1-1</u>				Date: <u>6/4/2020</u>		
Purpose of Survey: <u>-1-2</u>				Performed By:		
<u>Floor Monitor & NaI</u> <u>-1-3</u>				Print: <u>Clark Barton</u>		
<u>W-1-1</u>				Sign: <u>[Signature]</u>		
Sketch of Area				Direct Results		
See attached Maps				cpm/100cm ²		
				Direct #	Beta	Alpha
				Legend: # - Direct Measurement		
# - Scan Direct Measurement						
⊕ - Smear Location						
Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
<u>239-1F</u>	<u>187246</u>	<u>2.82/5510</u>	<u>22.92/325p</u>	<u>Th232</u>	<u>96/821</u>	<u>CPM</u>
<u>NaI</u>	<u>251999</u>	<u>4000cpm</u>	<u>N/A</u>	<u>Cs137</u>	<u>280000</u>	<u>CPM</u>
Comments, including corrective actions if any:						
<u>Critical values FM = 132 643p</u>						
<u>NaI = 3000 - 8000</u>						



IN 2009. WALLS W
ADDED, AND THE
TWO ROOMS WAS

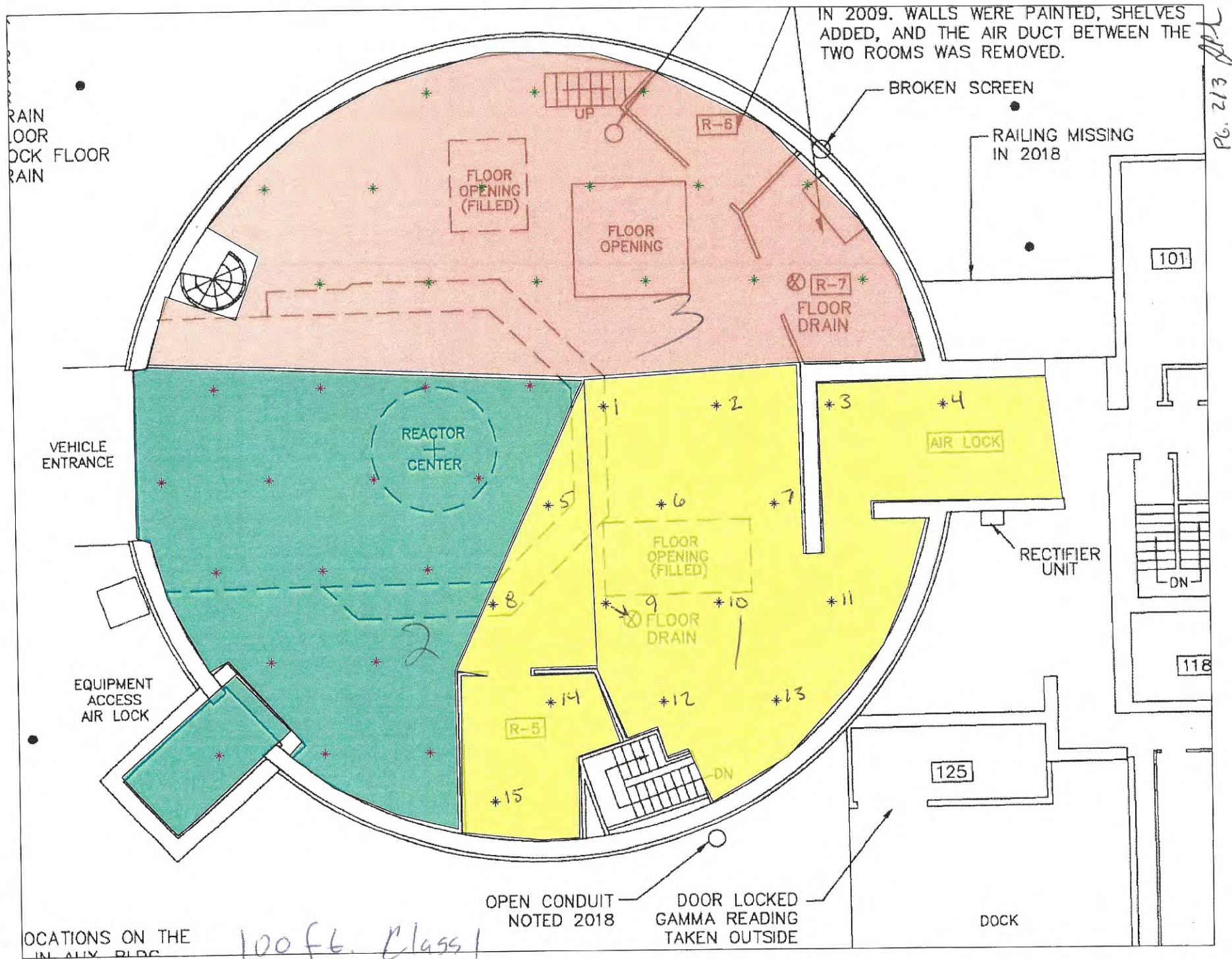
02/16/19
02/19/2020



Dade Moeller
Radiological Survey Report

[illegible]

PG. 1/3 *gph*





Dade Moeller

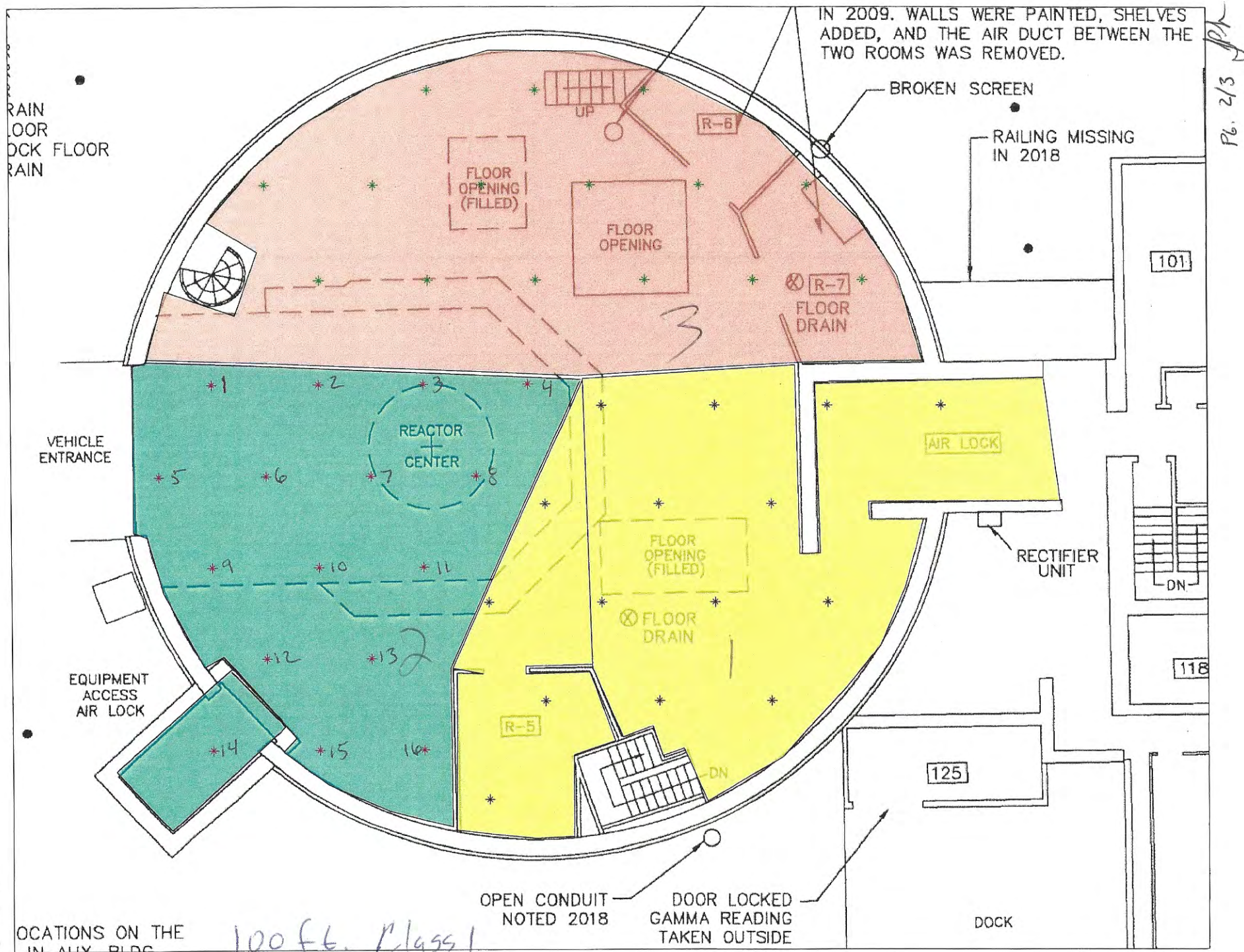
Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	100F-1-1	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	52
Background	Background Count #2	0	56
1		0	56
2		0	61
3		0	69
4		0	51
5		0	61
6		0	68
7		0	56
8		0	52
9		0	58
10		0	45
11		0	59
12		0	50
13		0	54
14		0	49
15		0	56
Additional Comment:		Critical value 4.32 82B	
Analyzed by/date: (name/date)		Cecilia 6/5/2020	

Dade Moeller
Radiological Survey Report

Laboratory Description: 100F-1-2				Date: 6/5/2020					
Purpose of Survey: CSS				Performed By:					
				Print: JEFF GAGNE					
				Sign: <i>[Signature]</i>					
Sketch of Area - SEE ATTACHED PAGE FOR SKETCH - GREEN ZONE FLOOR				Direct Results cpm/100cm ²					
				Direct #	Beta	Alpha			
				1	159	3			
				2	193	1			
				3	180	3			
				4	195	2			
				5	171	1			
				6	165	2			
				7	168	1			
				8	201	4			
				9	184	3			
				10	195	0			
				11	184	2			
				12	178	1			
				13	195	1			
				14	108	0			
				15	182	1			
				16	166	4			
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location				Source Check (pre/post)					
Instrumentation				Source Check (pre/post)					
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units			
2224	162850	2α / 138β		Th-230 / I-129	262α / 329β	CPM			
				POST	284α / 344β	CPM			
Comments, including corrective actions if any: N/A									



Bench Counter Worksheet

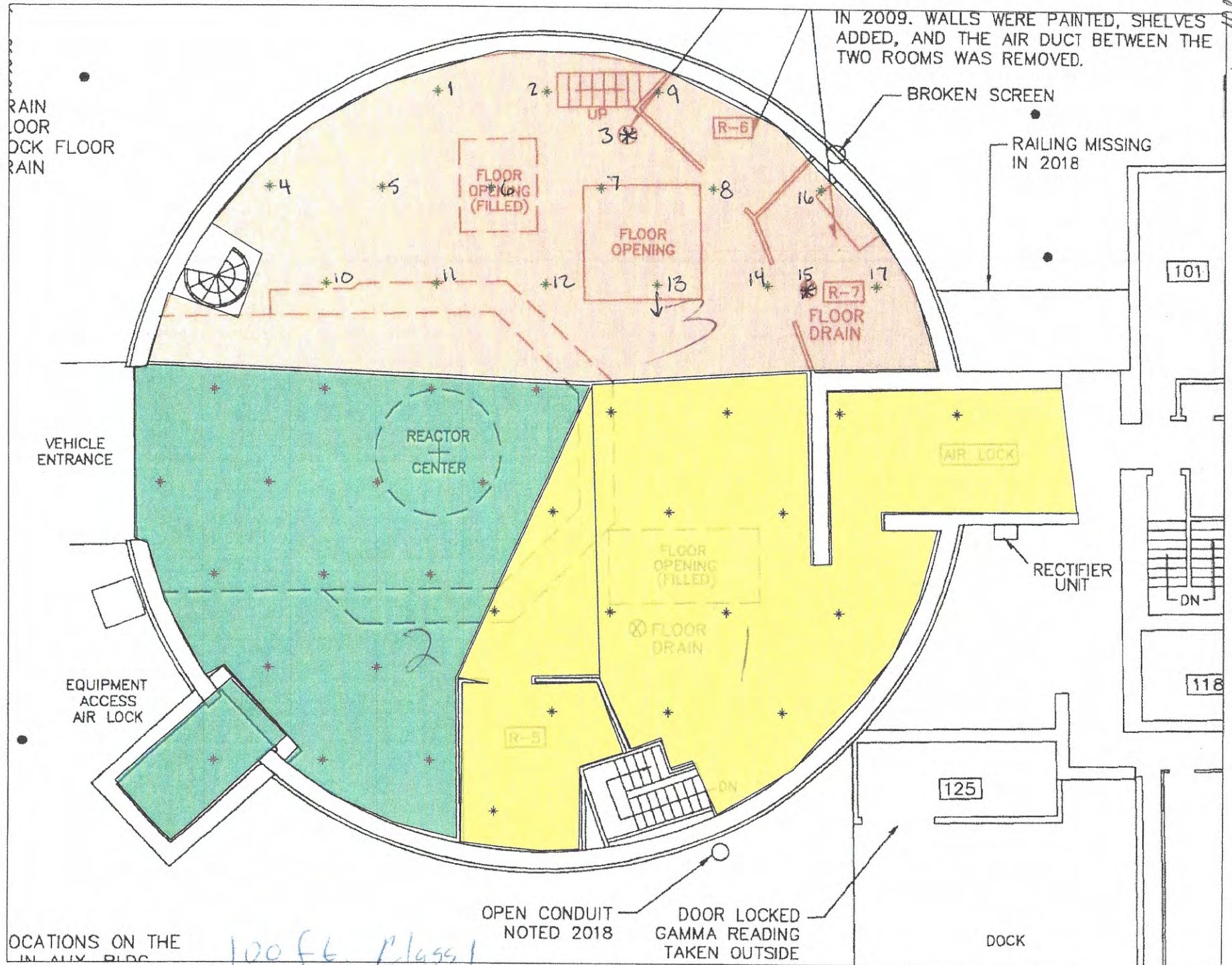
Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	100F-1-2	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	53
Background	Background Count #2	0	59
1	See attached map	0	47
2		0	74
3		0	56
4		0	50
5		1	43
6		0	56
7		0	59
8		0	43
9		0	49
10		1	50
11		0	60
12		1	60
13		1	61
14		0	50
15		0	51
16		1	55
Additional Comment:			
Analyzed by/date: (name/date)		C. J. H. 6/5/2020	

Critical Value α 4.3 β 82

Dade Moeller
Radiological Survey Report

Laboratory Description: 100F-1-3				Date: 6/5/2020		
Purpose of Survey: CSS				Performed By:		
				Print: JEFF GAGNE		
				Sign: <i>[Signature]</i>		
Sketch of Area - SEE ATTACHED PAGE FOR SKETCH - RED ZONE FLOOR				Direct Results cpm/100cm ²		
				Direct #	Beta	Alpha
				1	134	1
				2	160	3
				3	164	2
				4	175	2
				5	146	1
				6	159	2
				7	175	1
				8	175	2
				9	191	2
				10	173	2
				11	172	2
				12	182	3
				13	163	3
				14	164	3
				15	161	0
				16	172	4
				17	164	2
				/		
Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location						
Instrumentation				Source Check (pre/post)		
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units
2224	162850	2 α / 138 β	/	Tk-230/I-129	320α / 334β	CPM
				POST	358α / 335β	CPM
Comments, including corrective actions if any: N/A						



Pb. 2/13 JPL

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	100 F-1-3	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	63
Background	Background Count #2	1	53
1	See attached map	0	44
2		0	51
3		0	38
4		0	53
5		1	56
6		0	55
7		0	54
8		1	62
9		0	51
10		1	59
11		1	50
12		1	45
13		1	55
14		1	59
15		0	48
16		0	71
17		1	55
Additional Comment:			
Analyzed by/date: (name/date)		CJ/SB 6/5/2020	

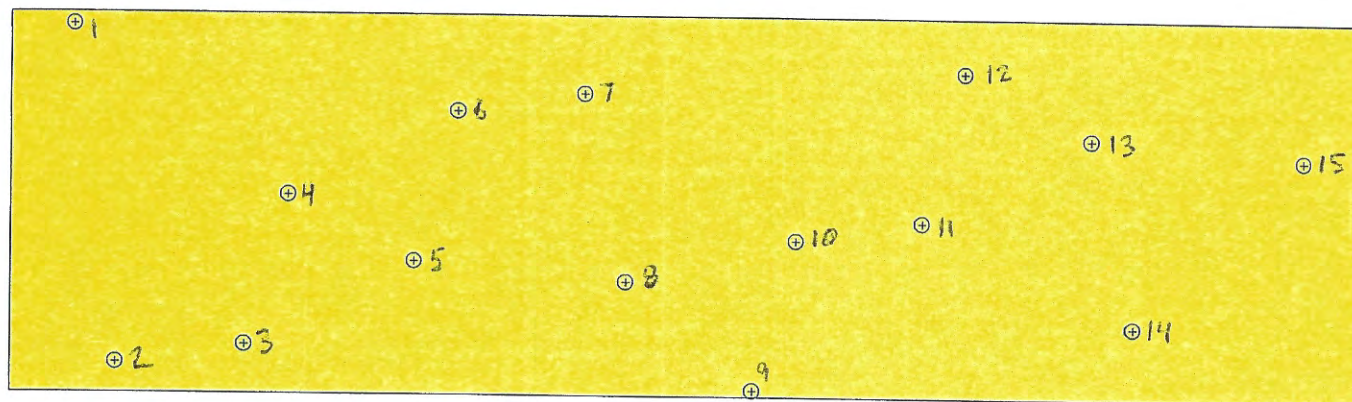
Critical Value 4.32 82B

Dade Moeller
Radiological Survey Report

Laboratory Description: <u>100 UW-1-1</u> Purpose of Survey: <u>CSS</u>				Date: <u>6/3/2020</u> Performed By: Print: <u>JEFF GAGNE</u> Sign: _____																																																								
Sketch of Area - INSIDE REACTOR DOME - SEE ATTACHED PAGE FOR SKETCH, LOCATIONS, AND HEIGHTS - COMPUTER GENERATED HEIGHT WERE ADJUSTED AS NEEDED DUE TO ACCESS RESTRICTIONS. HEIGHTS USED LISTED ON ATTACHED PAGE. - ADDITIONAL DIRECT AND 3 SMEARS TAKEN ON INSIDE OF EXPOSED HVAC DUCTWORK.				Direct Results cpm/100cm ² <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">Direct #</th> <th style="width: 25%;">Beta</th> <th style="width: 25%;">Alpha</th> </tr> </thead> <tbody> <tr><td>1</td><td>205</td><td>4</td></tr> <tr><td>2</td><td>146</td><td>3</td></tr> <tr><td>3</td><td>191</td><td>5</td></tr> <tr><td>4</td><td>210</td><td>2</td></tr> <tr><td>5</td><td>172</td><td>1</td></tr> <tr><td>6</td><td>163</td><td>5</td></tr> <tr><td>7</td><td>169</td><td>4</td></tr> <tr><td>8</td><td>196</td><td>0</td></tr> <tr><td>9</td><td>154</td><td>2</td></tr> <tr><td>10</td><td>176</td><td>2</td></tr> <tr><td>11</td><td>161</td><td>2</td></tr> <tr><td>12</td><td>183</td><td>3</td></tr> <tr><td>13</td><td>198</td><td>3</td></tr> <tr><td>14</td><td>172</td><td>2</td></tr> <tr><td>15</td><td>184</td><td>3</td></tr> <tr><td>16</td><td>130</td><td>1</td></tr> <tr><td colspan="3" style="height: 150px; position: relative;"> </td></tr> </tbody> </table>			Direct #	Beta	Alpha	1	205	4	2	146	3	3	191	5	4	210	2	5	172	1	6	163	5	7	169	4	8	196	0	9	154	2	10	176	2	11	161	2	12	183	3	13	198	3	14	172	2	15	184	3	16	130	1			
Direct #	Beta	Alpha																																																										
1	205	4																																																										
2	146	3																																																										
3	191	5																																																										
4	210	2																																																										
5	172	1																																																										
6	163	5																																																										
7	169	4																																																										
8	196	0																																																										
9	154	2																																																										
10	176	2																																																										
11	161	2																																																										
12	183	3																																																										
13	198	3																																																										
14	172	2																																																										
15	184	3																																																										
16	130	1																																																										
Legend: # - Direct Measurement # - Scan Direct Measurment ⊕ - Smear Location																																																												
Instrumentation				Source Check (pre/post)																																																								
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units																																																						
2224	162850	1α / 122β		Tl-230/I-129	347α / 364β	CPM																																																						
				POST	298α / 322β	CPM																																																						
Comments, including corrective actions if any: <u>15 COMPUTER RANDOMIZED LOCATIONS WERE CHOSEN.</u>																																																												

PG. 1/4 *JMR*

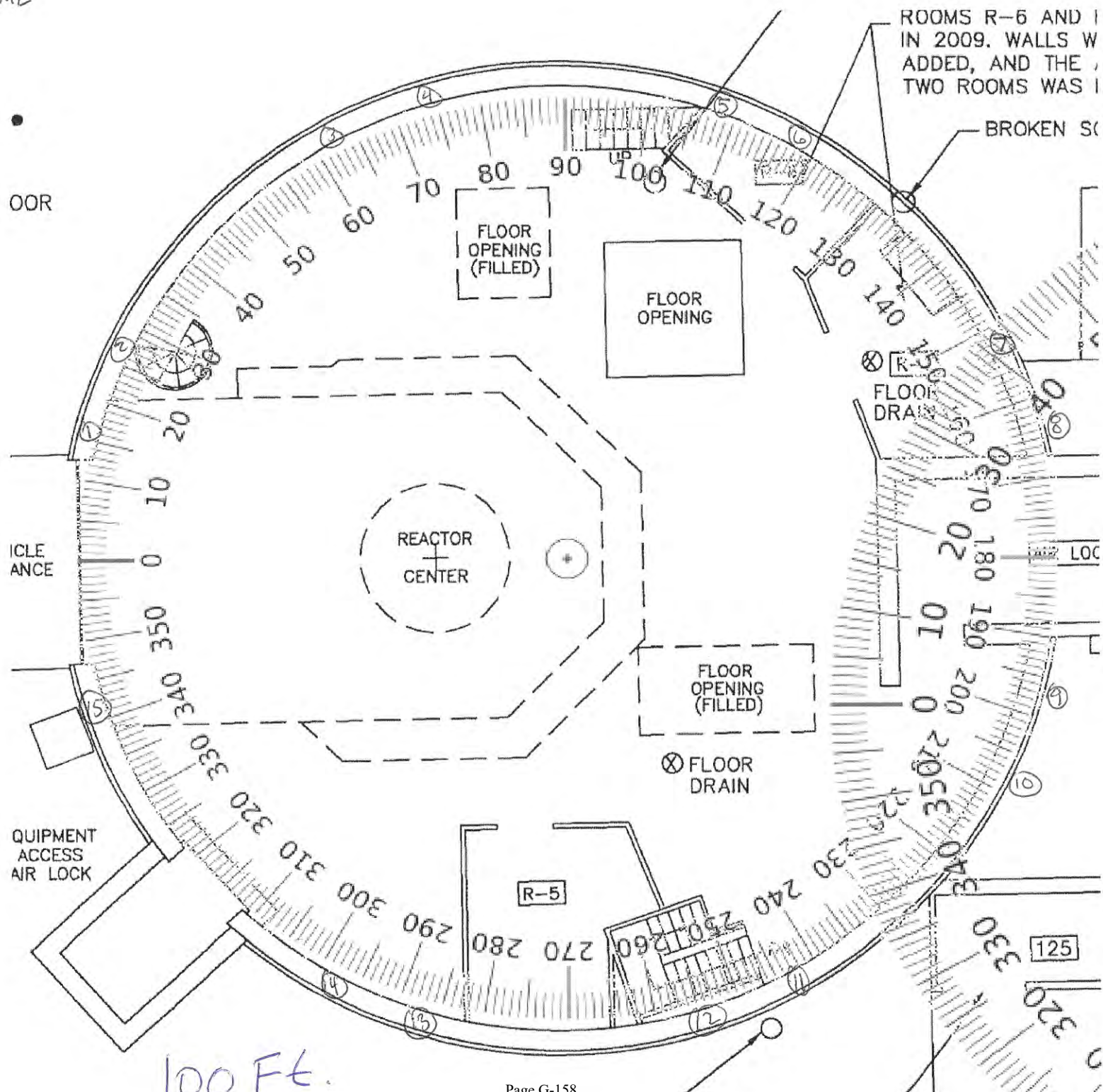
PG. 2/4 JPL



1. 16° 56 FT.
2. 28° 7.2 FT.
3. 62° 8.6 FT.
4. 73° 47 FT.
5. 107° 25 FT.
6. 118° 15 FT.
7. 152° 20 FT.
8. 163° 20.2 FT.
9. 197° 6.7 FT.
10. 208° 27.7 FT.
11. 242° 31 FT.
12. 253° 19 FT.
13. 287° 54 FT.
14. 298° 12.7 FT.
15. 343° 47 FT.

100 FL. 3+ meter walls

INSIDE DOME



Pl. 3/4 JPL

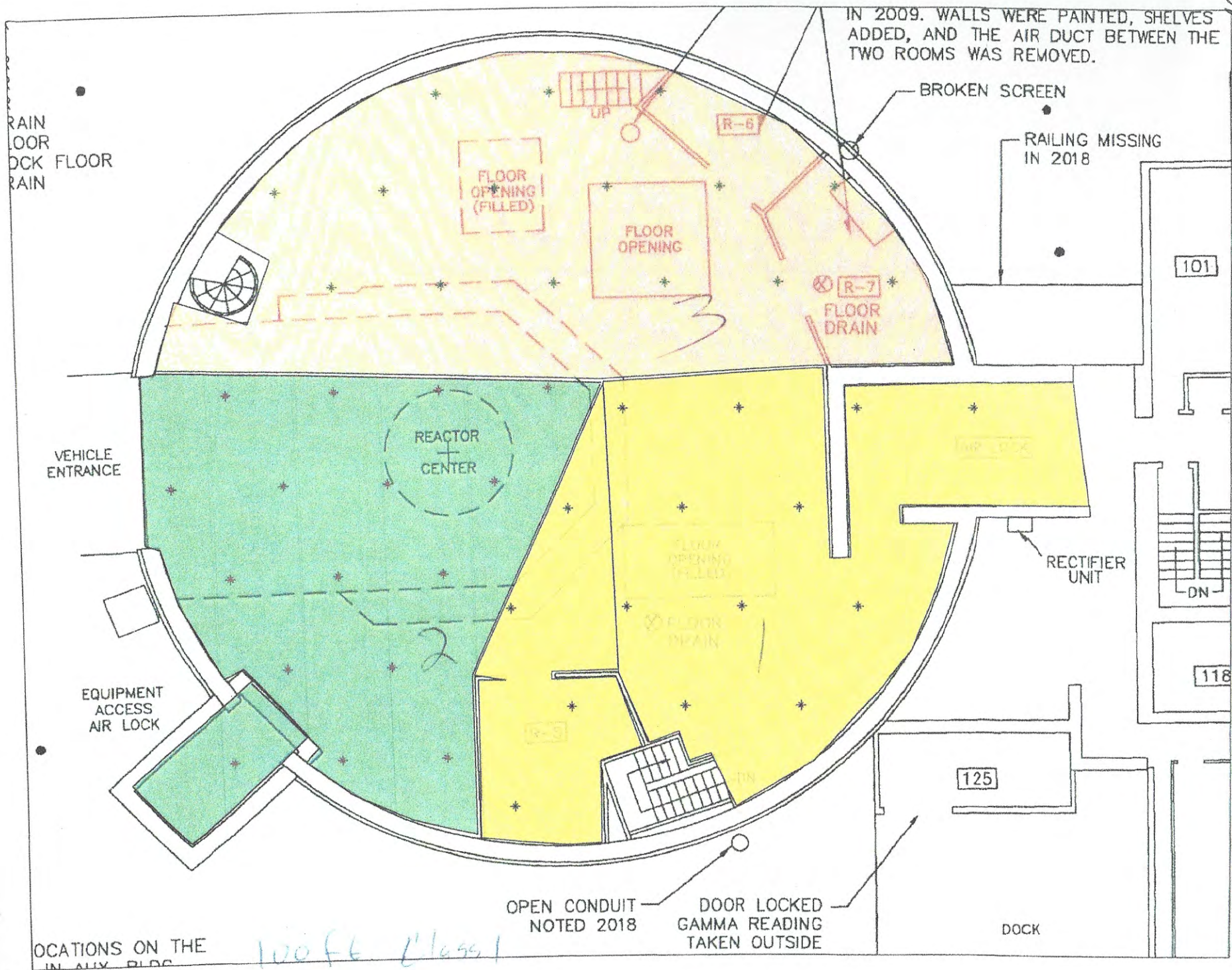
Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	Piqua	Instrument Model:	2929
		Instrument S/N:	121877
	100 W 3 ⁺ meter	Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	66
Background	Background Count #2	0	63
1	See map with Direct Survey	0	65
2		1	55
3		0	13
4		0	67
5		0	78
6		0	67
7		1	55
8		1	72
9		0	47
10		0	79
11		1	64
12		1	64
13		0	77
14		1	38
15		1	58
1	Inside Large duct left	0	72
2	" " " bottom	0	76
3	" " " Right	1	67
Additional Comment:		Critical Values = 82.4 Bq & 4.32	
Analyzed by/date: (name/date)		CWS 6/3 & 6/4/2020	

Dade Moeller
Radiological Survey Report

PG. 1/4 *[Signature]*



PG. 3/4



Dade Moeller

Bench Counter Worksheet

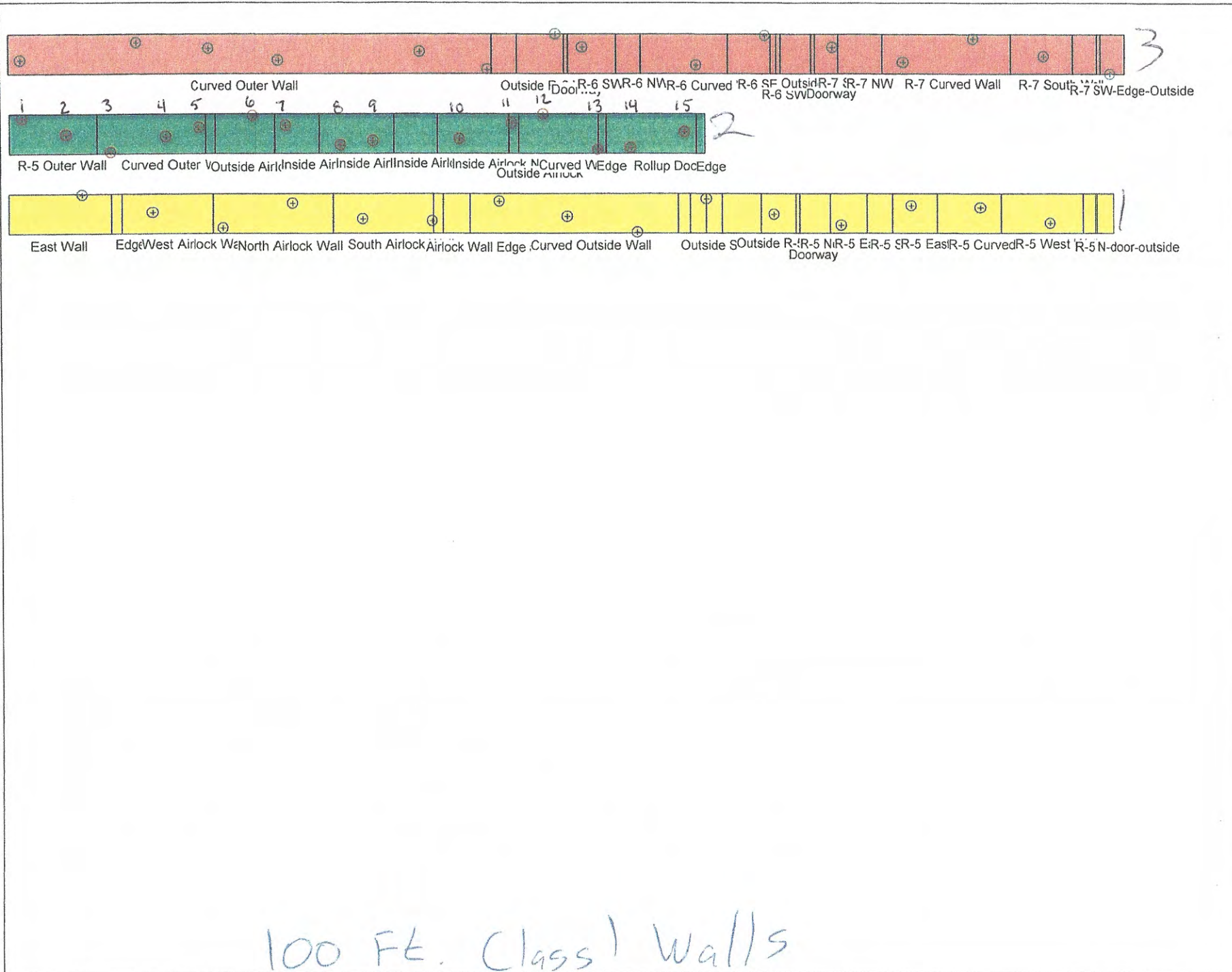
Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	100W-1-1	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	42
Background	Background Count #2	0	55
1	See Attached Map	0	72
2		1	55
3		0	58
4		0	51
5		0	44
6		4	46
7		0	54
8		0	52
9		1	60
10		1	45
11		0	51
12		2	55
13		1	55
14		1	63
15		0	49
Additional Comment:			
Analyzed by/date: (name/date)		C. H. 6/5/2020	

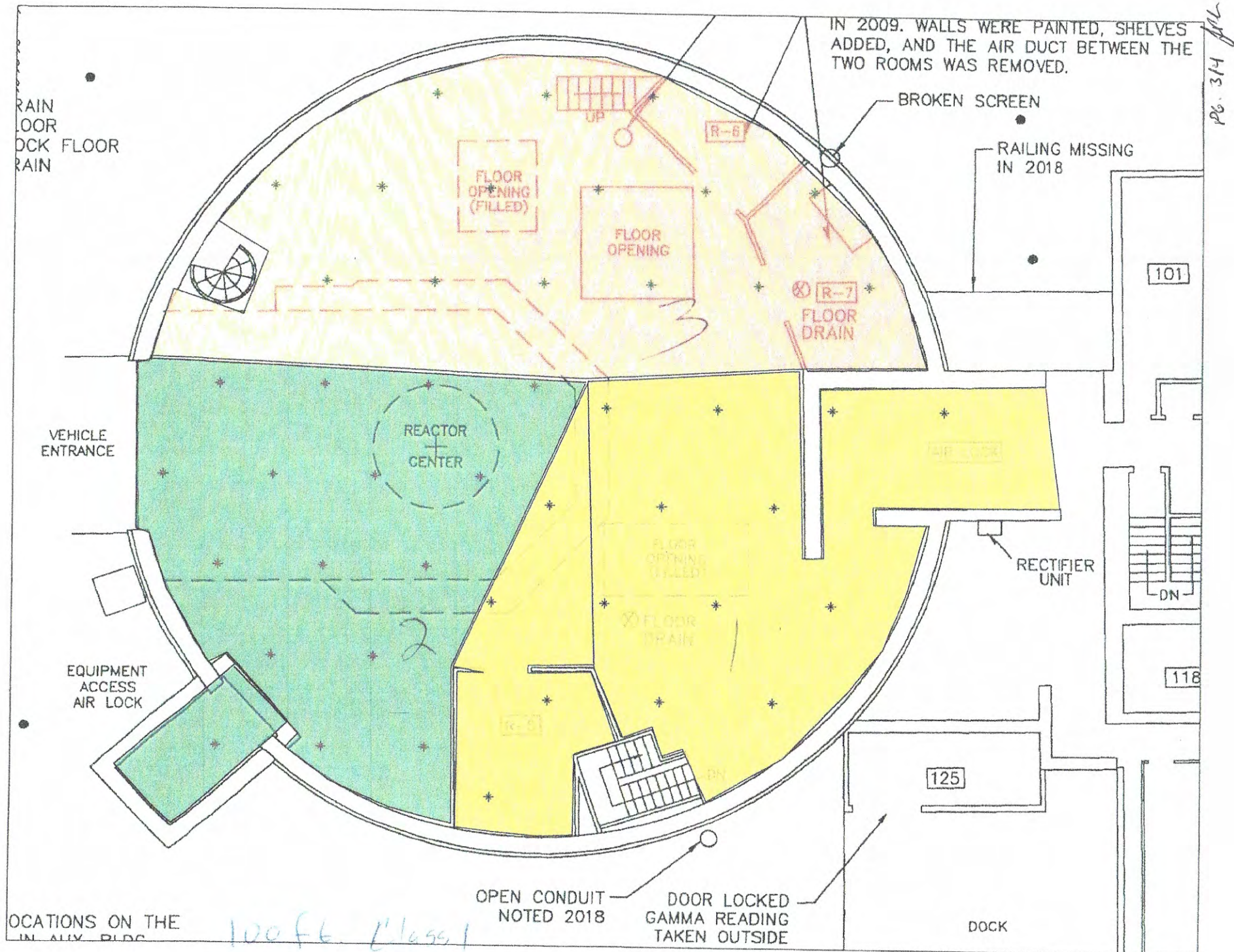
Critical values 4.32 82B

Dade Moeller
Radiological Survey Report

[illegible]



pg. 214 JAL



Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Lucium
Client Address:	100 W-1-2	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

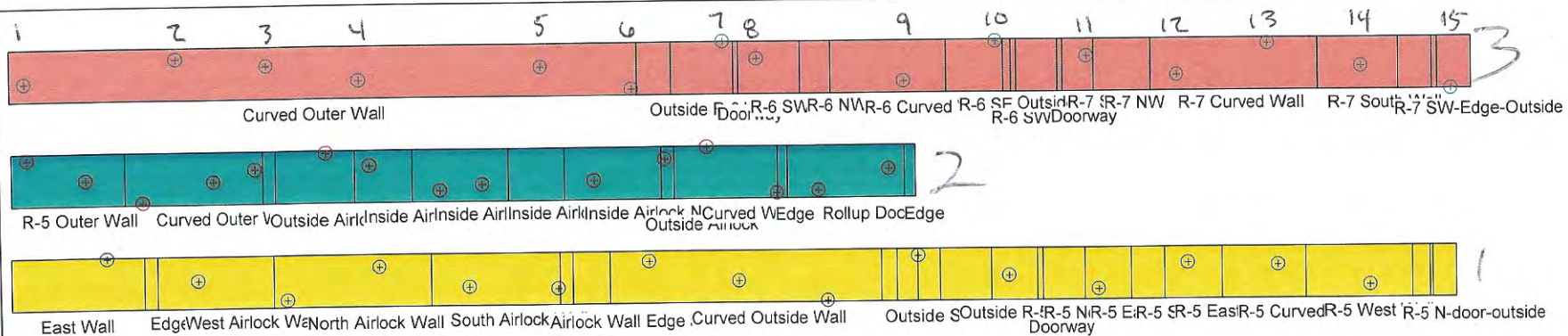
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	57
Background	Background Count #2	0	48
1	See attached map	0	62
2		1	41
3		1	53
4		0	53
5		0	52
6		0	59
7		1	53
8		0	57
9		1	53
10		0	51
11		0	61
12		0	63
13		1	53
14		0	66
15		1	64
Additional Comment:			
Analyzed by/date: (name/date)		C. J. Shaw 6/5/2020	

Critical value 4.3x 82B

Dade Moeller
Radiological Survey Report

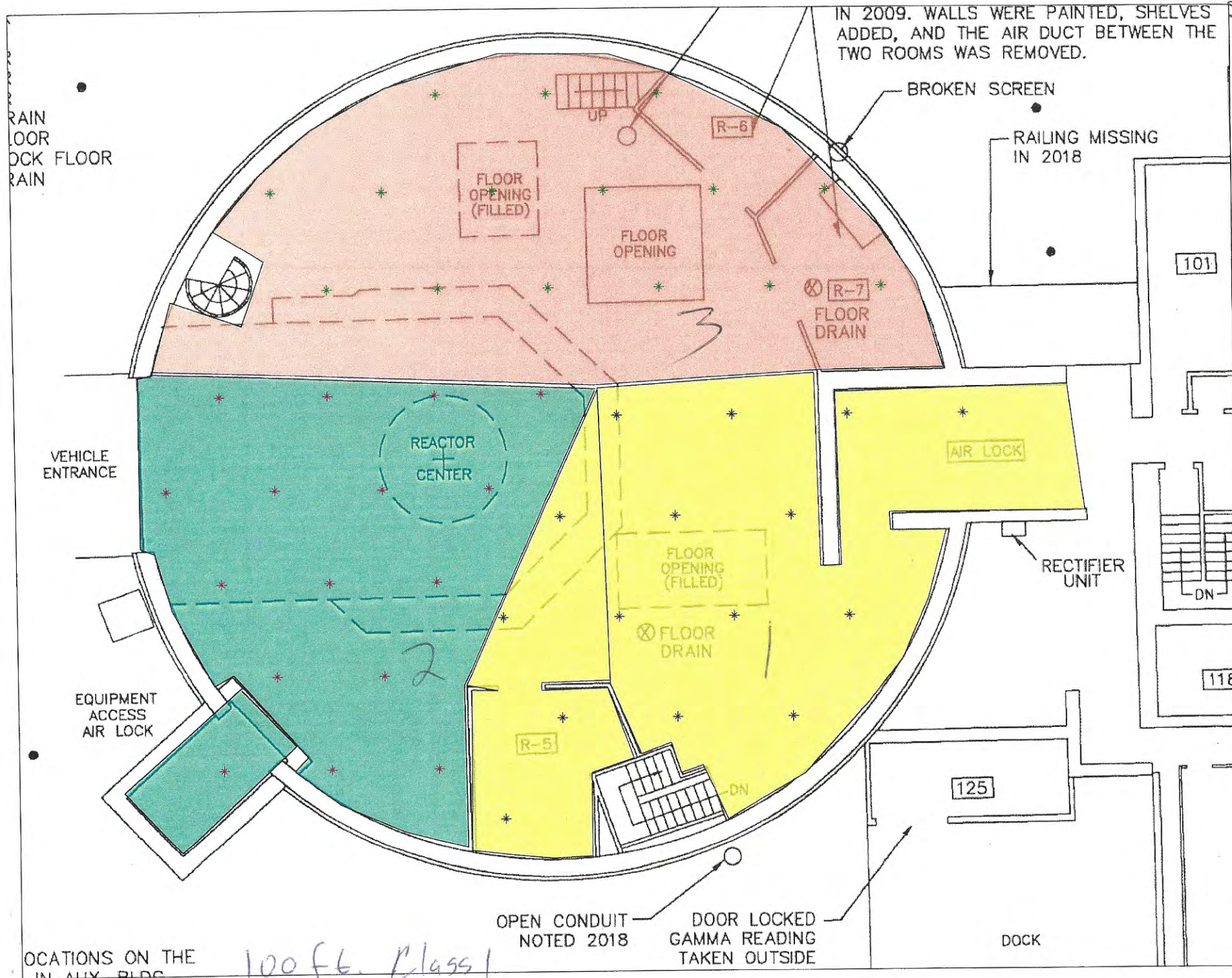
Laboratory Description: 100W-1-3				Date: 6/5/2020					
Purpose of Survey: CSS				Performed By:					
				Print: JEFF GAGNE					
				Sign: <i>[Signature]</i>					
Sketch of Area - SEE ATTACHED PAGES FOR SKETCH - RED ZONE WALLS - SURVEYED 100% OF ACCESSIBLE WALLS USING 2224.				Direct Results cpm/100cm ²					
				Direct #	Beta	Alpha			
				1	166	3			
				2	210	4			
				3	172	4			
				4	180	3			
				5	163	3			
				6	164	4			
				7	181	3			
				8	168	0			
				9	152	2			
				10	173	1			
				11	175	1			
				12	163	1			
				13	174	3			
				14	192	4			
				15	194	1			
				Legend: # - Direct Measurement # - Scan Direct Measurement ⊕ - Smear Location					
Instrumentation				Source Check (pre/post)					
Model #	Serial #	Background	Efficiency	Isotope	Reading	Units			
2224	162850	2α/138B		Tl-230/I-129	248α/334B	CPM			
				POST	362α/356B	CPM			
Comments, including corrective actions if any: N/A									

PG: 1/4 JPL



PG. 2/4 JPT

100 Ft. Class 1 Walls



pg. 3/4 JML

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	100 W-1-3	Instrument Model:	2929
	CSS	Instrument S/N:	121877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

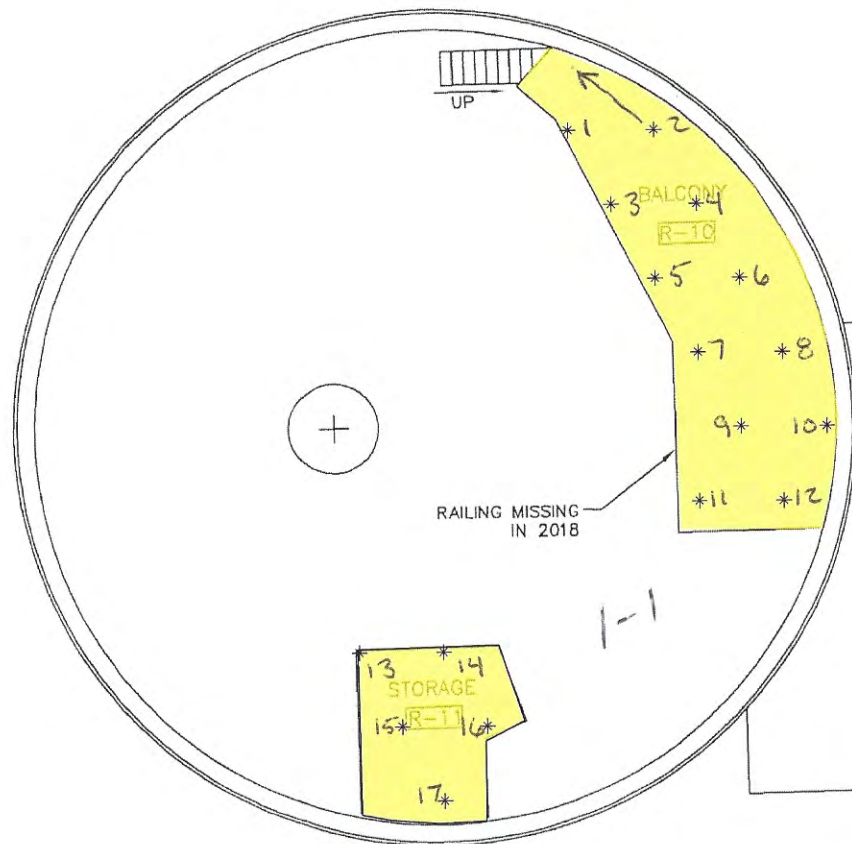
DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	48
Background	Background Count #2	0	58
1	See attached Map	0	56
2		0	63
3		1	57
4		1	68
5		0	54
6		0	48
7		1	55
8		0	49
9		0	43
10		0	39
11		0	45
12		0	59
13		1	58
14		0	63
15		0	55
Additional Comment:		Analyzed by/date: (name/date)	
		C. H. 6/15/2020	

Critical value 4.3α 82B

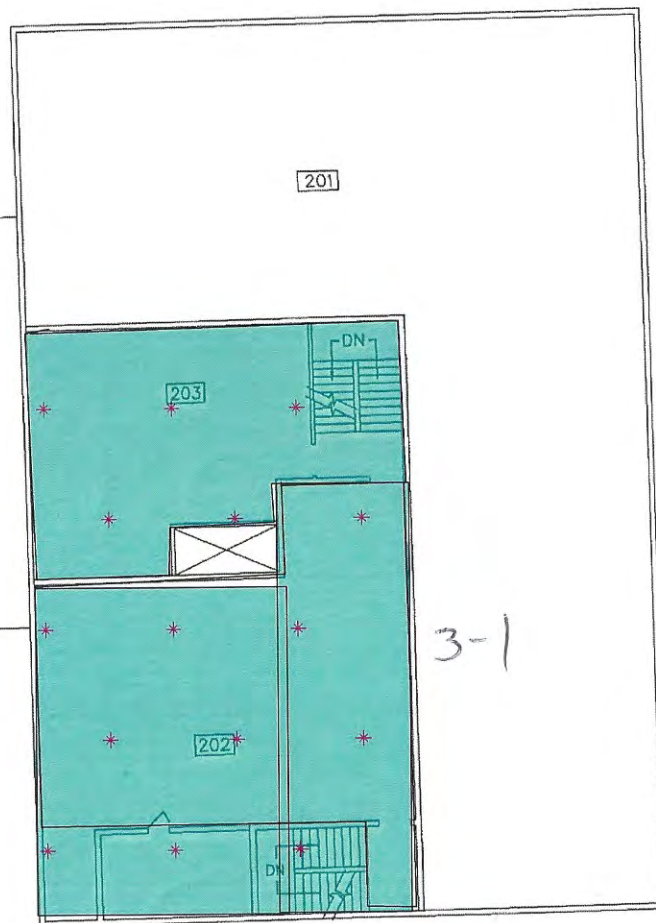
Dade Moeller
Radiological Survey Report

[illegible]

PG. 1/3 JPL



PLAN - 111 FOOT LEVEL

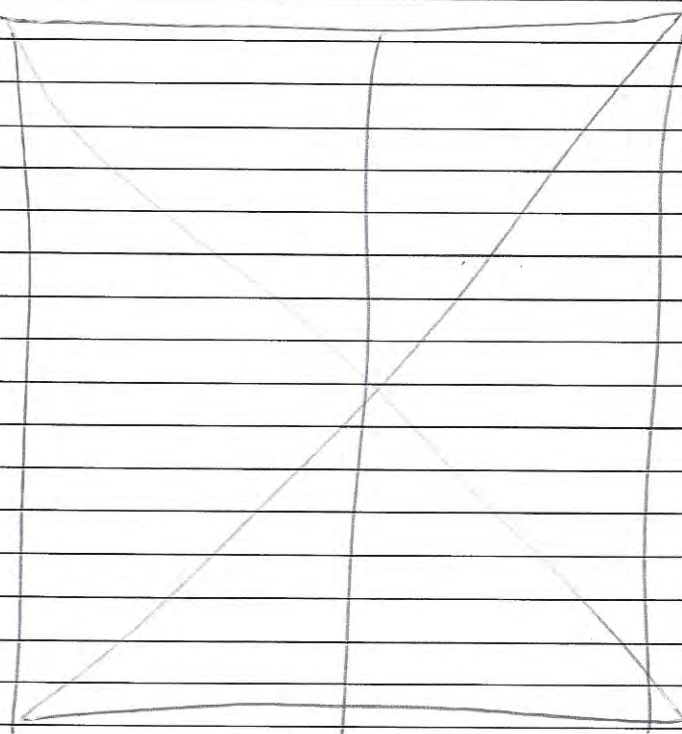


Pl. 2/3 JPL

Class 1 & 3

Bench Counter Worksheet

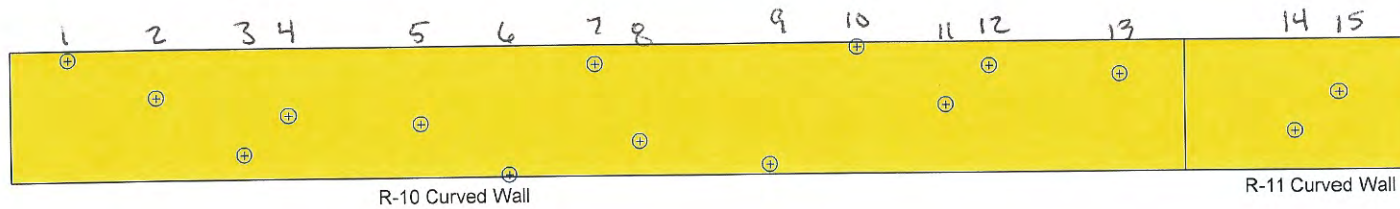
Client Name:	PANF	Instrument Make:	Ludlum
Client Address:	111 E-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	121 877
		Calibration Date:	4/28/2020
		Calibration Due Date:	4/28/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	0	65
Background	Background Count #2	0	62
1		0	53
2		2	65
3		1	58
4		0	65
5		0	50
6		1	51
7		0	63
8		0	48
9		0	59
10		2	66
11		0	50
12		0	64
13		0	45
14		0	43
15		1	55
16		0	58
17		0	56
Additional Comment:			
Analyzed by/date: (name/date)		C. H. 6/8/2020	

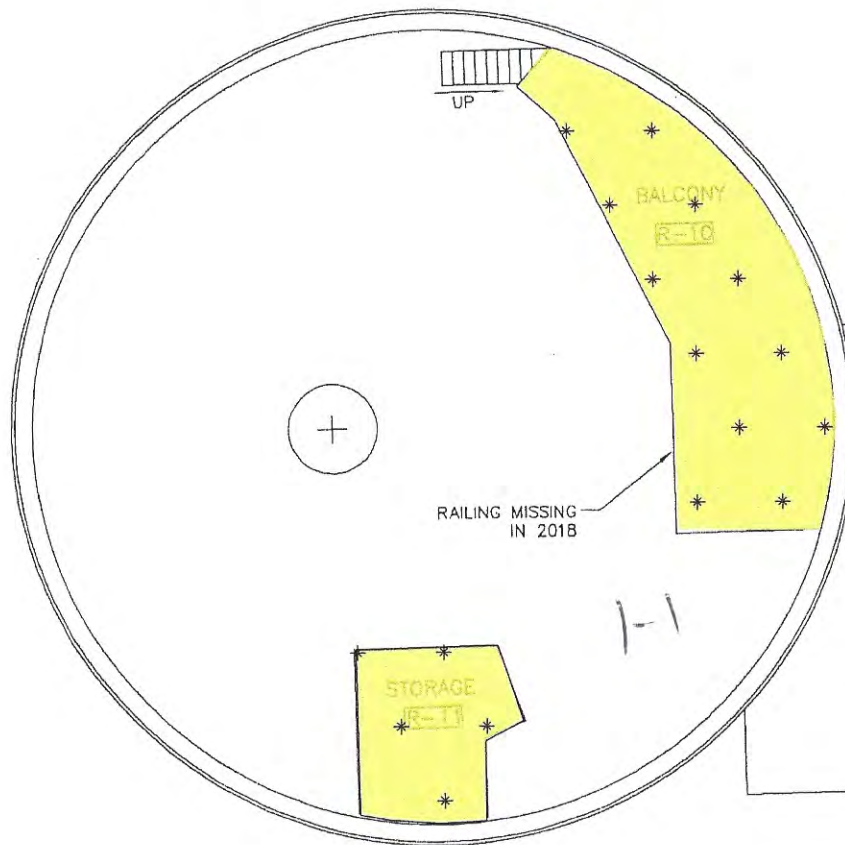
Dade Moeller
Radiological Survey Report

PG. 1/4 JPM

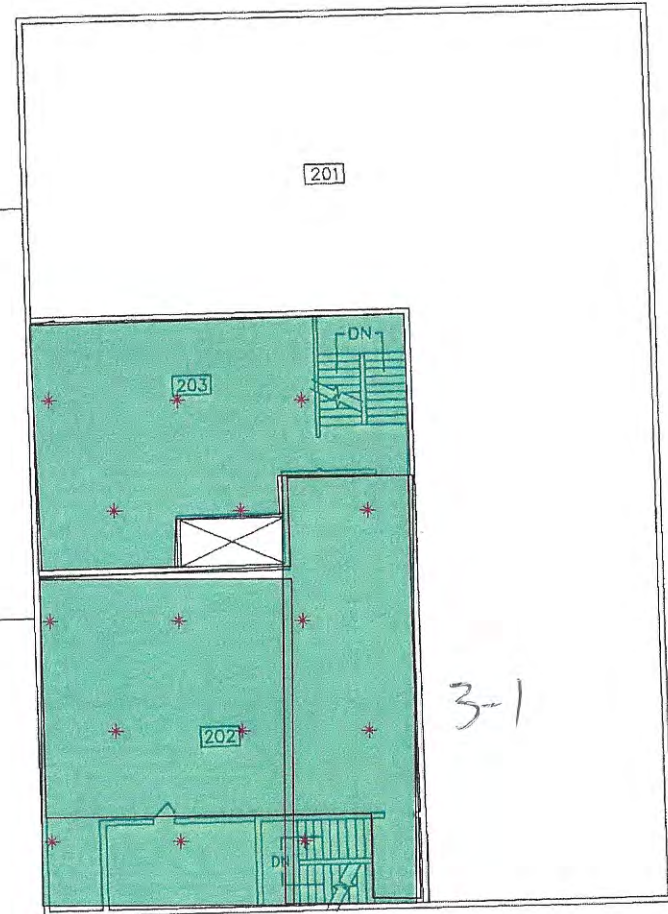
Pb. 2/4 JHL



III level (class) walls



PLAN - 111 FOOT LEVEL



Pl. 3/4 JPL

Class 1 & 3

Bench Counter Worksheet

Client Name:	PNPF	Instrument Make:	Ludlum
Client Address:	111 W-1-1 CSS	Instrument Model:	2929
		Instrument S/N:	118411
		Calibration Date:	4/22/2020
		Calibration Due Date:	4/22/2021
Phone Number:		Analysis Number:	

DATA FOR 1 -MINUTE COUNTS			
Sample	Description	Alpha	Beta
Background	Background Count #1	1	43
Background	Background Count #2	0	45
1	See attached map	1	40
2		0	34
3		0	41
4		0	38
5		0	47
6		1	44
7		1	42
8		1	48
9		0	42
10		0	44
11		1	52
12		0	48
13		2	44
14		0	42
15		0	57
Additional Comment:			
Analyzed by/date: (name/date)		C. [Signature] 6/8/2020	