

Radiological Survey in Area Around Location 10

APPENDIX A RADIOLOGICAL SURVEY REPORT

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| | | | | | | | |
|----------------------------|---|------------------------|--------------|-------------------------|----------------------|---------------------|--------------------------------------|
| Purpose of Survey : | Characterization Survey of Process Building: Floor Scans for Bldg 254-33 (Ceramic) / South Half | | | | | Log Number | 0907 CH 090915 |
| Surveyed by: | Stephen Bange <i>Step Bange</i> 9-17-09 | | | | | Reviewed By: | Charles Finkenbine <i>CF</i> 9/17/09 |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| | | | | | | Date: | 9/15/2009 |
| | | | | | | Time: | 15:00 |
| | | | | | | Smear Area | N/A |
| | | | | | | Batch # | N/A |
| | | | | | | RWP: | RP-09-S002 Rev. 2 |
| | | | | | | Misc. | N/A |

Remarks: Conducted scans of floor by walk-over with detector 2 -4" above surface. See attached map for readings and results in Gross CPM.

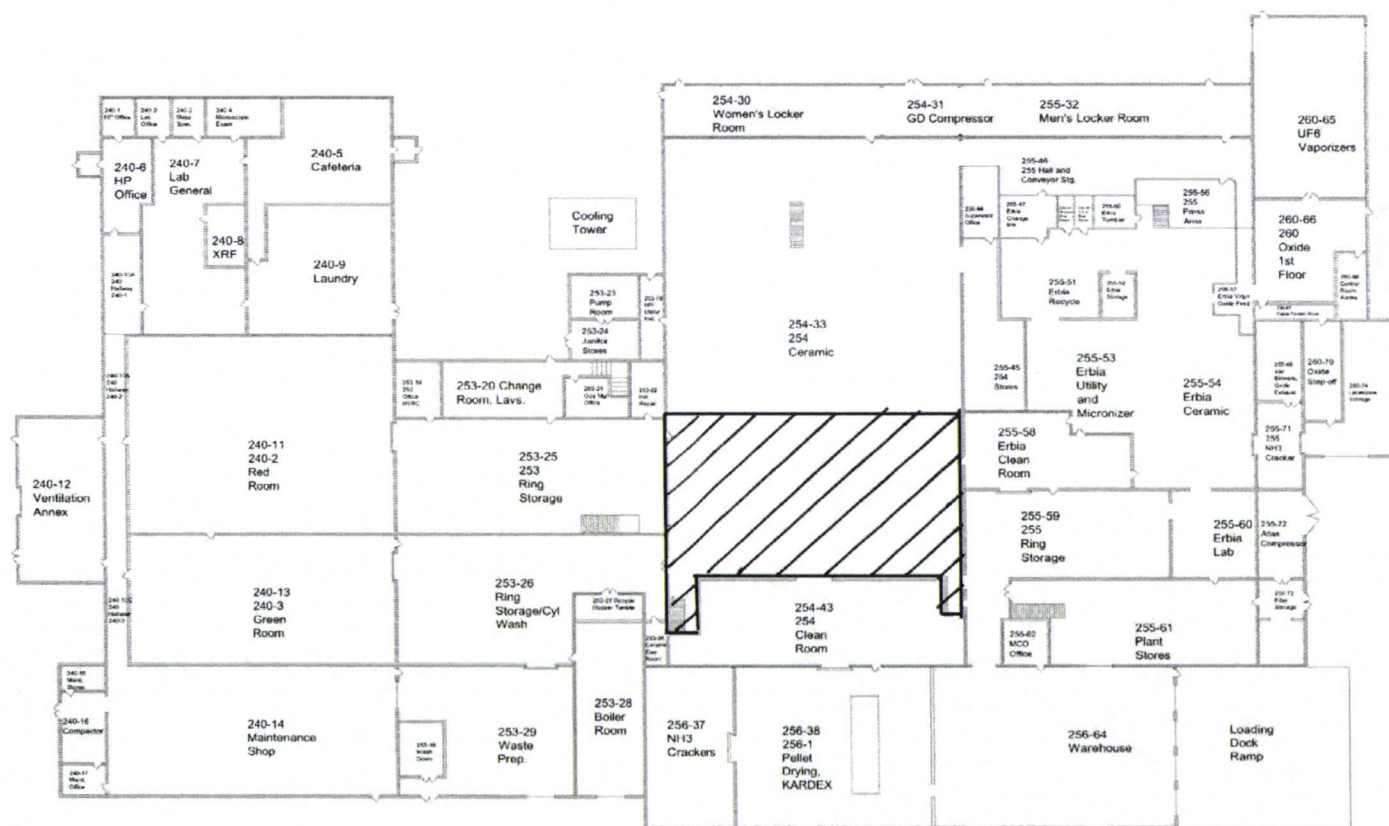
| # | Location | Gamma Dose Rate | Backgrounds | | Comments |
|----|----------|-------------------------|--------------------|--------------------|----------|
| | | Contact (μ Rem/hr) | 30 cm μ Rem/hr | 60 cm μ Rem/hr | |
| 1 | N/A | N/A | N/A | N/A | N/A |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |

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RADIOLOGICAL SURVEY REPORT

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| | | | | | | | |
|----------------------------|---|------------------------|--------------|-------------------------|----------------------|-------------------------------|--------------------------------------|
| Purpose of Survey : | Characterization Survey of Process Building: Floor Scans for Bldg 254-33 (Ceramic) / South Half | | | | | Log Number | 0907 CH 090915 |
| Surveyed by: | Stephen Bange <i>Step Bange</i> 9-17-09 | | | | | Reviewed By: | Charles Finkenbine <i>CF</i> 9/17/09 |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | Date: 9/15/2009 | |
| N/A | N/A | N/A | N/A | N/A | N/A | Time: 15:00 | |
| N/A | N/A | N/A | N/A | N/A | N/A | Smear Area N/A | |
| N/A | N/A | N/A | N/A | N/A | N/A | Batch # N/A | |
| N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-09-S002 Rev. 2 | |
| N/A | N/A | N/A | N/A | N/A | N/A | Misc. N/A | |

Remarks: Conducted scans of floor by walk-over with detector 2 -4" above surface. See attached map for readings and results in Gross CPM.



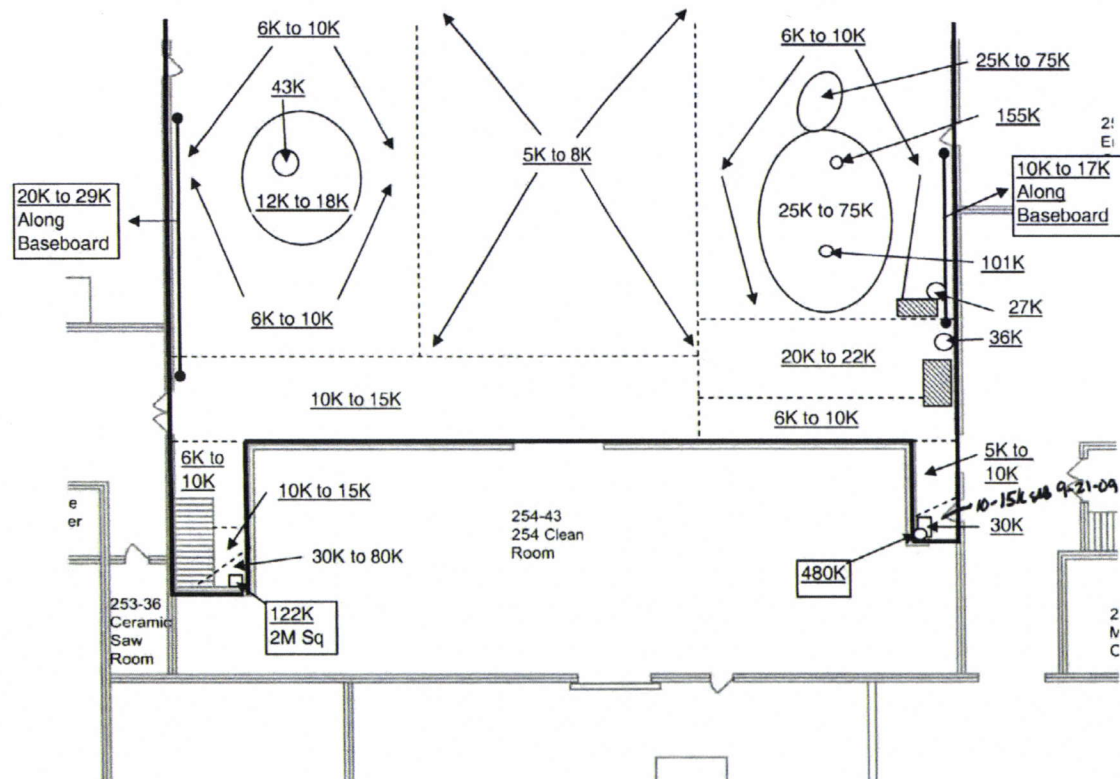
Radiological Survey in Area Around Location 10

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| | | | | | | | |
|---------------------------|---|------------------------|--------------|-------------------------|----------------------|---|-----------------------------------|
| Purpose of Survey: | Characterization Survey of Process Building: Floor Scans for Bldg 254-33 (Ceramic) / South Half | | | | | Log Number | 0907 CH 090915 |
| Surveyed by: | Stephen Bange <i>Step Bange 9-17-09</i> | | | | | Reviewed By: | <i>Charles Finkenbine 9/17/09</i> |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | Date: 9/15/2009 Time: 15:00 Smear Area: N/A Batch # N/A RWP: RP-09-S002 Rev. 2 Misc. N/A | |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |

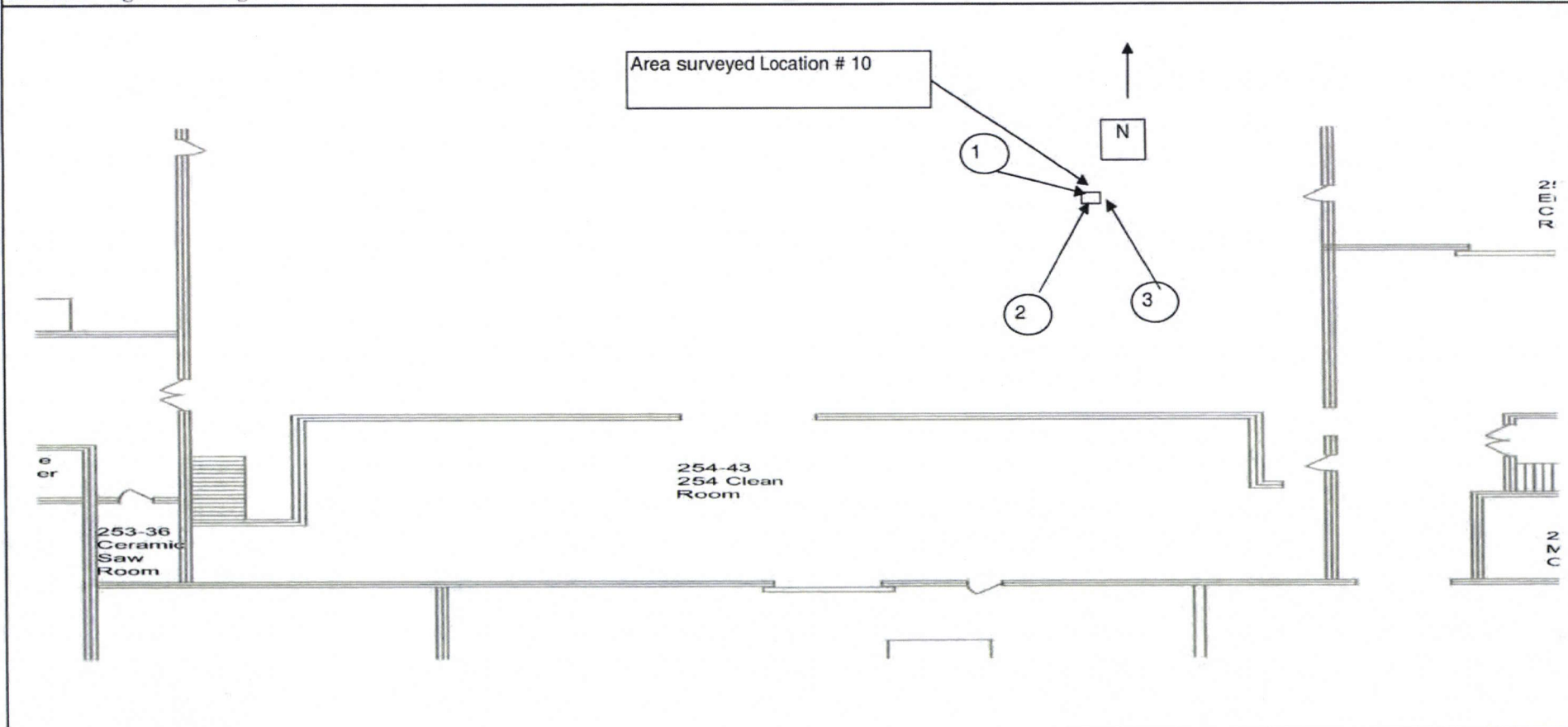
Remarks: Conducted scans of floor by walk-over with detector 2 -4" above surface. See attached map for readings and results in Gross CPM.



Radiological Survey Report (Map)

| | | | | | | | | | | |
|--|----------------------|------------------------|------------------------------------|------------------------|-------------------------|---------------------------|-----------------------|------------------------|-----------------------|---------------------------------|
| Purpose of Survey: Pre job survey of core drilling and sampling in Process Bldg. 254-33 location # 10 | | | | | | | Log Number: | | 0441 S 100415 | |
| Surveyed By: Thomas Yardy <i>Thom Yardy 4-16-10</i> | | | | Reviewed By: | | <i>Charles Finkenbine</i> | | | <i>WJH 4-19-10</i> | |
| Instrument | Serial Number | Calibration Due | Probe Area (cm²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 04/15/10 |
| Tennelec LB 1 GFPC | 68819 | 7/15/10 | N/A | 0.2 | 25.8% | 17.9 | 1.6 | 31.0% | 23 | Time: 16:00 |
| Lud 2221 44-10 E | 228822 | 4/20/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm2 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10601 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/16/10 |

A 2 X 2 gamma survey was preformed ~ 3' X 3' area around location highest reading found 229930 cpm with BKG of 12963 cpm . Core sample was taken at
Remarks: highest reading found.



Radiological Survey at Location 10

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| | | | | | | | |
|----------------------------|---|------------------------|--------------|-------------------------|----------------------|---|--|
| Purpose of Survey : | Characterization of Process Building: Floor Scans for Bldg 255-59 (Ring Storage) & 255-60 (Erbia Lab) | | | | | Log Number | 0981 CH 090917 |
| Surveyed by: | Stephen Bange <i>Handwritten: H. Bange 7-21-09</i> | | | | | Reviewed By: | <i>Handwritten: Charles Finkenbine 9/21/09</i> |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | Date: 9/17/2009 Time: 15:30 Smear Area: N/A Batch # N/A RWP: RP-09-S002 Rev. 3 Misc. N/A | |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |

Remarks: Conducted Scans of Floor with detector 2 - 4" above surface. See Attached Map for readings and results in Gross CPM.

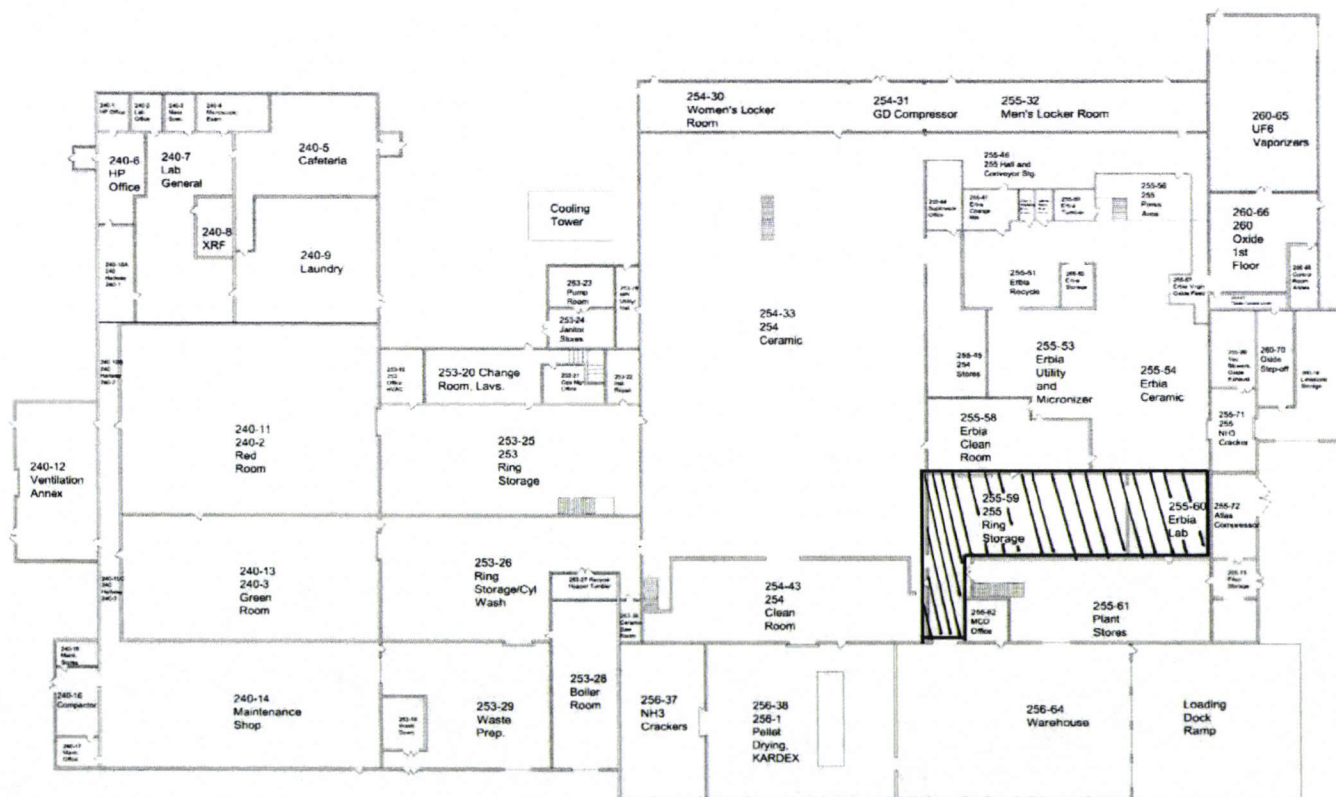
| # | Location | Gamma Dose Rate | Backgrounds | | Comments |
|----|----------|-------------------|---------------|---------------|----------|
| | | Contact (µRem/hr) | 30 cm µRem/hr | 60 cm µRem/hr | |
| 1 | N/A | N/A | N/A | N/A | N/A |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |

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| | | | | | | | | |
|----------------------------|---|------------------------|--------------|-------------------------|----------------------|---------------------|--|-------------------|
| Purpose of Survey : | Characterization of Process Building: Floor Scans for Bldg 255-59 (Ring Storage) & 255-60 (Erbia Lab) | | | | | Log Number | 0981 CH 090917 | |
| Surveyed by: | Stephen Bange 9-21-09 <i>[Signature]</i> | | | | | Reviewed By: | Charles Finkenbue <i>[Signature]</i> 9/21/09 | |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | Date: | 9/17/2009 |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | Time: | 15:30 |
| N/A | N/A | N/A | N/A | N/A | N/A | | Smear Area | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | | Batch # | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | | RWP: | RP-09-S002 Rev. 3 |
| N/A | N/A | N/A | N/A | N/A | N/A | | Misc. | N/A |

Remarks: Conducted Scans of Floor with detector 2 - 4" above surface. See Attached Map for readings and results in Gross CPM.



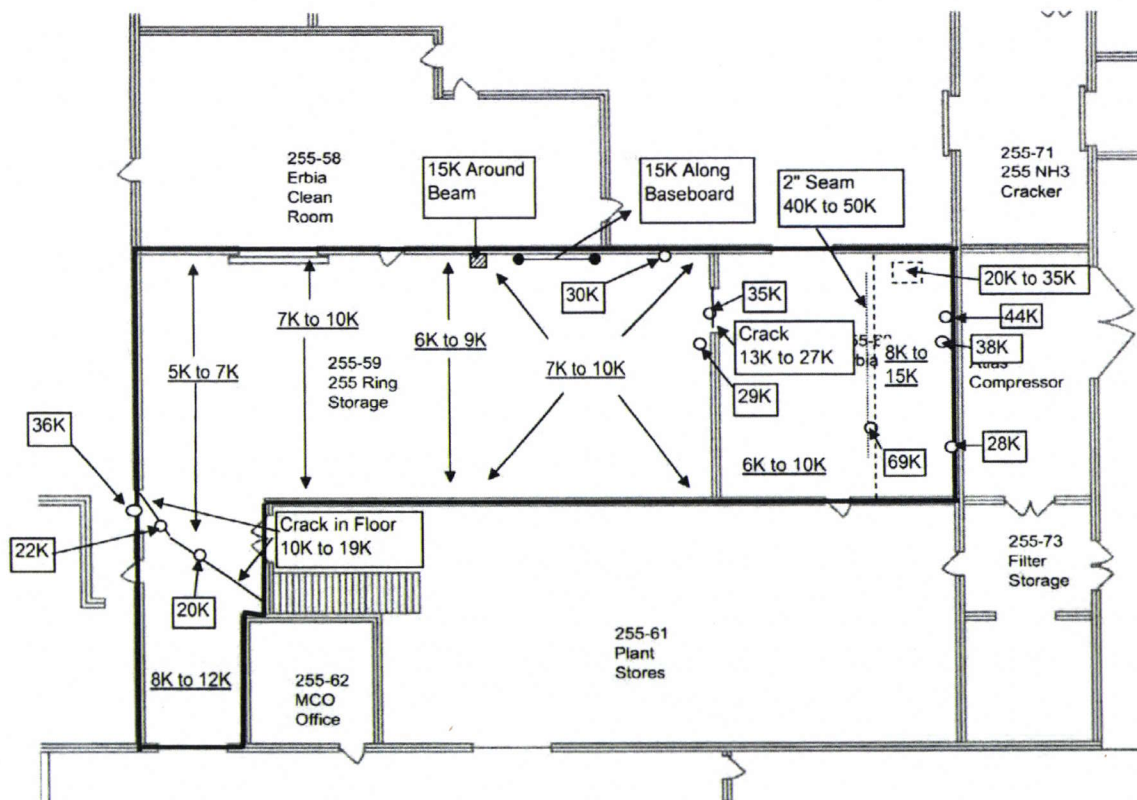
Radiological Survey in Area Around Location 13

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| | | | | | | | |
|----------------------------|----------------------|---|--------------|-------------------------|----------------------|---|-------------------------------|
| Purpose of Survey : | | Characterization of Process Building: Floor Scans for Bldg 255-59 (Ring Storage) & 255-60 (Erbia Lab) | | | | Log Number | 0981 CH 090917 |
| Surveyed by: | | Stephen Bange <i>Step Bange</i> 9-21-09 | | | | Reviewed By: <i>Charles Finkentine</i> 9/21/09 | |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | |
| Lud - 2221 | 234985 | 12/11/2009 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| | | | | | | | Date: 9/17/2009 |
| | | | | | | | Time: 15:30 |
| | | | | | | | Smear Area N/A |
| | | | | | | | Batch # N/A |
| | | | | | | | RWP: RP-09-S002 Rev. 3 |
| | | | | | | | Misc. N/A |

Remarks: Conducted Scans of Floor with detector 2 - 4" above surface. See Attached Map for readings and results in Gross CPM.



| | | | | | | | | | | | |
|-------------------------------|----------------------|--|------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------|------------------------|-----------------------|--------------------|-----------------------|
| Purpose of Survey: | | Pre job survey of core drilling and sampling in Process Bldg. 255-59 location # 13 | | | | | | Log Number: | | 0456 S 100416 | |
| Surveyed By: | | Thomas Yardy <i>Tha Yardy 4-19-10</i> | | | Reviewed By: | | <i>Charles Finkenbine 4-20-10</i> | | | | |
| Instrument & Probe | Serial Number | Calibration Due | Probe Area (cm²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: | 4/16/2010 |
| Tennelec LB 1 GFPC | 68819 | 7/15/10 | N/A | 0.6 | 25.8% | 21.9 | 2.1 | 31.0% | 25 | Time: | 16:15:00 PM |
| Lud 2221 44-10 E | 228822 | 4/20/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: | ~ 100 cm ² |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: | 10628 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: | RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: | Documented 4/19/10 |

Remarks: A 2 X 2 gamma survey was performed ~ 3' X 3' area around location highest reading found 43074 gcpm with BKG of 7300 cpm . Core sample was taken at highest reading found.

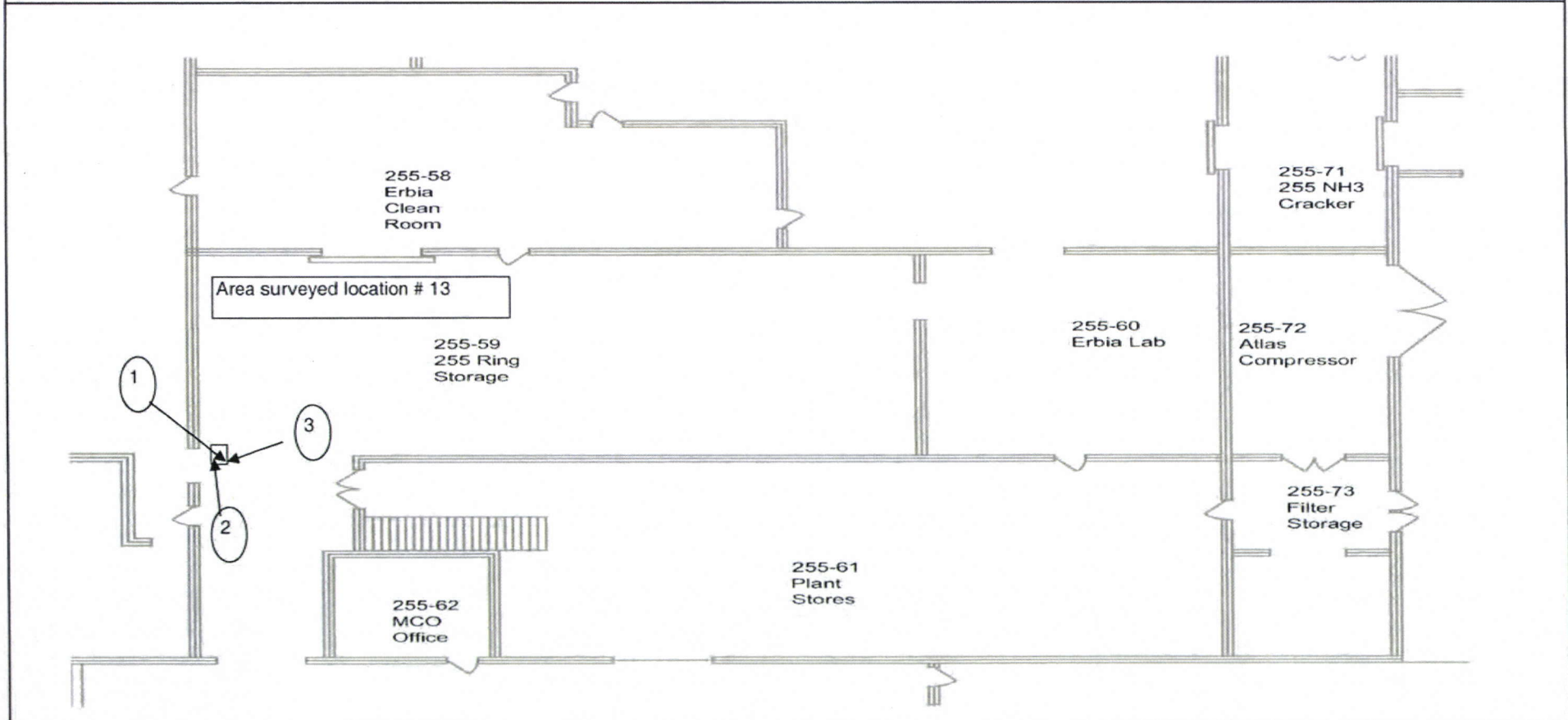
[illegible]

Appendix A

Radiological Survey Report (Map)

| | | | | | | | | | | |
|--|----------------------|------------------------|--|------------------------|-------------------------|------------------------|-----------------------|------------------------|-----------------------|---------------------------------|
| Purpose of Survey: Pre job survey of core drilling and sampling in Process Bldg. 255-59 location # 13 | | | | | | | Log Number: | | 0456 S 100416 | |
| Surveyed By: Thomas Yardy <i>Thm Y 4-19-10</i> | | | Reviewed By: <i>Charles Kinkerbine CK 4-20-10</i> | | | | | | | |
| Instrument | Serial Number | Calibration Due | Probe Area (cm²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 04/16/10 |
| Tennelec LB 1 GFPC | 68819 | 7/15/10 | N/A | 0.6 | 25.8% | 21.9 | 2.1 | 31.0% | 25 | Time: 16:15:00 PM |
| Lud 2221 44-10 E | 228822 | 4/20/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm2 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10628 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/19/10 |

A 2 X 2 gamma survey was preformed ~ 3' X 3' area around location highest reading found 43074 gcpm with BKG of 7300 cpm . Core sample was taken at
Remarks: highest reading found.



Radiological Survey in Area Around Location 17 and 18

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| | | | | | | | |
|----------------------------|--|------------------------|--------------|-------------------------|----------------------|---------------------|-----------------------------------|
| Purpose of Survey : | Survey of Process Building: Floor Scans for for Bldg 255-53 Erbia Utility and Micronizer | | | | | Log Number | 0963 CH 090918 |
| Surveyed by: | Dennis Lumpkins/Tim Harris <i>Dennis Lumpkins 9/18/09</i> | | | | | Reviewed By: | <i>Charles Finkenbine 9/21/09</i> |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | |
| Lud2221 | 228822 | 2/4/2010 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| | | | | | | Date: | 9/18/2009 |
| | | | | | | Time: | 7:30 |
| | | | | | | Smear Area | N/A |
| | | | | | | Batch # | N/A |
| | | | | | | RWP: | RP-09-S002 Rev. 3 |
| | | | | | | Misc. | N/A |

Remarks: Conducted Scans on Floor 2" - 4" above Surface. See Attached Map for locations and results.

| # | Location | Gamma Dose Rate | Backgrounds | | Comments |
|----|----------|-------------------|---------------|---------------|----------|
| | | Contact (µRem/hr) | 30 cm µRem/hr | 60 cm µRem/hr | |
| 1 | N/A | N/A | N/A | N/A | N/A |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |

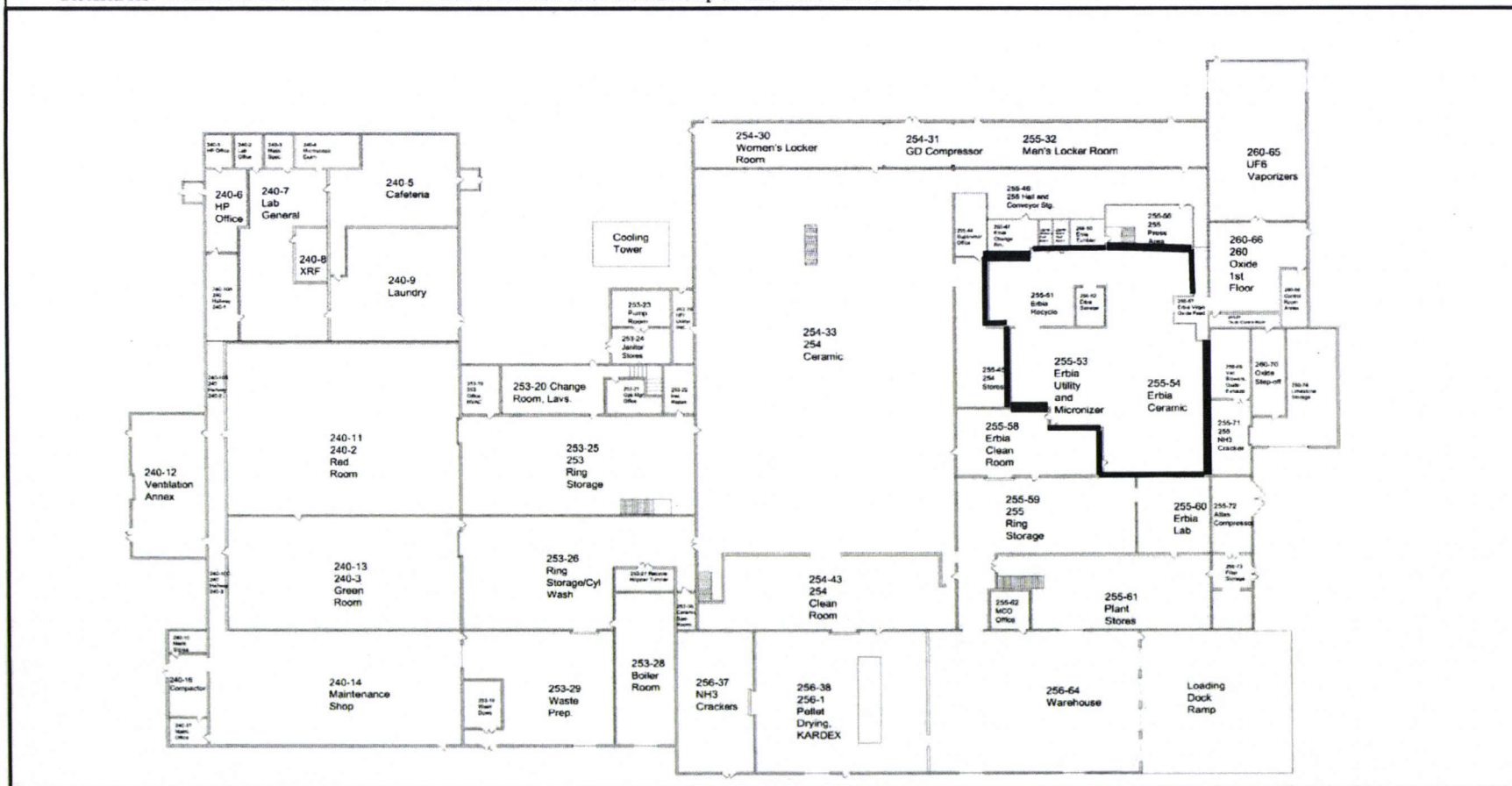
Radiological Survey in Area Around Location 17 and 18

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| | | | | | | | |
|----------------------------|--|------------------------|--------------|-------------------------|----------------------|---|----------------------------------|
| Purpose of Survey : | Survey of Process Building: Floor Scans for for Bldg 255-53 Erbia Utility and Micronizer | | | | | Log Number | 0963 CH 090918 |
| Surveyed by: | Dennis Lumpkins/Tim Harris <i>Dennis Lumpkins/Tim Harris 9-18-09</i> | | | | | Reviewed By: | <i>Charles Finkedine 9/21/09</i> |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | Date: 9/18/2009 Time: 7:30 Smear Area N/A Batch # N/A RWP: RP-09-S002 Rev. 3 Misc. N/A | |
| Lud2221 | 228822 | 2/4/2010 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |

Remarks: Conducted Scans on Floor 2" - 4" above Surface. See Attached Map for locations and results.

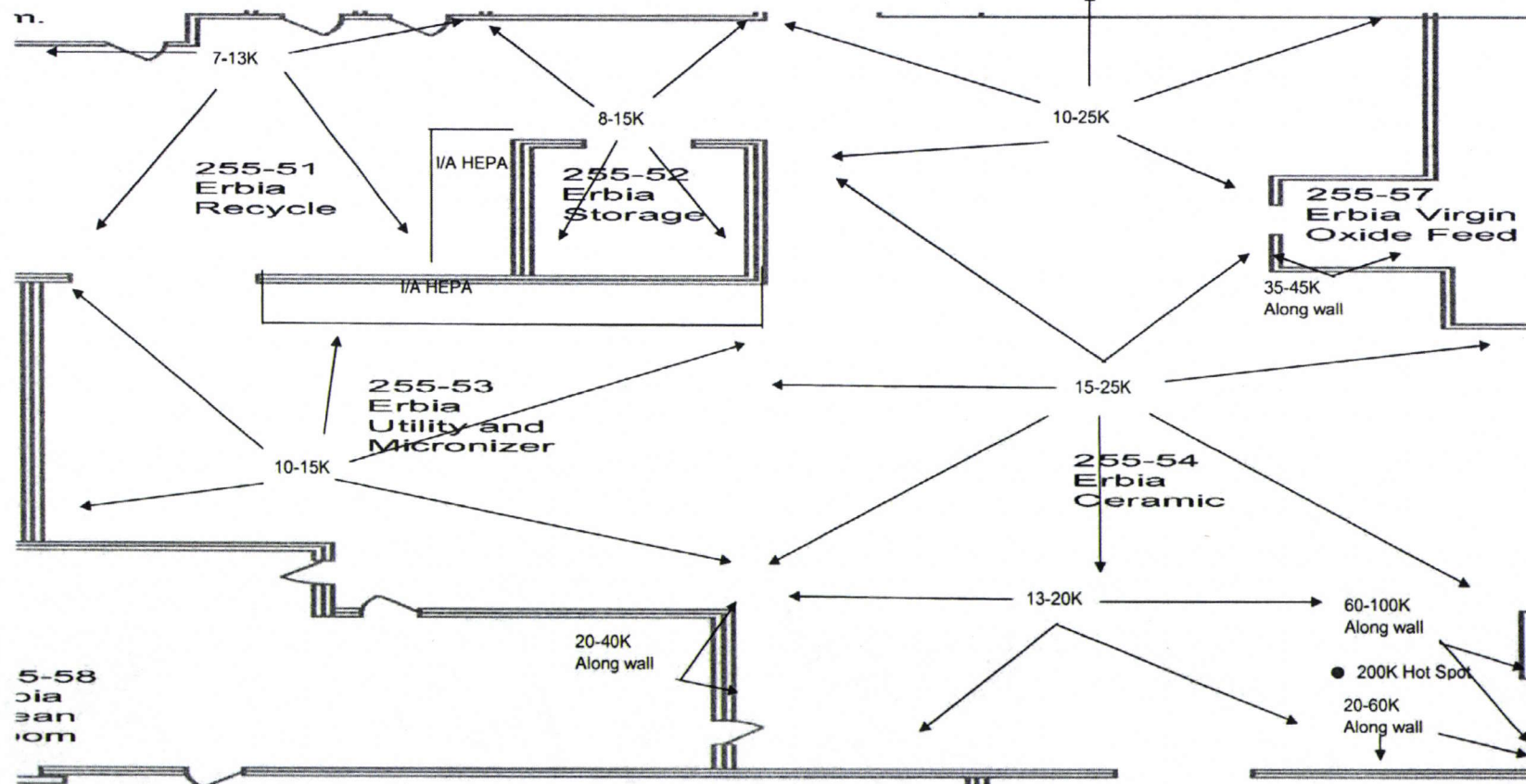


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RADIOLOGICAL SURVEY REPORT

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| | | | | | | | |
|----------------------------|--|------------------------|--------------|-------------------------|----------------------|---------------------|---------------------------------|
| Purpose of Survey : | Survey of Process Building: Floor Scans for for Bldg 255-53 Erbia Utility and Micronizer | | | | | Log Number | 0963 CH 090918 |
| Surveyed by: | Dennis Lumpkins/Tim Harris <i>9/18/09</i> | | | | | Reviewed By: | <i>Charles Finkbine 9/21/09</i> |
| Instrument | Serial Number | Calibration Due | Probe | Sample Locations | Item Material | | |
| Lud2221 | 228822 | 2/4/2010 | 44-10 | Floor | Concrete | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| N/A | N/A | N/A | N/A | N/A | N/A | | |
| | | | | | | Date: | 9/18/2009 |
| | | | | | | Time: | 7:30 |
| | | | | | | Smear Area | N/A |
| | | | | | | Batch # | N/A |
| | | | | | | RWP: | RP-09-S002 Rev. 3 |
| | | | | | | Misc. | N/A |

Remarks: Conducted Scans on Floor 2" - 4" above Surface. See Attached Map for locations and results.



Appendix A

Radiological Survey Report

| | | | | | | | | | | |
|-------------------------------|--|------------------------|------------------------------------|---|-------------------------|------------------------|-----------------------|----------------------------------|-----------------------|--|
| Purpose of Survey: | Pre job survey of core drilling and sampling in Process Bldg. 255-54 location # 17 | | | | | | | Log Number: 0470 S 100419 | | |
| Surveyed By: | Thomas Yardy <i>Thm/Y 4-20-10</i> | | | Reviewed By: <i>Charles Finkbeiner CFN 4-21-10</i> | | | | | | |
| Instrument & Probe | Serial Number | Calibration Due | Probe Area (cm²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 4/19/2010 |
| Tennelec LB 1 GFPC | 68819 | 7/15/10 | N/A | 0.5 | 25.8% | 20.4 | 1.7 | 31.0% | 24 | Time: 16:35 |
| Lud 2221 44-10 E | 228822 | 4/20/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm ² |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10662 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/20/10 |

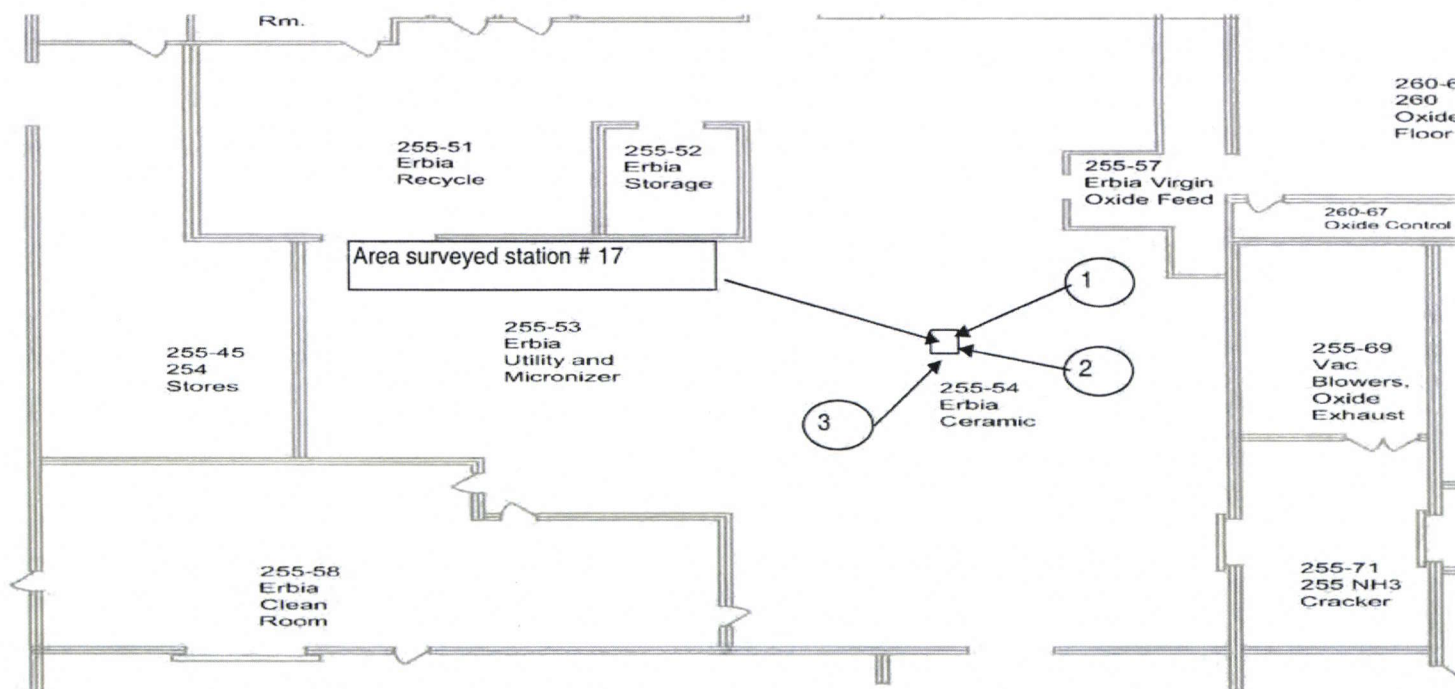
Remarks: A 2 X 2 gamma survey was preformed ~ 3' X 3' area around location highest reading found 40886 gcpm with BKG of 13431 cpm . Core sample was taken at highest reading found.

| # | Description | Removable Alpha | | Removable Beta | | Total Alpha | | Total Beta | | βγ Dose Rate | | Limit Exceeded |
|-----|------------------|-----------------|--------------------------|----------------|--------------------------|-------------|--------------------------|------------|--------------------------|---------------|-----------------|----------------|
| | | Net CPM | DPM / 100cm ² | Net CPM | DPM / 100cm ² | Gross CPM | DPM / 100cm ² | Gross CPM | DPM / 100cm ² | Contact uR/hr | Gen. Area uR/hr | |
| 1 | See attached map | 2.5 | <MDA | 6.5 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2 | See attached map | 1.5 | <MDA | 3.8 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3 | See attached map | 0.5 | <MDA | 4.1 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Radiological Survey Report (Map)

| | | | | | | | | | | |
|--|----------------------|------------------------|--|------------------------|-------------------------|------------------------|-----------------------|------------------------|-----------------------|---------------------------------|
| Purpose of Survey: Pre job survey of core drilling and sampling in Process Bldg. 255-54 location # 17 | | | | | | | Log Number: | | 0470 S 100419 | |
| Surveyed By: Thomas Yardy <i>Tom Yardy</i> 4-20-10 | | | Reviewed By: Charles Finkenbine <i>Charles Finkenbine</i> 4-21-10 | | | | | | | |
| Instrument | Serial Number | Calibration Due | Probe Area (cm²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 04/19/10 |
| Tennelec LB 1 GFPC | 68819 | 7/15/10 | N/A | 0.5 | 25.8% | 20.4 | 1.7 | 31.0% | 24 | Time: 16:35 |
| Lud 2221 44-10 E | 228822 | 4/20/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm2 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10662 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/20/10 |

Remarks: A 2 X 2 gamma survey was performed ~ 3' X 3' area around location highest reading found 40886 gcpm with BKG of 13431 cpm . Core sample was taken at highest reading found.



Appendix A

Radiological Survey Report

| | | | | | | | | | | | | | | | |
|--------------------|--|---------------|-----------------|-------------------------------|-----------------|------------------|---|----------------|-----------------|----------------|-----------------------------------|--------------------|--|--|--|
| Purpose of Survey: | | | | | | | Pre job survey of core drilling and sampling in Process Bldg. 255-54/255-75 location # 18 | | | Log Number: | | 0473 S 100420 | | | |
| Surveyed By: | | | | Thomas Yardy | | | | Reviewed By: | | | | Charles Finkenbine | | | |
| Instrument & Probe | | Serial Number | Calibration Due | Probe Area (cm ²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 4/20/2010 | | | | |
| Tennelec LB 2 GFPC | | 68819-1 | 8/25/10 | N/A | 0.8 | 27.4% | 21.0 | 2.4 | 33.0% | 24 | Time: 8:45 | | | | |
| Lud 2221 44-10 D | | 228817 | 9/17/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm ² | | | | |
| N/A | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10688 | | | | |
| N/A | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 | | | | |
| N/A | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/21/10 | | | | |

Remarks: A 2 X 2 gamma survey was preformed ~ 3' X 3' area around location highest reading found 72809 gcpm with BKG of 18943 cpm . Core sample was taken at highest reading found.

| # | Description | Removable Alpha | | Removable Beta | | Total Alpha | | Total Beta | | βγ Dose Rate | | Limit Exceeded |
|-----|------------------|-----------------|--------------------------|----------------|--------------------------|-------------|--------------------------|------------|--------------------------|---------------|-----------------|----------------|
| | | Net CPM | DPM / 100cm ² | Net CPM | DPM / 100cm ² | Gross CPM | DPM / 100cm ² | Gross CPM | DPM / 100cm ² | Contact uR/hr | Gen. Area uR/hr | |
| 1 | See attached map | 0.1 | <MDA | 3.6 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2 | See attached map | 2.2 | <MDA | 1.9 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3 | See attached map | 3.2 | <MDA | 1.6 | <MDA | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Radiological Survey Report (Map)

| | | | | | | | | | | |
|--|---------------|-----------------|-------------------------------|---|------------------|-----------------|---------------------------|-----------------|----------------|--------------------------|
| Purpose of Survey: Pre job survey of core drilling and sampling in Process Bldg. 255-54/255-75 location # 18 | | | | | | | Log Number: 0473 S 100420 | | | |
| Surveyed By: Thomas Yardy <i>Thm 4-21-10</i> | | | | Reviewed By: <i>Charles Fink Enbino 4-22-10</i> | | | | | | |
| Instrument | Serial Number | Calibration Due | Probe Area (cm ²) | Alpha Bkg (cpm) | Alpha Efficiency | Alpha MDA (dpm) | Beta Bkg (cpm) | Beta Efficiency | Beta MDA (dpm) | Date: 04/20/10 |
| Tennelec LB 2 GFPC | 68819-1 | 8/25/10 | N/A | 0.8 | 27.4% | 21.0 | 2.4 | 33.0% | 24 | Time: 8:45 |
| Lud 2221 44-10 D | 228817 | 9/17/10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Smear Area: ~ 100 cm2 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Batch #: 10688 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RWP: RP-10-S013 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Misc: Documented 4/21/10 |

Remarks: A 2 X 2 gamma survey was performed ~ 3' X 3' area around location highest reading found 72809 gcpm with BKG of 18943 cpm . Core sample was taken at highest reading found.

