

Page 1 of INSPECTION REPORT NO. 30-8985/78-01
30-10036/78-01

Attached

[☒] Appendix A[☒] Appendix B[☒] Appendix C[☐] MemoISOMEDIX, Incorporated
25 EASTMANS Road
P.O. Box 177
Parsippany, New Jersey 07054Licensee contact: JG Dietz Pres Telephone no. 201-887-4700License no. 24-15364-01 → #15 11/17/77
24-15364-02 Last amendment and date: 4 11/17/77
03010030Category: E, and Priority: 4, as of last amendment.Inspection date(s): JAN. 31, 1978Type of inspection: unannounced
Special

SUMMARY OF FINDINGS AND ACTION

[☐] No noncompliance, clear 591 issued[☐] Noncompliance, 591 issued[☒] Noncompliance, Appendix A[☐] Regional action Hq action[☒] Action on previous noncompliance, Appendix B[☐] Supplemental info, Appendix C

RECOMMENDATIONS

See basis in Appendix C or attached memo.[☐] Change Category to: I[☐] Change Priority to: [☐] Next inspection date: 6/78special

PERSONS CONTACTED

George Dietz President Shes
Jess Doyle - Manager RSO
W. McKimm Potallopr.
K. Michaels oprInspector: E. EpsteinApproved: R. Michaels2/10/78

Plan approved: _____ Date: _____

Licensee: _____

License no: _____

Inspection Items	Scheduled for inspection	Post-inspection status	Module no.	766 Time Info
Management meeting - <u>Entrance and Exit Interviews</u> [REQUIRED]	✓	MC discussed	307038	1 hr
Initial Management Meeting	✓	scope of Inspect	✓	10 min
Program requirements, MC 28 [REQUIRED]	✓	MC notes	✓	4 hr
Licensee Event Followup	N/A		927008	
Followup on Inspector-identified problems	✓	pro country techniques & equipment	927018	2 hr on country
Followup on Noncompliance and Deviations	✓	MC notes	927028	1 hr
IE Bulletin/Immediate Action Letter Followup	N/A	N/A	927038	
Followup on Headquarters Requests	N/A		927048	
Followup on Regional Requests	N/A		927058	
Independent Inspection Effort [REQUIRED]	✓	MC		4 hr
Inspector Dispatched to Site	N/A		937008	
Followup on Significant Event Occurring During Inspection	✓	back during operations meet	937018	✓

AREAS INSPECTED AND FINDINGS

Licensee: _____ License no: _____ Amendment no: _____

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond <u>16</u>	<u>C</u>
Management organization.		
Radiation protection organization.		
<p><i>licy</i> <i>Doyle been manage & act R.S.</i> <i>workmen.</i></p>		
NOTES & REMARKS:		
2. <u>Licensee internal audits</u>	Lic Cond <u>16</u>	<u>C</u>
Scope and frequency.		
Management controls.		
<p><i>almost daily contact</i> <i>licy's new office at 825 Jefferson Road,</i> <i>Whipping 5 min away</i> <i>from Eastmans Rd</i> <i>licy comes to Eastmans Rd daily</i> <i>to discuss problems & current activity</i></p>		
NOTES & REMARKS:		
3. <u>Training and instructions to employees</u>	Lic C	<u>C</u>
Training program, scope and frequency, retraining.	Lic Cond <u>16</u>	
Required tests administered; scores satisfactory.		
Instructions to workers.	19.12	
<p><i>6/12/77 submission</i> <i>8/23/77 training more</i> <i>yes</i> <i>yes</i></p>		
NOTES & REMARKS:		
<p><i>no restrictions to two female employees (child bearing)</i> <i>age 22 & 30) as to regd females receive 1-2 mS/hr. This daily</i> <i>1.5 x 7 x 13 = 682 mrem/quarter assessed with lity to reduce as O&A.R.P.</i></p>		
4. <u>Radiation protection procedures</u>		<u>C</u>
Operating & emergency procedures implemented.	Lic Cond <u>16</u>	
Security.	20.207	
<p><i>yes</i> <i>with St Barnabas Hospital</i></p>		
NOTES & REMARKS:		

AREAS INSPECTED AND FINDINGS

Licensee: _____ License no: _____ Amendment no: _____

INSPECTION ITEM	CRITERIA	FINDING
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5. Materials, facilities and instruments

Authorized uses and quantities. <u>yes</u>	Lic Cond _____
Restricted areas, posting requirements.	20.203
Survey instruments & dosimeters; operable, properly calibrated.	Lic Cond _____

NOTES & REMARKS:

large pool = 990 000 Ci Co^{60}
 Cell #1 100,000 Ci Co^{60}
 Cell #2 65000 Ci Co^{60} for disposal
 Cell #3 Co^{60}

Lic-2
 Co^{137}
 83,500 Ci total
 in irradiation program
 45,000 Ci ORNL for
 Dept of Agric Irradiation program
 110 sources 350 Ci each for
 small irradiation program

6. Receipt and transfer of materials

Procedures implemented, adequate. <u>yes</u>	20.205, 71.51
Transfer of byproduct material. <u>yes</u>	30.41
Labeling and packaging. <u>yes</u>	71.5, 49CFR 170-189
Records of receipt, transfer, storage, survey, and monitoring	30.51

NOTES & REMARKS:

licenses not obtained in advance for each irradiation
shipment

7. Personnel protection - external

Personnel monitoring control; minimize exposures, control of accumulated dose.	20.101, 20.102, 20.202
Surveys conducted, adequate.	20.201 <u>Inadequate</u>
Records of monitoring, surveys, disposals.	20.401, Lic Cond _____
Levels in unrestricted areas. below 0.1 mrem	20.1, 20.105

NOTES & REMARKS:

all areas in Plant near restricted areas
 Licensees instrument scale and well counter inadequate high
 rapid fluctuating background - 20000-24000 cpm - able to proc

8. Personnel protection - internal

Airborne concentrations in restricted areas.	20.103 <u>use</u>
Exposure of minors.	20.104
Posting of airborne radioactivity areas.	20.203
Survey, monitoring requirements; records.	20.201, 20.401
Leak tests of sealed sources.	Lic Cond _____

NOTES & REMARKS:

Inadequate samplings of air
 means
 water
 readings

Baywa = 150
 3 seg = 450 cpm
 in any degree of confidence
 ± 1350 dpm
 in any measurement

AREAS INSPECTED AND FINDINGS

777103 - Industrial-Academic

Licensee: _____ License no: _____ Amendment no: _____

INSPECTION ITEM	CRITERIA	FINDING
9. <u>Effluent control, waste disposal</u>		<u>MC</u>
Release of effluents.	20.106	
Waste disposal.	20.301, 20.303, 20.304, 20.305	
Procedures, records.	20.401, Lic Cond	
<p><i>166i</i> <i>Co⁶⁰ disposed as waste, need water release to reprocess tanks to unrestricted fields in rear of lice property -</i></p> <p><i>NOTES & REMARKS:</i> <i>no cond 20.201</i> <i>water backflush of resin beds 600 gal/flush once monthly</i> <i>not cond found to 1.5 x 10⁻⁵ uCi/cc by Inspector 2270 of MPAW</i></p>		
10. <u>Shipping, shipping incidents</u>		<u>C</u>
Procedures for pickup, receipt, monitoring of packages.	20.205(b) & (c)	
Transportation of licensed material.	71.5	
Incidents, reports, corrective actions.	49CFR 170-189	
<p><i>NOTES & REMARKS:</i></p>		
11. <u>Notifications and reports</u>		<u>C</u>
To individuals.	19.13	
Overexposures, excessive levels & concentrations, incidents.	20.403, 20.405	
Personnel exposures and monitoring, termination reports.	20.407, 20.408	<i>yes</i> <i>been</i>
Theft or loss of licensed material.	20.402	<i>no</i>
<p><i>NOTES & REMARKS:</i></p>		
12. <u>Posting of notices</u>		<u>C</u>
Part 20, license & documents, procedures, notice of violations.	19.11(a)	
NRC-3.	19.11(c)	
<p><i>NOTES & REMARKS:</i></p>		

AREAS INSPECTED AND FINDINGS

777108 - Industrial-Academic

Licensee: _____ License no: _____ Amendment no: _____

INSPECTION ITEM	CRITERIA	FINDING
13. <u>Environmental monitoring program</u>	Lic Cond _____	_____
Implementation of program, scope and frequency as required.	<u>nm</u>	
Records maintained, reviewed by management.		

NOTES & REMARKS:

14. <u>Emergency preparedness</u>	Lic Cond _____	_____
Procedures available for incidents and accidents.	<u>yes</u>	
Training for personnel; coordination with supporting groups and agencies.	<u>yes</u>	

NOTES & REMARKS:

15. <u>Other license conditions</u>	Lic _____	_____
<u>all license conditions checked</u>		

NOTES & REMARKS:

16. <u>Confirmatory measurements</u>		_____
Licensee's surveys verified on sampling basis.	20.105, 20.201	

NOTES & REMARKS:

new bad
~~sample~~ instrument well counter -
new bad
 1.5-2 msv found at secretaries desk

17. <u>Independent inspection effort</u>	due to storage of waste in cells	_____
	<u>1 & 2</u>	

NOTES & REMARKS:

checked instrument well counter by moving it to low background area. this did not change the basic waste fluctuations in successive counts ± 4000 c/p/min

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: *Immedix*

License no: _____

Reference	Basis for noncompliance
Report item <u>7</u>	
10 CFR <u>201(b)</u> <u>u.103</u>	In that surveys to determine contamination on surfaces in rear of hot cells 1+2 were inadequate so that the counting instruments used had defects rendering the results of no use <u>useless</u> .
Lic Cond _____	
Type n/c _____	
Report item <u>8</u>	
10 CFR <u>Lic Cond 1c</u>	Likage of surveys were also made
Lic Cond _____	sect 4.4 water monitoring under is discharge of into industrial waste drain and sampled after radioactive analyses.
Type n/c _____	<u>no radio analysis</u>
Report item _____	
10 CFR _____	<u>Lic 02</u>
Lic Cond <u>13 Leak Tests</u>	Leak tests involved because of inadequate eqpt fluctuations above <u>= .005 uci</u>
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: Immedix _____

License no: _____

Identification and summary of action taken

Status

Report no: 7701 Type n/c: Info Describe: _____Action taken: Intense hallway posted with CRA signs
2 m/br ~~OPEN~~
CLOSEDReport no: 7701 Type n/c: def Describe: Personal Asset RecAction taken: 20.401a personal monitoring records
did not agree in calendar quarters with
film badge processor and now do so ~~OPEN~~
CLOSEDReport no: 7602 Type n/c: up Describe: 30.41 lic -01
new lic 02Action taken: letter of 12/6/76 verification of licenses of
transfers of Co¹³⁷ Gamma ~~OPEN~~
CLOSED

Report no: _____ Type n/c: _____ Describe: _____

Action taken: _____ ~~OPEN~~
CLOSED

Report no: _____ Type n/c: _____ Describe: _____

Action taken: _____ ~~OPEN~~
CLOSED

APPENDIX C - SUPPLEMENTARY INFO _____

Licensee: _____

License no: _____

- ☐ Uncorrected/repeated noncompliance
☐ Unusual occurrence, conditions, etc
☐ Basis for change of Category or Priority

- ☐ Unresolved items
☐ Inspector's comments

*we should inspect Lomedix
at least yearly. Inadequate eval. was
noted at our last inspection 7701 and
the cause ~~was~~ defective counting
equipment ~~was~~ was determined
recommended reinspect within 6 months*

