

SAFETY INSPECTION

U.S. NUCLEAR REGULATORY COMMISSION

34-19008-01MA  
Lic. File 6

1. LICENSEE

Syngor Corp.  
2719 Manchester Rd.  
Akron, Ohio 44319

2. REGIONAL OFFICE

UNITED STATES NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

3. DOCKET NUMBER(S)

030-15203

4. LICENSE NUMBER(S)

34-19008-01MA

5. DATE OF INSPECTION

7/18/84

Licensee:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission's (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews, with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

☒ 1. Within the scope of this inspection, no violations were observed.

☐ 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.

☐ 3. During this inspection certain of your activities, as checked below, were in violation of NRC requirements.

THIS IS A NOTICE OF VIOLATION which is required to be posted in accordance with 10 CFR 19.11.

☐ A. \_\_\_\_\_ was not properly posted to indicate the presence of a \_\_\_\_\_ 10 CFR 20.203(b), (c), (d), (e) or 34.42.

☐ B. Containers located in \_\_\_\_\_ were not properly labeled to indicate the presence of radioactive material. 10 CFR 20.203(f)(1), or (f)(2).

☐ C. \_\_\_\_\_ of sealed sources were not performed at the proper frequencies. 10 CFR \_\_\_\_\_ License Condition Number \_\_\_\_\_

☐ D. Records of \_\_\_\_\_ were not properly maintained. 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_

☐ E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.

☐ F. Reports or notifications of \_\_\_\_\_ were not made in accordance with 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_

☐ H. \_\_\_\_\_

☐ I. \_\_\_\_\_

☐ J. \_\_\_\_\_

☐ K. \_\_\_\_\_

I hereby state that within 30 days the actions described by me to the Inspector will be taken to correct the violations identified in the items checked above. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by the NRC.

SIGNATURE - LICENSEE

DATE

SIGNATURE - NRC INSPECTOR

DATE

5408060109

14 pp

James Mullauer

7/18/84

## MEDICAL INSPECTION REPORT

Inspection Report No. 8401

Licensee (Name and address)

Lincoln Corp  
2719 Manchester Road  
Akron, Ohio 44319Licensee Contact: Wm. Wilson Telephone No. 216-836-9384License No. 34-19008-01 M.D. Docket No. MD-15203Last Amendment No. 07 Date of Amendment: 1/9/84Category: G1 Priority: 2Date of Inspection: 7/13/84Type of Inspection: ☐ Announced ☐ Initial  
☒ Unannounced ☐ Special  
☒ Reinspection

## Summary of Findings and Actions:

☒ No Noncompliance, Clear 591 issued ☒ Action on Previous N/C☐ Noncompliance, 591 issued ☐ Regional Action☐ Noncompliance, Appendix A ☐ Hq ActionInspector: James Muller  
(Signature)7/24/84  
(Date Signed)Approved: D. J. Stenhouse  
(Signature)7/24/84  
(Date Signed)

1. INSPECTION HISTORY

a. Item(s) of noncompliance or deviations noted during last inspection conducted on: 3/10/82 ☒ Yes ( ) No

b.	Requirement	Type of N/C	Corrective Action Taken		Status	
			( ) Yes	( ) No	Open	Closed
①	Gm Calibration		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
②	Inventory		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

c. If any item(s) of noncompliance or deviations noted during last inspection were not corrected, explain:

N/A

2. ORGANIZATION

a. Administrative structure meets License requirements: ☒ Yes ( ) No  
(L/C - MPA)

\* Wm. Wilson - RSO

T. Ricca - Pharmacist

A. Taha - Pharmacist

\* Attended Management close-out meeting

b. Use by authorized individuals: ☒ Yes ( ) No  
(L/C - MAC)

c. Isotope Committee meets at required intervals: ( ) Yes ( ) No  
(L/C - MPA)

N/A

- d. Record of Committee meetings: ( ) Yes ( ) No  
(L/C - MPA)
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3. SUMMARY OF PROGRAM

*This pharmacy services 29 hospitals  
licensee receives 2 generators per  
week and normally has 4 generators  
on hand. 5 drivers, no pharmacy  
tablets.*

4. INTERNAL AUDITS OR INSPECTIONS

- a. Required by License Condition: ( ) Yes ☒ No  
b. Audits or Inspections conducted: ☒ Yes ( ) No  
(L/C - MPA)

*Safety Sciences quarterly*

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- c. Records maintained: ☒ Yes ( ) No  
(L/C - MPA)
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5. TRAINING, RETRAINING AND INSTRUCTION TO WORKERS

- a. Training program required by License Condition: ☒ Yes ( ) No  
b. Training program implemented: ☒ Yes ( ) No  
(L/C - FJC)
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- c. Retraining program required by License Condition: ☒ Yes ( ) No  
d. Retraining program implemented: ☒ Yes ( ) No  
(L/C - FJC)
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- e. Instruction to workers in accord with 10 CFR 19.12: ☒ Yes ( ) No  
(19.12 - HAI)
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6. RADIOLOGICAL PROTECTION PROCEDURES

- a. Procedures referenced in License Condition: ☒ Yes ( ) No
- b. Use in accordance with referenced procedure: ☒ Yes ( ) No  
(L/C - MPA)
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- c. Individual's understanding of procedures adequate: ☒ Yes ( ) No
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7. MATERIALS, FACILITIES AND INSTRUMENTS

- a. Facilities as described in License Application: ☒ Yes ( ) No  
(L/C - MPA)
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- b. Isotope, chemical form, quantity and use as authorized: ☒ Yes ( ) No  
(L/C - MPA)
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- c. Tests required by License Condition or Regulations

(1) Molybdenum-99 breakthrough: ☒ Yes ( ) No

(2) Performed as required: ☒ Yes ( ) No  
(L/C - MCA)

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(3) Leak tests : ☒ Yes ( ) No

(4) Leak tests performed as required: ☒ Yes ( ) No  
(L/C - MTB: (35.14(b)(5)(1) - EFY (35.14(e)(1)(1) - EFY)

(5) Other tests required:

d. Inventory of sealed sources

(1) Inventory of Group VI sources: ( ) Yes ( ) No  
(35.14(b)(5)(v) - EFY )

N/A

(2) Inventory of calibration sources: ☒ Yes ( ) No  
(35.14(f)(2) - EFY)

e. Storage of radioactive materials

(1) Method used to prevent an unauthorized individual from entering a restricted area is adequate: ☒ Yes ( ) No

(2) Radioactive material secured to prevent unauthorized removal from an unrestricted area: ☒ Yes ( ) No  
(20.207 - ACA or ACA)

f. Instrumentation

- (1) Operable survey instruments as described or equivalent to those described in License Application: ☒ Yes ( ) No  
(L/C - MPA)
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- (2) Capability of radiation survey instruments adequate for program: ☒ Yes ( ) No
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- (3) Calibration of survey instruments required: ☒ Yes ( ) No

- (4) Performed as required: ☒ Yes ( ) No  
(L/C - MPA)
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- (5) Dose calibrator checks required: ☒ Yes ( ) No

- (6) Performed as required: ☒ Yes ( ) No  
(L/C - MPA)
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B. RECEIPT AND TRANSFER OF RADIOACTIVE MATERIAL

- a. Survey of incoming packages: ☒ Yes ( ) No  
(20.205(b)(1) - APA) or (L/C - MPA)
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- b. Record of survey: ☒ Yes ( ) No  
(20.401(b) - AEB)
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c. Procedure for opening packages: ☒ Yes ( ) No  
(20.205(d) - APA)

d. BPM transferred in accordance with 10 CFR 30.41: ☒ Yes ( ) No  
(30.41 - BAY)

e. Records of receipt and transfer maintained: ☒ Yes ( ) No  
(30.51 - PAC)

9. PERSONNEL RADIATION PROTECTION - EXTERNAL

a. Film or TLD badge supplier: Landauer Frequency: Mo

b. Reports reviewed by: RSO Frequency: Mo

c. NRC inspector reviewed personnel monitoring records for  
period 3/82 to 6/84

d. NRC forms or equivalent

(1) NRC-4: ( ) Yes ☒ No Complete: ( ) Yes ( ) No

(2) NRC-5: ☒ Yes ( ) No Complete: ☒ Yes ( ) No  
(20.401(a) - AEA)

e. Maximum quarterly whole body exposure: 70 mRem

f. Maximum quarterly extremity exposure: 11,890 mRem

g. Licensee has implemented the ALARA program: ☒ Yes ( ) No

Exposure was investigated and  
described in report dated 1/31/84



- h. Radiation survey of unrestricted area: ☒ Yes ☐ No  
(20.201(b) to show compliance with 20.105(b) - ASI)
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- i. Record of survey maintained: ☒ Yes ☐ No  
(20.401(b) - AEP)
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- j. Radiation survey of use areas (hot lab, therapy treatment area,  
patient's room, etc.): ☒ Yes ☐ No  
(L/C - MSB)
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- k. Record of survey maintained: ☒ Yes ☐ No  
(L/C - MSB)
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10. PERSONNEL RADIATION PROTECTION - INTERNAL

- a. Potential for exposure of individuals to airborne radioactive  
material exists: ☒ Yes ☐ No

- b. Monitoring for airborne radioactivity conducted: ☒ Yes ☐ No  
(20.201(b) to show compliance with all sections of 20.103 - ASE)
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- c. Records of monitoring maintained: ☒ Yes ☐ No  
(20.401(b) - AEB)
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11. RADIOACTIVE EFFLUENT AND WASTE DISPOSAL

a. Radioactivity in effluents to unrestricted areas: ☒ Yes ( ) No

b. Release in accordance with regulatory limits: ☒ Yes ( ) No  
(20.106(a) - ABJ or ABJ)

c. Solid waste disposal method:

*Decay. Generators held for one month then returned to manufacturer*

d. Liquid waste disposal method:

*held for decay*

e. Disposal of solid and liquid waste in accordance with regulatory requirements: ☒ Yes ( ) No

f. Records of disposal: ☒ Yes ( ) No  
(30.51 - BAC)

g. Survey of waste prior to disposal: ☒ Yes ( ) No  
(20.201(b) to show compliance with 20.301 - ASH)

h. Records of surveys maintained: ☒ Yes ( ) No  
(20.401(b) - AEB)

12. NOTIFICATIONS AND REPORTS

- a. Licensee in compliance with 10 CFR 19.13 (Reports to individuals)  
(19.13 - HAK)

☒ Yes ( ) No

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- b. Licensee in compliance with 10 CFR 20.405 (Over exposures)  
(20.405(a) - ARM)

☒ Yes ( ) No

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- c. Licensee in compliance with 10 CFR 20.403 (Incidents)  
(20.403 - AR? or AR?)

☒ Yes ( ) No

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- d. Licensee in compliance with 10 CFR 20.402 (Theft or loss)  
(20.402(a) - ARA)  
(20.402(b) - ARE)

☒ Yes ( ) No

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- e. Licensee in compliance with 10 CFR 35.42 or 10 CFR 35.43 (Misadm.)  
(35.42 - BFY) or (35.43 - BFY)

☒ Yes ( ) No

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13. POSTING OF NOTICES

Notices to workers posted: ☒ Yes ( ) No  
(19.11(a) or (b) - HAE ) (19.11(c) - HAF)

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14. CONFIRMATORY MEASUREMENTS

a. Independent measurements made by inspector: ☒ Yes ( ) No

b. Survey Instrument: Lotex NRC Ser. No. 007854

last date of calibration: 5/23/84

c. Describe type and results of measurements and compare with

licensee's measurements: Waste storage 6mR/h

Generator Shield 3mR/h

Generator Storage 3mR/h

15. POSTING AND LABELING

Posting and labeling in accordance with 10 CFR 20.203: ☒ Yes ( ) No  
(20.203 - AL? or AL?)

16. LICENSE CONDITIONS

a. All License Conditions reviewed during inspection: ( ) Yes ( ) No

b. Activities were conducted in accordance with License Conditions

except as noted elsewhere in this report: ☒ Yes ( ) No

17. BULLETINS AND CIRCULARS

a. Bulletins and Circulars issued during current year:

b. Bulletins and Circulars received by licensee: ( ) Yes ( ) No

- c. Licensee took appropriate action in response to Bulletins and Circulars: ☐ Yes ☐ No
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18. TRANSPORTATION

- a. Licensee ships radioactive waste to burial site or spent generators to supplier for disposal: ☒ Yes ☐ No
- b. Packages contain greater than exempt quantities ( 1 mCi ) of radioactive material: ☒ Yes ☐ No
- c. If greater than exempt quantities are shipped, only packages which have met DOT Spec 7A performance criteria, as described in 49 CFR 173.398(b), are used: ☒ Yes ☐ No (71.5(a) - LAF)
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- d. Document showing that package meets DOT Spec 7A performance criteria is maintained, as required by 49 CFR 173.395(a)(1): ☒ Yes ☐ No (71.5(a) - LAF)
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19. ITEMS OF NONCOMPLIANCE

Note: Attach a copy of Appendix A of the enforcement letter.

20. CONTINUATION OF REPORT ITEMSThis image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

APR 6 1982

*Lic. File*

License No. 34-19008-01MD

Pharmatopes, Inc.  
ATTN: William Wilson, R.Ph.  
Radiation Safety Officer  
2719 Manchester Road  
Akron, OH 44319

Gentlemen:

This refers to the routine safety inspection conducted by Mr. R. E. Burgin of this office on March 10, 1982, of activities authorized by NRC Byproduct Material License No. 34-19008-01MD and to the discussion of our findings with you and A. Tang, R.Ph. at the conclusion of the inspection.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and with the conditions of your license. The inspection consisted of a selective examination of procedures and representative records, observations, independent measurements, and interviews with personnel.

During this inspection, certain of your activities appeared to be in non-compliance with NRC requirements, as specified in the enclosed Appendix. A written response, submitted under oath or affirmation, is required.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

*D. J. Sreniawski*

D. J. Sreniawski, Chief  
Materials Radiation Protection  
Section 2

Enclosure: Appendix,  
Notice of Violation

cc w/encl:  
DMB/Document Control Desk (RIDS)

RIII 1/8 3/4/2  
Burgin/jp  
3/26/82

RIII WJS  
Sreniawski  
4/6/82

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