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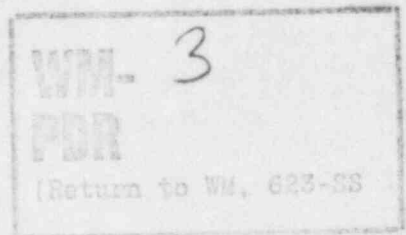
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MEMORANDUM FOR: Edward F. Hawkins, Acting Chief
Low-Level Waste Licensing Branch

FROM: Timothy C. Johnson
Low-Level Waste Licensing Branch

SUBJECT: NRC LICENSEES LISTED AS HAZARDOUS CHEMICAL WASTE
GENERATORS

In L.R. Bowser's memorandum to R.D. Smith dated August 14, 1982 a list was prepared of NRC licensees in Virginia, Ohio and Illinois who were also listed by the Environmental Protection Agency as hazardous chemical waste generators (Attachment 1). This list includes primarily hospital and university licensees but does include several potential industrial waste generators. In order to ensure that it was unlikely that hazardous chemical wastes could be an intrinsic component of radioactive wastes, I reviewed the licenses of twenty-three of the industrial firms.

In summary, the industrial firms reviewed had licenses for:

- a. Possession of various sources for irradiation, gauges and analyzers
- b. Possession of various tracers
- c. Manufacture and distribution of products containing isotopes
- d. Distribution of products to persons exempt from licensing

With the exception of the use of tracers, it appears that hazardous chemical waste generation activities are separated from those activities which could generate radioactive waste materials.

I have attached a listing of the license information for the surveyed firms (Attachment 2).

Original Sent by
Paul H. Lohaus

Timothy C. Johnson
Low-Level Waste Licensing Branch

Enclosure: As stated above

OFC :	WMLL	WMLL	:	:	:	:	:
NAME :	TCJohnson	PHLohaus	:	8304180654	830315	:	:
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NRC Licenses For
Hazardous Chemical Generators

Illinois

1. Amersham Corporation 12-12836
 - a. Radioassay kit manufacture and distribution; C¹⁴, H³, Cr⁵¹, Co⁵⁸, I¹²⁵, several TRU Nuclides, U, Tc^{99m}
 - b. Po²¹⁰ device manufacture and distribution
 - c. Distribution products to persons exempt from licensing under 830.18.
2. Cetron Electric 12-09745
 - a. Kr⁸⁵ for manufacture of electron tubes
 - b. Distribution of products to persons exempt from licensing under 830.15
3. Honeywell, Inc. 12-12267
 - Am²⁴¹, Ni⁶³ Foils for ionization chamber manufacture and testing
4. Laclede Steel Corporation 12-04757
 - Co⁶⁰, Cs¹³⁷, sealed sources for level and density gauges
5. National Steel Corporation 12-16682
 - a. Am²⁴¹, Cs¹³⁷ sealed sources for density gauges
 - b. Ni⁶³ foil for gas chromatography
6. Ni-Tec 12-20061
 - H³ light source manufacture and R&D
7. Northern Petrochemical Co.; Morris 12-13972
 - a. Cs¹³⁷, Co⁶⁰ sealed source for level gauges
 - b. H³, Ni⁶³ foils for gas chromatography
8. Sargent-Welsh Scientific Co. 12-6661

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Distribution of products to person exempt for licensing under 830.18

9. Shell Oil Co. 12-00379
Am²⁴¹, Ni⁶³, Pu²³⁸, Cs¹³⁷, H³ sealed and plated sources for density gauges and sulphur determination
10. Sherwin-Williams Co. 12-2542
a. C¹⁴ Tracers
b. Ni⁶³ foils for gas chromatography
c. Cs¹³⁷ sealed sources for density and level gauges
11. Travenol Laboratories; Morton Grove; Round Lake 12-15777
a. H³, I¹⁷⁵ Tracers for invitro testing
b. Distribution of I¹²⁵ kits
c. H³, C¹⁴, P³⁷, S³⁵, Cr⁵¹, I¹³¹, Sn¹¹³ Lab tracers
d. Ni⁶³ foils for gas chromatography
12. Velsicol Chemical Corp.; Chicago 12-4225
Cs¹³⁷ sealed sources for density gauges

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Ohio

1. Cincinnati Electronics Corp. 34-16018
Possession of activated electronic components from irradiation testing
2. Diamond-Shamrock Corp; Paynesville 34-583
 - a. C¹⁴, S³⁵, P³², H³, I¹²⁵, Ru⁸⁶ Tracers
 - b. H³, Ni⁶³ foils for gas chromatography
 - c. Am²⁴¹ sealed source for x-ray fluorescence analyzer
 - d. Cs¹³⁷ sealed source irradiator
3. Dow Chemical Co; Granville 34-17601
 - a. Ni⁶³ plated sources for gas chromatography
 - b. Cs¹³⁷ sealed source for density gauge
 - c. Kr⁸⁵ for density gauge
 - d. Fe⁵⁵, Cd¹⁰⁹ for x-ray fluorescence analyzers
 - e. Am²⁴¹ source for analyzer
4. Harshaw Chemical Corp; Solon 34-14598
Inactive License
5. Harshaw Chemical Corp; Cleveland 34-6558
 - a. Cs¹³⁷ sealed source for density gauges
 - b. Distribution of Am²⁴¹ sealed sources for scintillation detectors
 - c. Various sealed and plated sources for R&D, testing, distribution and calibration
6. Proctor and Gamble Company; Cincinnati 34-1572
 - a. Manufacture of Tc^{99m} reagent kits
 - b. incinerator license

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c. H^3 , C^{14} , S^{35} , Mo/Tc^{99m} , I^{125} Tracers

d. Cs^{137} , Co^{60} , Am^{241} sealed sources for flow, level and density gauges

e. Cd^{109} sealed source for x-ray fluorescence analyzer

f. Co^{60} sealed source irradiator

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45-02808

- 45-03253

- 45-13733

45-3302

- 45-00385

- 45-19163

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