



State of Wisconsin \ DEPARTMENT OF HEALTH AND SOCIAL SERVICES

lic # 48-16296-01  
DCD/DCD

February 6, 1990

DIVISION OF HEALTH  
MAIL ADDRESS:  
1 WEST WILSON STREET  
P.O. BOX 309  
MADISON, WI 53701-0309

Donald Paschen, President  
Midwest Inspection Service, Ltd.  
3171 Gross St.  
Green Bay WI 54304

*Lic. File*  
48-16296-01  
30-10749

Dear Mr. Paschen:

Enclosed is the report of the inspection of your x-ray facility. The report identifies the following deficiencies found during the inspection:

1. Levels above 4 mR/hr. found at all three outside walls.
2. Levels between 10 and 100 mR/hr. found at the inside wall.
3. Levels above 100 mR/hr. found at the door.
4. Levels above 100 mR/hr. found at the wall above the darkroom roof.
5. No visible or audible "beam on" signal within the enclosure.
6. No interlocks on the enclosure door.
7. Roof of x-ray room not posted as radiation area.

In order to bring your x-ray facility into compliance with the requirements of the Wisconsin Administrative Code, the following is required:

1. Outside walls - Additional shielding is required to reduce the dose rate to 2 mR/hr. or a fence, posted "Radiation Area" must be erected which will restrict access to any area in excess of 2 mR/hr.
2. Inside wall - Additional shielding is required to reduce the dose rate to 2 mR/hr. or less at any point on the wall, floor to ceiling.
3. Door - Additional shielding is required to reduce the dose rate to 2 mR/hr. or less.
4. Wall above darkroom roof - Additional shielding is required to reduce the dose rate to 2 mR/hr. or less.
5. Beam on signal - A visible and/or audible signal which is activated at least 5 second prior to the generation of x-rays must be installed within the enclosure.
6. Door interlocks - Interlocks which will terminate the generation of x-rays when the enclosure door is opened must be installed.
7. Roof - A posted barrier, such as a fence, must be erected on the roof at any point in excess of 2 mR/hr.

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Donald Paschen  
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It is required that written notification of the correction of all x-ray unit noncompliance items be furnished to this office within 30 days following receipt of this report.

For your information, I've enclosed a copy of the Wisconsin Administrative Code, HSS 157. If you have any questions regarding these modifications or need any additional information please contact me at (608) 273-5184.

Sincerely,



Mark C. Bunge, Supervisor  
Section of Radiation Protection

MCB/ba

Enclosure

cc: NRC



State of Wisconsin

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MADISON, WISCONSIN 53701

Section of

Radiation Protection

INDUSTRIAL RADIOGRAPHIC SURVEY  
INSPECTION FINDINGS AND CONCLUSIONS  
CLASS A, B or C

ADMINISTRATIVE INFORMATION

Registration No. XI 17093

- 1. Name of Registrant Midwest Inspection Services, Ltd.
- 2. Person Responsible Donald Paschen, President
- 3. Address 3171 Gross St. City Gr. Bay County Brown
- 4. Date of Survey 1/30/90 Surveyor Thomas Warnke
- 5. Equipment: Type Portable Stationary X
- 6. Manufacturer Philips Model
- 7. Identification
- 8. Person Interviewed Donald Paschen Title President

IN COMPLIANCE:

	(1)	(2)	(3)
Yes		No	N/A

- A. The x-ray source and all objects exposed to it are contained within a permanent enclosure. X
- B. Reliable interlocks that prevent opening of the enclosure or terminate the generation of x-rays should the enclosure be opened.     X
- C. Escape is possible from the enclosure at all times. X
- D. Visible or audible signals within the enclosure are activated at least 5 seconds prior to generation of x-rays.     X
- E. Ceiling barrier either limits the external dose rate to 2 mr/hr or a posted barrier restricts access to the area of excessive dose rate.     X
- F. No person remains within the enclosure while the x-ray generator is operating. X
- G. Adequate locks on building, enclosure, or control unit to prevent use by unauthorized persons. X
- H. Protective enclosures and equipment in good repair.     X
- I. Adequate operating and emergency procedures. X

(1) (2) (3)

REMARKS