

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 14, 2001

GENERIC USE

MEMORANDUM TO:	Dwight D. Chamberlain, Director Division of Nuclear Materials Safety, RIV
FROM:	Division of Nuclear Materials Safety, RIV John W.N. Hickey, Chief Materials Safety and Inspection Branch Division of Industrial and Medical Nuclear Safety, NMSS
SUBJECT:	TECHNICAL ASSISTANCE REQUESTS: GLOBAL X-RAY & TESTING CORPORATION, DATED JULY 28, 2000 LOUISIANA LICENSE NUMBER LA-0577-L01; BAYOU TESTING SERVICES INC. DATED AUGUST 28, 2000, LOUISIANA LICENSE NUMBER LA-7112-L01; ACCURATE NDE & INSPECTION L.L.C., DATED SEPTEMBER 18, 2000, LOUISIANA LICENSE NUMBER LA-10207- L01 BEOUEST FOR EXEMPTION FROM 10CFR34.20(A)(1).

Request:

Technical Assistance Requests (TAR's): from Global X-ray & Testing Corporation, dated July 18, 2000, Louisiana License Number LA-0577-I01; Bayou Testing Services Inc., Louisiana License Number LA-7112-I01, dated August 28, 2000; and Accurate NDE & Inspection L.L.C., dated September 18, 2000, Louisiana License Number LA-10207-I01 are seeking an exemption from 10CFR34.20(a)(1) in order to use "PIPELINER" radiographic inspection devices for offshore radiography activities on lay barges, in the Gulf of Mexico, an area under federal jurisdiction.

Finding:

NRC staff has reviewed the applications, and concluded that the information submitted by the applicants, when supplemented by information developed by the staff, is sufficient to make a determination that with the conditions as describe below, these exemptions may be granted.

Action:

Notwithstanding the requirements of 10CFR34.20(a)(1), and pursuant to 10CFR34.11 and 10CFR150.20, applicants would be authorized to use Gamma Industries Model Pipeliner I, Gamma Industries Model 201, SPEC Model SPEC-CHECK model I, and SPEC-CHECK Model II pipeliner exposure devices for conventional pipelining radiography operations, on lay barges in areas under federal jurisdiction, subject to written commitments, by the applicants, to the following compensatory safety measures:

- 1. To reduce external dose rates, the radioactive source within the device shall be limited to 100 Ci;
- 2. To limit the risk of failure of a dropped device, the maximum height at which the device is to be operated shall be limited to 5 feet above the barge deck;

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D. W. Chamberlain

- 3. To prevent the device from accidentally falling from the pipe, onto the barge deck, during operation, the device shall be secured to the pipe using robust attachment mechanisms, such as chains, binders, and/or steel springs;
- 4. To minimize personnel exposure, especially to extremities, whenever practical, extension rods, with a minimum length of 3 feet, shall be used. When extension rods are deemed impractical, the reasons must be documented, by the authorized user, prior to commencing radiography operations;
- 5. To document exposure to the extremities, during pipeliner use operators must, in addition to normal whole body dosimetry, wear extremity dosimetry on the wrist of the hand which could receive the highest exposure; and
- 6. This exemption expires on January 31, 2003.

DISCUSSION:

Why the exemption is requested:

The applicants contend that due to the design of the lay barges and the limited space that is available, the use of the pipeliner would allow them to conduct their operations in an efficient and safe manner. They also state that currently there are no other devices that would satisfy the requirement to allow this type of work to be performed as efficiently. According to the applicants, using another type of device would increase the radiation area, require more area to work (which may be unavailable due to the design of the lay barges), and create higher doses to the workers. The NRC has determined that, subject to compensatory safety measures specified above, it will grant the exemptions requested. However, the staff believes that the applicants should explore alternatives that do not require an exemption and therefore, the staff has included a time limit on the exemptions.

Requests for exemptions are considered on a case-by-case basis; however, the information and findings presented in this response can be used to evaluate such requests for similar devices. If they are found to be bounded by these findings, the exemption may be granted without further headquarters review, subject to the same time constraints, i.e. expiring on Jan. 31, 2003.

Prior to authorizing these exemptions an Environmental Assessment (EA) must be prepared, and noticed in the Federal Register (Attachment 5). We will notify you when the EA is published.

Attachments:

- 1. TAR's dated: July 28, 2000; September 12, 2000; and October 11, 2000
- 2. Global X-ray & Testing Corporation Letter, dated July 11, 2000
- 3. Bayou Testing Services Inc. Letter dated August 28, 2000
- 4. Accurate NDE & Inspection L.L.C. Letter, dated September 18, 2000
- 5. Federal Register Notice with Environmental Assessment

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- 5. To prevent the device from accidentally falling from the pipe, onto the barge deck, during operation, the device shall be secured to the pipe using robust attachment mechanisms, such as chains, binders, and/or steel springs;
- 6. To minimize personnel exposure, especially to extremities, whenever practical, extension rods, with a minimum length of 3 feet, shall be used. When extension rods are deemed impractical, the reasons must be documented, by the authorized user, prior to commencing radiography operations;
- 7. To document exposure to the extremities, during pipeliner use operators must, in addition to normal whole body dosimetry, wear extremity dosimetry on the wrist of the hand which could receive the highest exposure; and
- 8. This exemption expires on January 31, 2003.

DISCUSSION:

Why the exemption is requested:

The applicants contend that due to the design of the lay barges and the limited space that is available, the use of the pipeliner would allow them to conduct their operations in an efficient and safe manner. They also state that currently there are no other devices that would satisfy the requirement to allow this type of work to be performed as efficiently. According to the applicants, using another type of device would increase the radiation area, require more area to work (which may be unavailable due to the design of the lay barges), and create higher doses to the workers. The NRC has determined that, subject to compensatory safety measures specified above, it will grant the exemptions requested. However, the staff believes that the applicants should explore alternatives that do not require an exemption and therefore, the staff has included a time limit on the exemptions.

Requests for exemptions are considered on a case-by-case basis; however, the information and findings presented in this response can be used to evaluate such requests for similar devices. If they are found to be bounded by these findings, the exemption may be granted without further headquarters review, subject to the same time constraints, i.e. expiring on Jan. 31, 2003.

Prior to authorizing these exemptions an Environmental Assessment (EA) must be prepared, and noticed in the Federal Register (Attachment 5). We will notify you when the EA is published.

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"See previous concurrence											
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deemed impractical, the reasons must be documented, by the authorized user, prior to commencing radiography operations;

- 5. To document exposure to the extremities, during pipeliner use, operators must, in addition to normal whole body dosimetry, wear extremity dosimetry on the wrist of the hand which could receive the highest exposure; and
- 6. This exemption expires after January 31, 2003.

DISCUSSION:

Why the exemption is requested:

The Applicants contend that due to the design of the lay barges and the limited space that is available, the use of the pipeliner would allow the licensee to conduct their operations in an efficient, and safe manner. The licensee also states that currently there are no other devices that would satisfy the requirement to allow this type of work to be performed as efficiently. Using another type of device would increase the radiation area, require more area to work (which may be unavailable due to the design of the lay barges), and create higher doses to the workers. The NRC has determined that, subject to compensatory safety measures specified above, it will grant the exemptions requested. However, the Staff believes that alternatives should be explored, so it has included a time limit on the exemptions.

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