VOID SHEET

TO: License Fee Management Branch

FROM: Region III

SUBJECT: VOIDED APPLICATION

Control Number: 88850

Applicant: Professional Service Industries, Inc.

Date Voided: 9/6/90

Reason for Void:

Combined c̄ C/N 89981

Signature: [signature] Date: 9/6/90

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

☐ Refund Authorized and processed

☐ No Refund Due

☑ Fee Exempt or Fee Not Required

ML30

Comments:

Log completed ☐

Processed by: CP

9101040366 900906
REG3 LIC30
MATLSLICENSING PDR

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03121
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 19910731
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: PROFESSIONAL SERV. IND., INC.
RECEIVED DATE: 900307
DOCKET NO: 3011906
CONTROL NO.: 388850
LICENSE NO.: 12-16941-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED
AMOUNT: 0
CHECK NO.: 0

3. COMMENTS
Add'l Info to
C/N 86708

SIGNED P. Lovlett
DATE 3-8-90

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED /__/)

1. FEE CATEGORY AND AMOUNT: 3P FEE NOT REQUIRED ~~Add'l info #86708~~

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ✓
RENEWAL
LICENSE

3. OTHER

SIGNED
DATE 3/14/90

317

Professional Service Industries, Inc.
Corporate Office

RECEIVED BY LFMS
Date 3/14/90
Log MAR 16 III
By eet
Date Completed 3/14/90

U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

March 2, 1990

FEE NOT REQUIRED
Add'l info #86709

Attention: Mike McCann
Materials Licensing Section

Re: Control Number 86708
License No. 12-16941-01

Dear Mr. McCann:

In accordance with your telephone reminder yesterday, the following information is provided to address the concerns expressed in Cassandra Frazier's letter dated June 12, 1989, regarding Professional Service Industries' proposed modification to the handles of Campbell Pacific Nuclear "Portaprobe" moisture density gauges (models MC-1, MC-2 & MC-3) in our inventory.

The queries categorically involve two primary concerns regarding the modification; assurance that the manufacturer's shielding provisions have not been compromised, and assurance that the handle has not been weakened.

PSI has not modified the locking pin, trigger or spring responsible for indexing the source rod in the shielded position. The manufacturer-provided *"plunge"* lock was designed to physically block the retraction of the trigger and locking pin; our modification substitutes a padlock shackle positioned to do the same. The objective benefits of the substitution, suggested by Troxler's locks, were for positive visual evidence of locking *(i.e., is the lock present or not?)* and ready availability of an "off-the-shelf" replacement padlock in the event of lock failure *(which has not been the case for the too-frequent replacements of the custom plunge lock.)*

The concern that the handle might be weakened is understandable, if based on the single drawing provided in the initial submittal. To more clearly depict the modification and configuration of original and substituted parts, photographs and an annotated drawing are attached.

Photo Summary:

1 typical breakage at weakest point
2 broken handle, disassembled
3 intact and broken locking pins
4 two handles depicting identical point of failure
5 dissassembled modified handle
6 dissassembled modified handle, alternate view

RECEIVED
MAR 07 1990
REGION III

510 East 22nd Street • Lombard, IL 60148 • Phone: 312/691-1490

CONTROL NO. 88850

In specific response to each item of Ms. Frazier's June 12, 1989 letter, the following is submitted:

1. All operation/instruction text provided to PSI gauge users have been modified to reflect the changes in the CPN Portaprobe handle, specifically addressing the required use *(and locked closure)* of the padlock.

2. Destructive tests of the modified handle demonstrate that the handle is not weakened by the modification; when stressed, the handle breaks where it has "historically" broken. Enclosed photographs evidence these failures. Since no changes have been made in the locking pin, trigger or the source rod indexing for the manufacturer's safe, shielded position, the shielding provided for DOT Spec 7A package qualification has not been affected, either positively or negatively. This is verified after each installation by the performance standard addressed below, in item 3.b.

3.a. The lock hole is drilled to position the padlock shackle immediately behind the internal end of the locking pin, to restrict movement *(while locked)* of the pin and trigger to a tolerance equal-to-or-less-than that provided by the manufacturer. At the time of modification, each observed tolerance has been less than 1/32-inch, and typically approximated 1/64-inch. The submitted diagram was drawn to clearly differentiate each part, and in so doing, the tolerance was not accurately depicted. (As an item of additional information, based on measurements of handles as received from the manufacturer, a retraction of approximately 8/64-inch is required to release the locking pin and extend the source rod from the shielded position.)

b. Assurance that the modified handle has been properly and effectively installed will be provided by the following performance standard: With the padlock installed, the locking pin trigger movement must be less than 1/32-inch, and when manually stressed, the handle *(and attached source rod)* must be positively retained in the uppermost "safe" position, as originally provided by the manufacturer's lock in new condition.

c. The padlock shackle diameter measures 0.2-inch; the modification hole, as drilled, measures 0.25-inch.

The annotated drawing is provided to identify each part in the photographs, and to depict their relationships when assembled. The copper spring retainer is friction-fit and restrained by an aluminum plug, together filling the void left by the removal of the manufacturer's plunge lock. The "C"-clip and allen screw are retained manufacturer's provisions, locking the aluminum plug in place.

Should you require any additional information, or would like to examine a sample modified handle *(or, if deemed worth investigating, the broken handles)*, please do not hesitate to contact me.

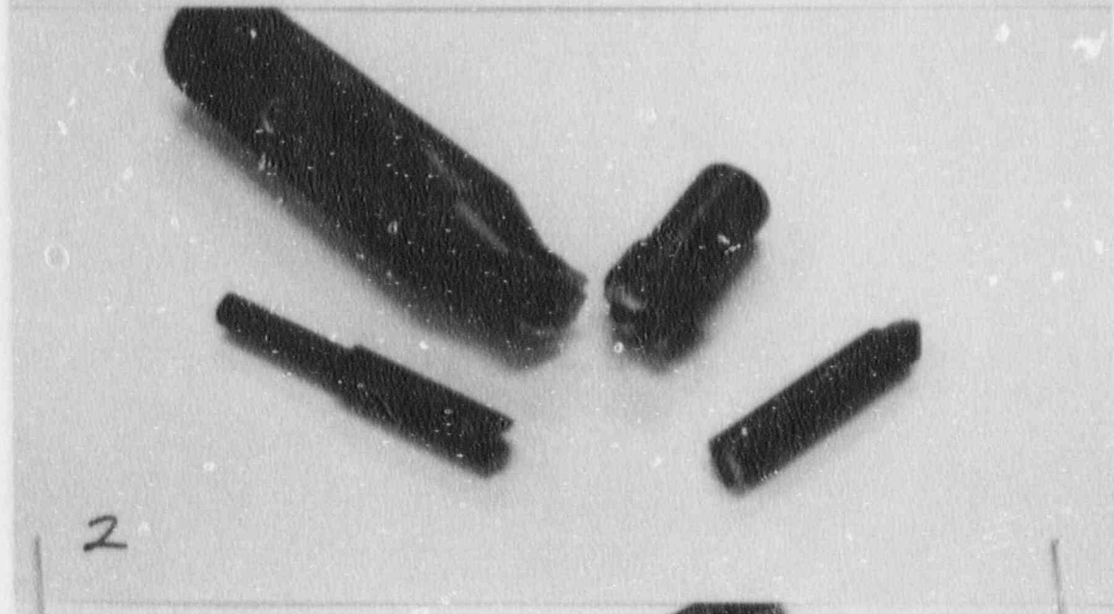
Sincerely,

PROFESSIONAL SERVICE INDUSTRIES, INC.

David S. Price
Radiation Safety Director

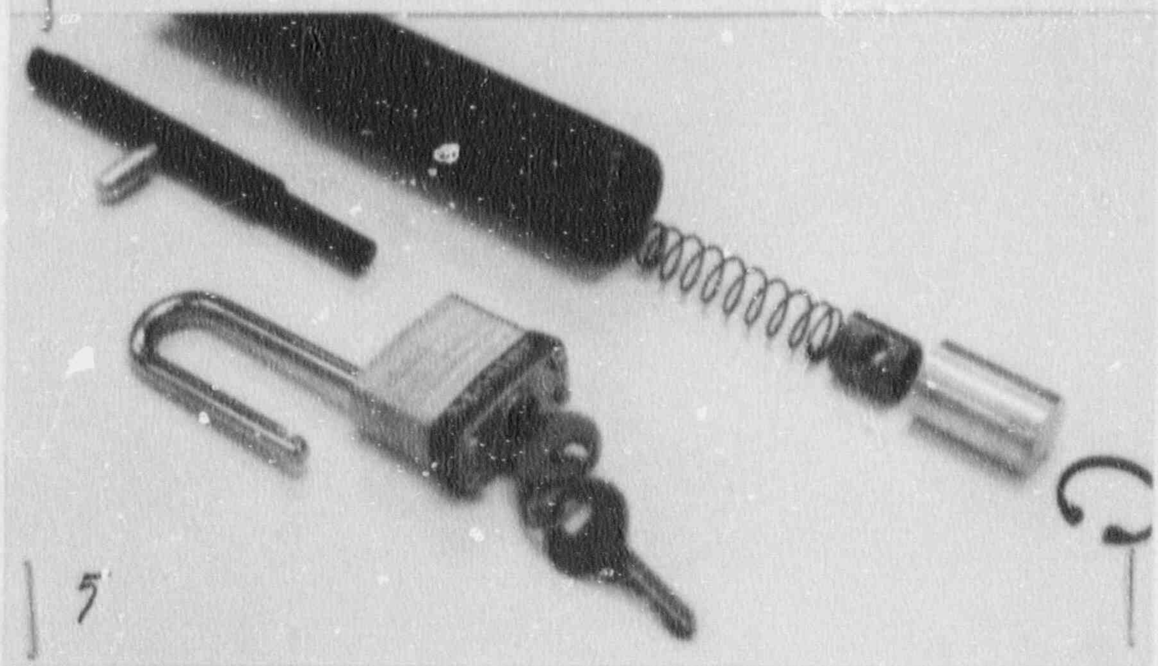
attachments

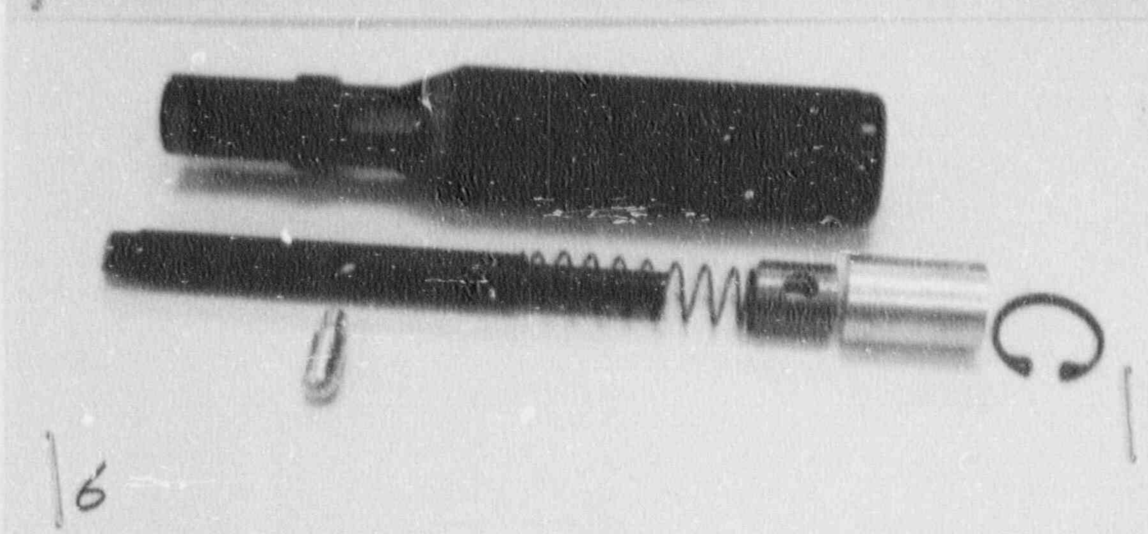
1



2

3





CONTROL NO. 88850