From:

Mary Ann Neel

To:

John Jankovich

Date:

Tue, Aug 31, 1999 10:34 AM

Subject:

STANDARDS

John,

I have placed ANSI N 540-1975 on the Reference Desk for you to pick up at your convenience. ANSI N 540-1975, "Classification of Radioactive Self-Luminous Light Sources," was Reaffirmed and Redesignated in 1989 as: ANSI N 43.4-1975 (R1989). (It is also NBS Handbbook # 116) in the NBS series.

I can't find that we purchased a copy of the Reaffirmed and Redesignated ANSI N 43.4. If we did, it must be lost. Anyhow, the full text of both the N540 and N43.4 standards is exactly the same. If you prefer that I mail it to you, let me know.

Have a good one!!!!

Mary Ann

Mail Envelope Properties (37CBE7ED.93F: 8: 37876)

Subject:

STANDARDS

Creation Date:

Tue, Aug 31, 1999 10:34 AM

From:

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Mary Ann Neel

Created By:

TWFN_DO.TWF2_PO:MAN

Recipients

Post Office TWFN_DO.twf4_po

JPJ2 (John Jankovich)

Domain.Post Office

TWFN_DO.twf4_po

Route

TWFN_DO.twf4_po

Files

Size

Date & Time

MESSAGE

1324

Tuesday, August 31, 1999 10:34 AM

Options

Expiration Date:

Priority:

None Standard

Reply Requested:

No

Return Notification:

None

Concealed Subject:

No

Security:

Standard

Mr. Lawrence Keating, President mb-microtec (USA) P.O. Box 1174 North Tonawanda, NY 14120-9174

Dear Mr. Keating:

This letter is in response to your application dated July 1, 1999, requesting to add Model Nos. 100/4 and 100/5 timepieces to your registration certificate (R-446-D-103-E). We are in the process of evaluating your request. In order to continue our evaluation, we need additional information on the following issues:

- 3. Please submit a technical description of and engineering drawings for the Model 100/5 timepiece. The description and the drawings should be similar to those which you have provided for the Model 100/4 in your application.
- 4. Please provide overview drawings, with major dimensions, for both Model 100/4 and 100/5. The overview drawings should be similar to those in Attachments 1-4 of the registration certificate regarding the other models of your timepieces.

Please submit the requested information within thirty days of the date of this letter. If we have not received complete information within thirty days of the date of this letter, we will consider your application as having been abandoned by you. This is without prejudice to the resubmission of a complete application.

If you have any questions, please contact me at (301) 415-7904 or Ms. Michele Burgess at (301) 415-5868.

Sincerely,
original signed by J. Jankobich
John P. Jankovich, Ph.D., Sr. Engineer
Materials Safety and Inspection Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

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UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001 August 31, 1999

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APPENDIX C

Safety seview J. Jawlovich

	SUMMARY DATA								
Nan									
2 1002	ne and Complete Mailing Address of the Applicant:	Name, Title, and Telephone Number of the Individual to Be Contacted If Additional Information or Clarification Is Neede							
	Newverce Kenting Preside NB-Microtech (UGA) P.D. Box 1174 Toyawanda NY 14/20	by the NRC: Lawrence Keart 1							
	P.O. BOX 1179 144400								
The									
- inc	Applicant is (check one): Custom User	If the Applicant Is Not the Manufacturer, Provide the Name of Complete Mailing Address of the Manufacturer:							
	Manufacturer								
'	Distributor	Freikure 81	ta see						
		CH-3/29 1	lieder wanger						
i	Manufacturer and Distributor		isterland						
If the Com	Applicant Is a Custom User, Provide the Name and plete Mailing Address of the Distributor:	Provide the Name, Complete Mailing Address, and Function of Other Companies Involved:							
Mode	Number: 100/4 100/5	Principal Use Code (see Appendix F):							
Name	Used by the Industry to Identify the Product (e.g.,	For Use by:							
Calib	ography Exposure Device, Teletherapy Source, ration Source, etc.):	Specific Licensees Only							
		General Licensees Only							
		Both Specific and General Licensees							
		Persons Exempt from Licensin	ng						
Leak-	Test Frequency:	Principal Section of the 10 CFR that Applies to the User (e.g.,							
	Periodic Leak-Testing is Not Required	General Licensees under 10 CFR 3	1.5): 32,22						
	6 Months	Radionuclides and Maximum Activ	rities (including loading						
	Attached is justification for a leak test frequency of greater than 6 months	tolerance):							
CERT	IFICATION:								
THE APP	LICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTA	TIONS MADE IN THIS APPLICATION ARE BINDIN	NG UPON THE APPLICANT						
THE APP PREPARI	LICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BI ED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATION RRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.	THAT E OF THE ARREST AND THE PARTY OF THE PA							
WARNIN REPRESE	G: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES INTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATE	IT A CRIMINAL OFFENSE TO MAKE A WILLFUL S AS TO ANY MATTER WITHIN ITS JURISDICTION	LY FALSE STATEMENT OR ON.						
Certify	ring Officer — Typed Name and Title								
Signati	ire:		Date:						

CHECKLI		
Registration Certificate Holder: $NR - 446$ Model: $100/4 + 100/5$. – D –	-103-E
DESCRIPTION	OK/DEF	COMMENTS
DESCRIPTION/CONSTRUCTION		
If registration certificate holder is requesting to register more than one source/device on a certificate, are designs similar enough to do so?	V	
Device/source design with complete engineering drawings (dimensions, tolerances, list of materials)	/	
Assembly methods (screw, welds, etc.); verify integrity	,	L'es previous
Source mounting (size and integrity) and security	,	J //
Is source ANSI classification sufficient (from ANSI N542-1977): Radiography - Unprotected		ANSIN450; TZGC122222
Definition of shutter operation (locked in Off position, not locked in On position), Fail safe, spacing and tolerances	NA	
On-Off indicators (description, qty., location)	NIA	
Safety interlocks, guards, etc. to prevent access to beam or high radiation levels	NA	
Corrosion between unlike materials (e.g., aluminum & steel, depleted uranium & steel, etc.)	/	
Shielding efficiency and integrity		
For medical devices: Was a 510(k) provided? (provide written notification to FDA)	NA	
Well logging sources must be nondispersible and nonsoluble. (see Appendix B for a list of approved well logging sources as of November 1991)	NA	
See "ANSI and Other Standards" list for references for particular source/device designs (e.g. radiography, Brachytherapy, etc.)	/	K

APPENDIX C

CHECKLIST

Registration Certificate Holder:

Model:

DESCRIPTION	OK/DEF	COMMENTS
LABELING	1	
Copy of label	7.	05 6 0
Materials, dimensions, colors (note on registration certificate if labeling is exempt from the color requirements of 10 CFR Part 20)	}	savo as as all
Permanent attachment and location(s) - visible to users?		y was
Contents: Model#, Serial#, Isotope, Activity, Manufacturer, Date of Assay, Trefoil, "CAUTION - RADIOACTIVE MATERIAL" (Depleted Uranium information must be included)	NA	
CONDITIONS OF USE		
Expected working life of the source/device (years, operations)		
Actions to be taken when product reaches end of its working life.	NA	
Maximum allowable temperature, vibration, shock, corrosion, etc. (during use, handling, storage, and transport)	V	
How the device will be used	V	
Meets dose limits of Part 32 for distribution general licensees or persons exempt from licensing	NK	
PROTOTYPE TESTING/HISTORICAL USE		
Tests methods and conditions (for source and device)	V	
Tests results		
Years of use (incidents, failures, etc.)	ì	
Similarities to other sources/devices if they are used as basis.	()	
RADIATION PROFILES	NA	
Survey instrument used (type, window thickness, sensitivity, etc.)		
Conditions: including environments, scatter (product in beam), and use of guards and shields		•
Distance from source/surface (per ANSI 538-1979)		
Shutter Open and Closed/Source Shielded		·
Verify radiation surveys for γ radiation meet inv² law.		
Verify radiation surveys for non- γ radiation have not been calculated using inv ² law.		

Registration Certificate Holder: Model: COMMENTS OK/DEF DESCRIPTION **QUALITY ASSURANCE** Materials, subassemblies, services see privous kniews Assembly methods (screws, welding, etc.) Dimensions and tolerances Activity, radiation levels, leak tests QA Manual and comparison of manual to Regulatory Guide 6.9 INSTALLATION Fixed, portable, movable, fixed installation but portable source housing Inherent shielding, inaccessibility Beam access: size of air gap/opening to beam and use of interlocks, locks, additional shielding or barriers Mounting integrity SAFETY INSTRUCTIONS Operation, maintenance, calibration, damage/failure, specific warnings, leak NA test, and radiation surveys ACCOMPANYING DOCUMENTATION Leak tests results and radiation surveys Transportation documents Operation, maintenance, calibration, damage/failure, specific warnings, leak test, and radiation survey instructions if applicable For Distribution to General Licensees: Verify NRC Regions and Agreement State listing is up-to-date and copies of all pertinent regulations

CHECKLIST

APPENDIX C

CHECKLIST

Manager Committee Co

Registration Certificate Holder:

Model:

	DESCR	LIPTION	OK/DEF	COMMENTS					
	SERV	TCING							
The following activ	ities may be perfor	med by the persons	indicated:						
Activity	by a General Licensee	Only by a Specific Licensee	Will be Offered by the Applicant		·				
Installation									
Relocation									
Maintenance					N.0/				
Repair]					
Source Exchange					' '				
Calibration									
Leak Testing									
Radiation Survey		·)					
Training									
	FOREIGN '	VENDORS			`				
Drop ship .				see section					
Who and where is se	ource installed			see section of					
Leak test and radiati	on surveys			Frankleg O					
QA in the U.S.				- 3	Timepieces "				