CONVE	RSATION RECOR	D	
TYPE: Outgoing Telephone Incoming Telephone x Meeting			
NAME OF PERSON CONTACTED: Dr. John Patterson	ORGANIZATION: Metorex	TIME: 8:45 am	DATE: 12/15/99
SUBJECT: Extension of due date			
SUMMARY:			
Dr. Patterson asked on the telephone, extend the due date of Metorex's respo Metorex will respond by the end of Dec gave him verbal approval on the teleph	onse to NRC,s deficienc ember 1999, or by Janu	y letter. He in	dicated that
extend the due date of Metorex's respo Metorex will respond by the end of Dec	onse to NRC,s deficienc ember 1999, or by Janu	y letter. He in	dicated that
extend the due date of Metorex's response Metorex will respond by the end of Dec gave him verbal approval on the teleph ACTION REQUIRED:	onse to NRC,s deficienc ember 1999, or by Janu	y letter. He in	dicated that

NMSS ØZ Public

Safety Review 8/26/99 JPJ

#### **SUMMARY DATA**

Namo	e and Complete Mailing Address of the Applicant: Metorex SSD - 99-47	Name, Title, and Telephone Number of the Individual to Be Contacted If Additional Information or Clarification Is Needed by the NRC: $\int Refersor609 - 406 - 9000$	
The A	Applicant is (check one):	If the Applicant Is Not the Manufacturer, Provide the Name and	
	Custom User	Complete Mailing Address of the Manufacturer:	
	Manufacturer	Q Q B	
	Distributor	40 change	
	Manufacturer and Distributor		
	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:	
	NA	us change	
Mode	Number: SIPS Robe, NR-0701-D-104-B	Principal Use Code (see Appendix F):	
	e Used by the Industry to Identify the Product (e.g.,	For Use by:	
~	ography Exposure Device, Teletherapy Source, ration Source, etc.):	Specific Licensees Only	
	a ce and yzer	General Licensees Only	
X-	- vay foures cence and per	Both Specific and General Licensees	
V		Persons Exempt from Licensing	
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 31.5):	
~	6 Months	Radionuclides and Maximum Activities (including loading	
	Attached is justification for a leak test frequency of greater than 6 months	tolerance): 40 change	

#### **CERTIFICATION:**

THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30 AND 32 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

#### Certifying Officer - Typed Name and Title

#### Signature:

Date:

# **Registration Certificate Holder:**

# Model:

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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?		
Device/source design with complete engineering drawings (dimensions, tolerances, list of materials)		def, question
Assembly methods (screw, welds, etc.); verify integrity		
Source mounting (size and integrity) and security		def question
Is source ANSI classification sufficient (from ANSI N542-1977): Radiography - Unprotected		no change
Definition of shutter operation (locked in Off position, not locked in On position), Fail safe, spacing and tolerances		)
On-Off indicators (description, qty., location)		
Safety interlocks, guards, etc. to prevent access to beam or high radiation levels		, no change
Corrosion between unlike materials (e.g., aluminum & steel, depleted uranium & steel, etc.)		
Shielding efficiency and integrity		def, question
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.)		no change

# CHECKLIST

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# **Registration Certificate Holder:**

DESCRIPTION	OK/DEF	COMMENTS
LABELING		
Copy of label		<b> </b>
Materials, dimensions, colors (note on registration certificate if labeling is exempt from the color requirements of 10 CFR Part 20)		0
Permanent attachment and location(s) - visible to users?		(no dange -
Contents: Model#, Serial#, Isotope, Activity, Manufacturer, Date of Assay, Trefoil, "CAUTION - RADIOACTIVE MATERIAL" (Depleted Uranium information must be included)		0
CONDITIONS OF USE		
Expected working life of the source/device (years, operations)		~
Actions to be taken when product reaches end of its working life.		
Maximum allowable temperature, vibration, shock, corrosion, etc. (during use, handling, storage, and transport)		Juo change
How the device will be used	1	fue c
Meets dose limits of Part 32 for distribution general licensees or persons exempt from licensing		
PROTOTYPE TESTING/HISTORICAL USE		
Tests methods and conditions (for source and device)		100
Tests results		rdef. question
Years of use (incidents, failures, etc.)		us champe
Similarities to other sources/devices if they are used as basis.	XIA	
RADIATION PROFILES		
Survey instrument used (type, window thickness, sensitivity, etc.)		
Conditions: including environments, scatter (product in beam), and use of guards and shields		def. question
Distance from source/surface (per ANSI 538-1979)		
Shutter Open and Closed/Source Shielded		def. question
Verify radiation surveys for γ radiation meet inv <sup>2</sup> law.		
Verify radiation surveys for non- $\gamma$ radiation have not been calculated using inv <sup>2</sup> law.		· · · · · · · · · · · · · · · · · · ·

#### CHECKLIST **Registration Certificate Holder:** Model: COMMENTS **OK/DEF** DESCRIPTION **QUALITY ASSURANCE** Materials, subassemblies, services Assembly methods (screws, welding, etc.) wo-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 tto Beam access: size of air gap/opening to beam and use of interlocks, locks, additional shielding or barriers Mounting integrity SAFETY INSTRUCTIONS no chan Pe Operation, maintenance, calibration, damage/failure, specific warnings, leak test, and radiation surveys ACCOMPANYING DOCUMENTATION Leak tests results and radiation surveys Transportation documents no change 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

# **Registration Certificate Holder:**

DESCRIPTION				OK/DEF	COMMENTS
SERVICING					
The following activ	ities may be perfor	med by the persons i	indicated:		
Activity	by a General Licensee	Only by a Specific Licensee	Will be Offered by the Applicant	]	
Installation				]	
Relocation					
Maintenance					0
Repair	· · · · · · · · · · · · · · · · · · ·				vo change
Source Exchange					1 u u u u
Calibration					
Leak Testing					
Radiation Survey				]	
Training					
	FOREIGN	VENDORS			
Drop ship					
Who and where is source installed				Luo change	
Leak test and radiation surveys					
QA in the U.S.					

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SUMMARY DATA				
Name and Complete Mailing Address of the Applicant: Metorex SSD - 99-47	Name, Title, and Tekephone Number of the Individual to Be Contacted If Additional Information or Clarification Is Needed by the NRC: $\int_{1}^{1} R Hers \mathfrak{S}$ 609 - 406 - 9000			
The Applicant is (check one):	If the Applicant Is Not the Manufacturer, Provide the Name and Complete Mailing Address of the Manufacturer:			
Custom User				
Manufacturer				
Distributor	no change			
Manufacturer and Distributor				
If the Applicant Is a Custom User, Provide the Name and Complete Mailing Address of the Distributor:	Provide the Name, Complete Mailing Address, and Function of Other Companies Involved:			
NR SIPS Probe Model Number: NR-79-D-104-B	HO Marye Principal Use Code (see Appendix F): No Monge			
Model Number: NR-79-D-104-B	Principal Use Code (see Appendix F): No Monge			
Name Used by the Industry to Identify the Product (e.g.,	For Use by:			
Radiography Exposure Device, Teletherapy Source, Calibration Source, etc.):	Specific Licensees Only			
	General Licensees Only			
1. occence anyth	Both Specific and General Licensees			
X-vay floures cence analyzed	Persons Exempt from Licensing			
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 31.5):			
6 Months	Radionuclides and Maximum Activities (including loading			
Attached is justification for a leak test frequency of greater than 6 months	tolerance): UO change			
CERTIFICATION:				

THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30 AND 32 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

#### Certifying Officer - Typed Name and Title

#### Signature:

Date:

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CHECKLIST Registration Certificate Holder: Model: Amendacent, the ilenes where serieur. Were serieur.			
DESCRIPTION	OK/DEF	COMMENTS	
DESCRIPTION/CONSTRUCTION	one	·	
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)	<i>✓</i>		
Assembly methods (screw, welds, etc.); verify integrity		· · · · · · · · · · · · · · · · · · ·	
Source mounting (size and integrity) and security			
Is source ANSI classification sufficient (from ANSI N542-1977): Radiography - Unprotected 43515 Radiography - In Device 43313 Medical - Radiography 32312 Medical - $\gamma$ Teletherapy 53524 $\gamma$ Gauges - Unprotected 43333 $\gamma$ Gauges - In Device 43232 $\beta$ Gauges, Low Energy $\gamma$ Gauges, or X-ray fluorescence 33222 Oil Well Logging 56522 Portable Moist/Density 43333 Neutron Applications 43232 $\gamma$ Irradiators (II, III, IV) 43424 $\gamma$ Irradiators (I) 4323 Static Eliminators 22222 Smoke Detectors 32222	same		
Definition of shutter operation (locked in Off position, not locked in On position), Fail safe, spacing and tolerances	$\checkmark$		
On-Off indicators (description, qty., location)			
Safety interlocks, guards, etc. to prevent access to beam or high radiation levels	$\checkmark$		
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)		·	
Well logging sources must be nondispersible and nonsoluble. (see Appendix B for a list of approved well logging sources as of November 1991)			
See "ANSI and Other Standards" list for references for particular source/device designs (e.g. radiography, Brachytherapy, etc.)			

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## CHECKLIST

# **Registration Certificate Holder:**

DESCRIPTION	OK/DEF	COMMENTS
LABELING		
Copy of label		· · · · · · · · · · · · · · · · · · ·
Materials, dimensions, colors (note on registration certificate if labeling is exempt from the color requirements of 10 CFR Part 20)		Marine (1997) - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997
Permanent attachment and location(s) - visible to users?		······································
Contents: Model#, Serial#, Isotope, Activity, Manufacturer, Date of Assay, Trefoil, "CAUTION - RADIOACTIVE MATERIAL" (Depleted Uranium information must be included)		
CONDITIONS OF USE		·
Expected working life of the source/device (years, operations)		
Actions to be taken when product reaches end of its working life.		······································
Maximum allowable temperature, vibration, shock, corrosion, etc. (during use, handling, storage, and transport)		
How the device will be used		
Meets dose limits of Part 32 for distribution general licensees or persons exempt from licensing		
PROTOTYPE TESTING/HISTORICAL USE		······································
Tests methods and conditions (for source and device)		
Tests results		
Years of use (incidents, failures, etc.)		
Similarities to other sources/devices if they are used as basis.		
RADIATION PROFILES		
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)	V	
Shutter Open and Closed/Source Shielded		······································
Verify radiation surveys for $\gamma$ radiation meet inv <sup>2</sup> law.		· · · · · · · · · · · · · · · · · · ·
Verify radiation surveys for non- $\gamma$ radiation have not been calculated using inv <sup>2</sup> law.		

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CHECKLIST

## CHECKLIST

# **Registration Certificate Holder:**

DESCRIPTION				OK/DEF	COMMENTS
SERVICING					
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				1	
Repair				1	
Source Exchange					
Calibration					
Leak Testing					
Radiation Survey					
Training					
	FOREIGN	VENDORS			
Drop ship					······································
Who and where is so	ource installed				
Leak test and radiati	on surveys				
QA in the U.S.		• •			