DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration	FROM 21 LASER L	TION FOR A VARI CFR 1040.11(c) F IGHT SHOW, DISI OR DEVICE	FOR A PLAY,	Expira See P DOCH	Approved: OMB No. 0910-0025 ation Date: December 31, 2006 'age 4 for OMB Statement. KET NUMBER
NOTE: No laser light show, projection system, or device application in accordance with 21 CFR 1010.4.	may vary from com	pliance with 21 CFR 1040.1	1(c) in desig	n or us	se without the approval of this
<ol> <li>Check all applicable boxes and type or print the requested information.</li> <li>Submit an original and four (4) copies.</li> </ol>	<b>3</b> . I	<b>UCTIONS</b> Mail your application to the Du Drug Administration, Rm 106/ Enter docket number if assign	1, 5630 Fjshe	gement ors-Land	Branch (HFA-305), Food and a, Rockville, MD 20852.
1. NAME OF COMPANY					
Tribal existance production's (marcus chapman) 2. ADDRESS OF COMPANY (Include ZIP Code)(If P.O.		e actual street address also	.)		
p.o. box 1792 rohnert park,ca.94927 non mail					
3. NAME AND TITLE OF RESPONSIBLE PERSON		4. TELEPHONE NO. (Inclu	ide area cod	<del>e</del> )	5. DATE OF SUBMISSION
marcus chapman producer/electrical eng.ibew lo 6. THE APPLICANT REQUESTS THE VARIANCE TO E		(707) 484-8757 A PERIOD OF 2	VE		11/30/2004 ROM THE DATE OF ISSUE, (In
general, the Agency will approve a variance for only two	years. If a longer per	iod is requested, a justification	n must be att	ached a	as part of the application.)
7.		RIPTION AND USE			
a. LIST NAME AND/OR MODEL NUMBER(S) FOR THE	LASER LIGHT SH	OW(S) AND PROJECTOR	S)		
sa00532, Idm1 and color skip projector b. PRODUCT FOR WHICH A VARIANCE IS REQUEST	ED	I. PRODUCT IS INTEN	DED TO BE	USED	AT ANY ONE LOCATION
A laser display device		More than 15 d			
A projector for a laser light show		More than 5 bu		an 15	days
A laser light show		Less than 5 day		-	
C Other (Specify)	SE OD LOAN TO	g. TOUR IS INTENDED		R	
OTHER LASER LIGHT SHOW PRODUCERS	SE, OR LUAN TO	1-6 months	Jillins		
d. PRODUCT IS INTENDED FOR USE IN A		Less than one	month		
Planetarium or other dome projection structure		Not applicable			
Theater		Other (Specify)			
Hotei/motel ballroom or meeting room		h. PRODUCT UTILIZES		WING	LASER EFFECTS
Store displays Trade show or convention		Front screen pr	-		
Discotheque or night club		Holographic dis	-		
		Multiple reflecti		effect	\$
Indoor arena		Audience scan	ning (Also in	cludes	scanning any accessible
Outdoor arena	* ••	uncontrolled an			
Museum		Reflections from		mirrors	or mirrored
<ul> <li>Outdoor unenclosed area</li> <li>Other (Specify) a variety of indoor and outdoor local</li> </ul>	lions	surfaces (Bean		tina mi	rror balls etc
e. PRODUCT IS INTENDED TO BE USED	10/13	Stationary irrad			
At only one (Fixed) location		Fiber optic proj			, bund, otor
At a variety of (Tour) locations		Fog, smoke, or		ring en	hancement effects
Other (Specify) At a variety of venue's for indian las	er animation	Other (Specify)			
8.		ATION LEVELS	1		
LASER MEDIUM (Ar, He-Ne, etc.)	WAVE LE	NGTHS (nm)		PEA	K POWER (watts)
Ar,Kr,He-Ne,yagx2diode 400	nm threw 800nm		1 to 40 wa	atts va	riable controled power output
9. IF ANY LASER RADIATION IS PULSED OR SCANNED	, GIVE THE PULSE	DURATION AND RATE AN	L ND SCANNIN	IG FRE	EQUENCY AND AMPLITUDE
Scanning band width from dc to 5KHz modulatio					
		<b>.</b>			
			#		
<ol> <li>REASON FOR REQUESTING VARIANCE</li> <li>Compliance with the limits of 21 CFR 1040.11(c limit the output power to the extent that the desited of the extent that the extent that the desited of the extent that the desited of the extent that the desited of the extent that the extent that the desited of the extent that the extent that the desited of the extent that the extent that the desited of the extent that the desited of the extent that the extent the extent that that the extent that that the extent that</li></ol>	:) would restrict the i red effects would no	ntended use of the product of be sufficiently visible	because con	nplianc	e would
C Other or additional explanation (Specify)					
FORM FDA 3147 (12/03)	PREVIOUS EDIT	ION IS OBSOLETE	0		PAGE 1 OF 4 PAGES
					<i>b</i> 0

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VAR]

11.	ANNER IN WHICH IT IS PROPOSED TO DEVIATE FROM THE REQUIREMENTS OF THE APPLICABLE STANDARD It is proposed to deviate from the provisions of 21 CFR 1040.11(c) in that the accessible emission level would exceed the accessible emission limits specified in 21 CFR 1040.11(c).	
	It is proposed to deviate from the provisions of 21 CFR 1040.11(c) as follows:	
12	ADVANTAGES TO BE DERIVED FROM SUCH DEVIATION	
14.	Laser light shows and displays are accepted popular media in entertainment and the arts. Use of power levels in excess of the limits imposed by 21 CFR 1040.11(c) is necessary to achieve the required effects in these media.	
	C Other or additional advantages (describe and explain).	
		[
40		H
13.	EXPLAIN THE ALTERNATE MEANS OF RADIATION PROTECTION TO BE PROVIDED. (Check as many boxes as apply. In item 14 "Rema ustify any boxes not checked, using additional sheets as necessary. State any other means of radiation protection that will be used.)	irks,"
	In I all laser products, systems, shows, and projectors will be certified to comply with 21 CFR 1040.10 and the conditions of this variance and be reported as required by 21 CFR 1002.10 AND 1002.11 using the reporting guides provided for such purpose. These actions will be accomplished prior to any introduction into commerce.	nd will
	Effects not specifically indicated in this variance application will not be performed. No other effects will be added until an amendment to t variance has been obtained and the required reports or supplements, as applicable, have been submitted.	the
	. I Scanning, projection, or reflection of laser and collateral radiation (Light show radiation) into audience or other accessible uncontrolled a will not be permitted except for diffuse reflections produced by the atmosphere, added atmospheric scattering media, and target screens	ireas 5.
	I. Z Laser radiation levels in excess of the limits of Class I will not be permitted at any point less than 3.0 meters above any surface upon wh persons other than operators, performers, or employees are permitted to stand or 2.5 meters below or in lateral separation from any plac where such persons are permitted to be. Operators, performers, and employees will not be required or allowed to view radiation above the limits of Class I or Class I or be exposed to radiation above the limits specified in 21 CFR 1040.11(c).	ce
	Any product which relies on scanning to meet access, exposure, or product class limits will incorporate a scanning safeguard system wh directly senses scanner motion and which will react fast enough to preclude exceeding the applicable limit.	nich
	I All laser light shows shall be under the direct and personal control of trained, competent operator(s). The operator(s) will:	
	(1) Be an employee of the variance holder who will be responsible for the training and the conduct of the operator;	
	(2) Be located where all beam paths can be directly observed at all times; and	
	(3) Immediately terminate the emission of light show radiation in the event of any unsafe condition; or, for outdoor shows, upon request by any air traffic control officials.	
	. In the maximum laser projector output power will not exceed the level required to obtain the intended effects.	
	In It The projection system (i.e., the projector and all other components used to produce the lighting effects) will be securely mounted or immobilized to prevent unintended movement or misalignment. Beam masking will be provided as an inherent part of the system design prevent overfilling of screens, beam stops, targets, etc.	to
	Laser projectors will not be delivered to any other party under an agreement of sale, lease, or loan unless and until the recipient demons that they have a variance in effect at the time of delivery that permits them to produce laser light shows incorporating such projector(s).	strates
	In addition to the requirements of 21 CFR 1040.10(h), the manufacturer of laser projectors/systems will provide to parties who purchase, or borrow the equipment, adequate users' instructions for safe installation and operation which explain the responsibility of the recipient a independent light show manufacturer to submit the required reports and apply for and obtain a variance from CDRH prior to introduction commerce of any laser light shows.	asan
	. The requirements of 21 CFR 1002.30(a)(1) and (2) will be accomplished through the use of written procedures for setup, alignment, testi and performance of each show. These procedures will be in sufficient detail to ensure compliance with 21 CFR 1040.10, the conditions of variance, and the control of access to radiation areas using the procedures described in the ANSIZ136.1 standard for the safe use of las (American National Standards Institute, 1430 Broadway, New York, NY 10018) or any other equivalent user consensus standard and, with applicable, state or local requirements. Laser radiation areas which can contain radiation levels above the limits specified in 21 CFR 104 will be clearly identified by the posting of warning signs and/or restricting access through physical means (such as pressure switches, ph cells, barriers, guards, etc.). These requirements apply to temporary areas (such as during set up and alignment procedures) and to final permanent areas. The variance holder will retain the records of these procedures and the results of all tests as required by 21 CFR 1002 copy of the variance application, the approval letter, current procedures, and records relating to each particular show will be with the ope or other responsible individual and will be made available for inspection by FDA and other responsible authorities.	of this sers here 0.11(c) hoto l or 2.31. A

I. Madada dat	vance written notification witten and locations clearly and	ill be made as early as possible to appropriate federal, completely identified, and a basic description of the	state, and local authorities providing show itinerary w proposed effects including a statement of the maximu
		notifications will be made, but not necessarily be limite	
(1)	initial and closing dates for reported and accession nu	d Radiological Health, Office of Compliance (HFZ-342 fixed installations and the itinerary for mobile shows. mbers clearly referenced, each notice will include deta detail to confirm compliance with the regulations and t	In addition, unless all aspects of each show have bee ailed descriptions of each show and a listing of all effe
(2)	performances, etc.). If the	inistration (FAA) for any projections into open airspace FAA objects to any laser effects, the objections will be ions cannot be met, the objectionable effects will be d	resolved and any conditions requested by FAA will b
(3)	law will be satisfied and ar	ontrol offices/agencies for all shows to be performed w ny objections raised by local authorities will be resolved for Devices and Radiological Health upon request.)	
14. REMARK	<s< td=""><td></td><td></td></s<>		
dreams	inc. is only assisting us i	ed operators (example:laser dreams inc) are wor in the computer animation and design and safe o I on hard surfaces for animation that can be view	peration of equipment. lasers will not be used di
		CERTIFICATION	
my varia material further	ance application may be de I way. I have submitted an understand that I may be r	formation and statements are true, complete, and com ented or my variance may be revoked if this applicat id will submit all reports required by 21 CFR 1002.1 required by regulation or by the Director, Center for ovaluate and act on this application.	ion is found to be false, misleading or incorrect in a 0 and 1002.11 on the laser equipment and show(s)
15. SIGNATU		16. NAME (Type or Print)	17. TITLE
Mic	- Al	marcus chapman	producer/electrical eng.ibew local 5
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