

**INTERNATIONAL CARGO GEAR BUREAU, INC.**

ICGB WORK SHEET FOR REPORTING TEST AND/OR INSPECTION OF CRANE, TROLLEY EQUIPPED CRANE, DERRICK, OR OTHER MATERIAL HANDLING EQUIPMENT

NOTES: (I) USE FORM ICGB-18(A) FOR SPOUTS, SUCKERS, AND SIMILAR EQUIPMENT

(II) USE CHECK MARKS TO INDICATE SATISFACTORY COMPLETION, OBSERVATION, ETC., AND USE LETTER "D" TO INDICATE DEFECTS TO BE DESCRIBED IN SECTION 17.

(III) ICGB REGISTRATION NO. \_\_\_\_\_

(IV) ICBG LID REGISTRATION NO. \_\_\_\_\_

PURPOSE OF ATTENDANCE: QUIN /ANNUAL /OTHER (EXPLAIN):

<b>1) Certification jurisdiction (check one):</b>	USDL	USCG	OWNER DESIGNATED (specify):
A) If aboard USCG inspected vessel also submit ICGB FORM 12 and record:			Official #
			Port Registry

<b>2) Owners' identification of Crane, Derrick, or other equipment:</b>						
A) Equipment Location:						
B) Being used to:	Handle Cargo	Machinery	Equipment	Hot Metal	Storage	Other

<b>3) Name and Address of Owner:</b>
Attention:
A) ATTACHED ARE PHOTOGRAPHS OF ALL INSPECTED EQUIPMENT AT THE TIME OF THE INSPECTION (with Owners permission)/overall view and 1 or more close-ups, especially for original inspections, damaged or defective components, etc.)

<b>4) Description:</b>	Crane	Derrick	Other (explain):			
A) Remains at Shore-Based Worksite	Changes Worksite		Aboard Barge	At Dry Dock	Shipboard	
	Offshore	Inside Bldg.	Outside	Inside & Outside	Other	
IF SHORE-BASED PROVIDE ICGB FORM 16-F; IF ABOARD BARGE PROVIDE ICGB FORM 16-V						
B) Crane:	Crawler	Locomotive	Rail Gantry	Overhead Travelling Bridge	Rough Terrain	Fixed
Truck	Hammerhead	Wall	JIB	Monorail	Semi Gantry	Pedestal Mounted
Cantilever	Gantry w/Horiz. Boom & Trolley	Portal Crane	Hammerhead Crane	Stiff Leg Derrick	Travel Lifts	
Mfd. By:						
C) Crane/ Derrick:	Model		Serial #		Year Built	
D) Crane Ops from/by:	CAB	Floor	Remote	Automatic	Other	
Powered by:	Diesel	Diesel Electric	Steam	Supplied Elec.	Gas Eng.	Diesel Hydraulic
E) If Derrick, describe:						
(tripod "A" frame mast; single mast w/ swinging boom controlled by vangs, bull wheel, etc.)						

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<b>5) Service status at time of survey:</b>	w/ hook	Clamshell	Magnet
Other means (container lifting frame, etc.)			

<b>6) Boom Length to:</b>	Main Hoist	ft	Aux. Hoist	ft	Whip	ft	Jib	ft	Offset	°/Deg.Ft.	
A) If Telescopic (Hydraulic extensible/retractable) Booms indicate:					Number of Boom sections:						
Min.		ft	Max.		ft	Jib Length		ft	Jib Offset		ft
C) No. of Boom Section:			Other Type (describe):								
NOTICE: ALL OFFSHORE FACILITIES MUST PROVIDE TO THE ICGB OFFICE DOCUMENTED EVIDENCE THAT THE HOOKS OF THE CRANES HAVE BEEN FOUND TO BE FREE OF CRACKS BY MEANS OF MAGNETIC PARTICLE OR OTHER SUITABLE CRACK DETECTING METHODS DURING THIS INSPECTION ALONG WITH THE OWNER'S WARRANTY THAT SUCH EVIDENCE APPLIES TO THE HOOKS THAT WERE IN SERVICE AT THE TIME OF THE ICGB INSPECTION (RE: API SECTION 2C, SECTION 16).											

<b>7) Wire Rope: Advise attending Owner Representative that 29 CFR Ch. XVII 1919.79 of the USDL/OSHA regulations requires that wire rope certificates be in acceptable formats and be available for inspection at time of equipment inspections, in order to avoid an OSHA 72 deficiency report (re: 1919.9e).</b>		
A) <u>Wire Rope Data:</u> WIRE ROPE CERTIFICATES OBSERVED AT WORKSITE:	YES:	NO:

Hoist/ Fall	No of Parts (*)	Dia"	Strands Wires		Grade Super				Core			Lay					Galv.		Remarks/ Defective Wires
			No.	Per.	PS	IPS	EIPS	EIPS	FC	IWRC	Other	RR	RL	LR	LL	ALT	Yes	No	
Main																			
Aux.																			
Whip																			
Trolley																			
Boom (T.L)																			
Boom Pend. (T.L)(**)																			
Jib Ext. Pend																			

(*) No. of parts are number of rope leads supporting load		
(**) When steel connecting rods, chains, etc., are used rather than wire rope, describe:	Dia.	Thickness " x "

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<b>8) TABLE G-6 NUMBER AND SPACING OF "U" BOLT WIRE ROPE CLIPS. Twin base or "U" wire rope clips are not permitted when forming eyes of single fall cargo hooks, cargo wire slings, wire bridles or parallel splices. If "U" bolt wire rope clips are used, are they in accordance with USDL regulations?</b>					
Yes	No	Are Nuts & Saddle on Liveside?	Yes	No	None Used
A) TABLE G-6 OF USDL SECTION 1917.42(c-1)					

IPS Dia. (*)(+)	Drop Forged	Other Handling	Minimum Spacing
1/2"	3	4	3"
5/8"	3	4	3-3/4"
3/4"	4	5	4-1/2"
7/8"	4	5	5-1/4"
1"	4	6	6"

IPS Dia. (*)(+)	Drop Forged	Other Material	Minimum Spacing
1-1/8"	5	6	6-3/4"
1-1/4"	5	7	7-1/2"
1-3/8"	6	7	8-1/4"
1-1/2"	6	8	9"

(\* for diameters not listed, use "U" Clip or Wire Rope Manufacturers specifications  
 (+) for twin base wire rope clips use Clip or Wire Rope Manufacturers specifications

<b>9) If Crane or Derrick, indicate whether or not appropriately equipped according to USDL Reg. 1917.45 &amp; 1918.66 as follows:</b>			
	Yes	No	Remarks
A) Durable rating chart visible to operator?			
B) Operator's controls marked or explanation of?			
C) Boom Angle Indicator? (Corresponding to Rating Chart)			
D) Radius Indicator? (Corresponding to Rating Chart)			
E) Pictorial hand signals posted in Operators View			
F) Do controls automatically return to OFF position unless held in ON position over head bridge & container gantry cranes only?			
G) Capacity indication on both sides of bridge			
H) Capacity indicated on each Fall			
I) Can operator readily see direction of trolley and bridge travel			
J) OPERATOR MANUAL IN OPERATORS CAB			
K) MAINTENANCE LOG OF CRANE			
L) WIND INDICATING DEVICE (after 1983 each rail mounted bridge & portal crane located outside shall be fitted with a wind-indicating device)			
M) INSTRUCTIONS FOR HIGH WIND CONDITIONS SHALL BE POSTED IN OPERATOR CAB			

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<b>10) Additional Safety Devices presented by Owners, Operators, etc., for ICGB inspection and notation of proper working order.</b>											
Check: YES ___ NO ___ OR N/A (NOT APPLICABLE) ___ T.T. = TRAVEL TRUCK											
TROLLEY CRANE/OTHER	YES	NO	N/A	GANTRY/OTHER	YES	NO	N/A		YES	NO	N/A
A) Trolley outreach & backreach slowdowns				J) Anemometer Aud./Vis. Alarm				1) Boom Limit Control Hi-Low			
B) Trolley outreach & backreach stops				K) Anemo. Gage in Operators View				2) Boom Hi-Low Alarm			
C) Trolley outreach & backreach bumpers				L) Auto. Rail Brakes				3) Boom Snubbers			
D) Hoist upper slow-down & stop (inshore)				M) Auto. Rail Clamps				4) Boom Stop			
E) Hoist upper ultimate Stop in & offshore				N) Auto T.T. Wheel Chocks				5) Crane Lock. Device			
F) Hoist lower slow-down & stop (inshore)				O) Are L, M, and N, Coordinated w/ J & K				6) Emerg. Elec. Stop(s)			
G) Hoist upper slow-down & stop (offshore)				P) Manual Rail Brakes				7) Travel Aud./Vis Alarm			
H) Trolley Locking Device				Q) Manual Rail Clamps				8) Windshield Wiper			
I) Operator's Cab Locking Device				R) T.T. Lock Pins				9) Dead Man Controls			
				S) T.T. Alert Bumpers				10) Drum(s) rotation indicator			
				T) T.T. Bumpers				<u>WIRE LIMIT CONTROLS</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
				U) T.T. Stops				a) Boom Hoist			
				V) T.T. Wheel Guards				b) Main Fall			
				W) T.T. Rail Brush Sweeps				c) Auxiliary Fall			
				X) Hurricane Tie Downs				d) Whip Fall			
				Y) Boom Locking Device				e) Other:			
REMARKS/ OTHER SAFETY DEVICES:											

<b>11) If Truck or Crawler Crane, is total weight posted?</b>	YES	NO	Weight	lbs.
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<b>12) A) ROTATE TRACK</b>	Hook Rollers Clearance:	of 1 inch	Not equipped
<b>B) OTHER, TRACK HOOKS/HOOK ROLLERS</b>	Clearance:	of 1 inch	Explain:

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<b>13) PRIMARY AND SECONDARY BRAKES: Indicate functional weight(s) and Rad./Deg./Reach(es) used</b>			
A = AIR, E=ELECTROMAG., EP=ELECT. PLUGGING, H=HYD., M=MECH., S=STEAM, OTHER			
A) Hoists- Brakes & Braking 1910.179(f)(1)(i):	Each independent hoisting unit of a crane, except worm geared hoists, the angle of whose worm is such as to prevent the load from accelerating in the lowering direction, shall in addition to a holding brake, be equipped with control braking means to prevent over speeding [re: USDL/OSHA 1910.179(f)(1)(ii)]. IF FITTED WITH A COUNTER-BALANCE VALVE REFER TO ICGB NOTICE #11-01		
B) Hot Metal Cranes:	Each independent hoisting unit of a crane handling hot metal and having power control braking means, shall be equipped with control braking means, shall be equipped with at least two (2) holding brakes [re: USDL/OSHA 1910.179(f)(2)(vi)].		
<u>Primary Brake(s)</u>		<u>Secondary Brake(s) (if any)</u>	
A) Boom Hoist (T.L.)	#°/r	Boom Hoist (T.L.)	#°/r
B) Main Fall	#°/r	Main Fall	#°/r
C) Aux. Fall	#°/r	Aux. Fall	#°/r
D) Whip Fall	#°/r	Whip Fall	#°/r
E) Trolley/Swing	#°/r	Trolley/Swing	#°/r
F) Travel Trucks	#°/r	Travel Trucks(s)	#°/r
G) Rail	#°/r	Rail	#°/r
H) Other	#°/r	Other	#°/r
REMARKS: (tertiary brakes, eddy braking, drum dogs, etc.)			

<b>14) Is unit equipped with the following:</b>		Load Indicating Device		Weight Moment Device		Overload Protective Device		Not equipped			
A) Mfr. of Display Unit				Mod. #		Ser. #					
B) Load Cell Capacity (lbs.)				Mod. #		Ser. #					
C) Mfr. of Boom Radius/Angle Indicator (Sensor)				Mod. #		Ser. #					
D) Mfr. of Boom Length Indicator (Telescopic only)				Mod. #		Ser. #					
E) LID, WMD, OPD; Calibrated by:				Calib. #		Date					
Accuracy	(+)	%	From	#	To	#	(-)	%	From	To	#
F) Is operating data conspicuously placed?			Yes		No		Remarks:				

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15) Proof Load(s)/Operation with partial load(s) applied at direction of Owner. Delete proof load if only annual examination but indicate what partial load(s) applied and what accuracy check load(s) applied. Include actual and indicate Deg./Rad., boom length, loads and other function data as applicable.									
FALL	BOOM RADIUS FROM C/L ROTATION OF ELEVATION ABOVE See Notes (B) & (C)		ACTUAL BOOM LENGTH (FT) TELESCOPE ONLY	INDICATED BOOM LENGTH (FT) TELESCOPE ONLY SEE NOTE (D)	SLEW ANGLE DEGREES (if any)	WT. MOMENT & OVERLOAD PROTECTIVE DEVICE			
						Slew Alert Lite & Alarm	Slew Danger Lite & Alarm	Alert Lite & Alarm	Danger Alarm
	Functioned At								
	Deg and %	Deg and %				Deg/Rad and %	Deg/Rad and %		
Main									
Main									
Aux									
Aux									
Whip									
Whip									

NOTE: PLEASE INCLUDE IN WHAT DIRECTION CRANE WAS TESTED: (1) OVER FRONT (2) OVER REAR (3) OVERSIDE (4) 360 DEGREES

FALL	BOOM RADIUS FROM C/L ROTATION OF ELEVATION ABOVE HORIZONTAL See Notes (B) & (C)		PROOF LOAD(S) AND LOAD INDICATING DEVICE ACCURACY CHECK LOAD(S) SEE NOTE (A)		OPERATION WITH PARTIAL LOAD	RATED LOADS	CIRCLE ONE: WERE OUTRIGGERS EXTENDED WERE EXTENSIBLE CRAWLERS IN USE DURING TESTING		
			PROOF	LID					
	#ST LT	#ST LT							
	Act. °/R. Indic. °/R.	Act. Weight Indic. Weight	#ST-MT-LT	#ST-MT-LT			YES	NO	NOT EQUIPPED
Main									
Main									
Main									
Aux.									
Aux.									
Whip									
Whip									

Notes:

(\*) MOBILE CRANES PLACED ON BARGES MUST HAVE A LOAD CHART FROM THE MANUFACTURER FOR USE ON A BARGE.

(SEND A COPY IN WITH REPORT)

(\*\*) MOBILE CRANES ON BARGES SHALL BE POSITIVELY SECURED.

(\*\*\*) ALL MOBILE CRANES TO BE LEVEL AND OF FIRM SUPPORTING SURFACE

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\*\*\*PROVIDE ALL INFORMATION "A" TO "D" THAT IS ESSENTIAL TO THE CRANE INSPECTION\*\*\*

A) Means of application of proof load; known weights, water filled tank, other (explain):	
Provided by:	Load Accuracy information if any

If Dynamometer, indicate:	Mfr.	Mod. #	Ser. #	Last Calib. By:
Calibration #			Calibration Date	

USDL/OSHA 29 CFR Reg.Sec.1919.10(d) and 1919.60(c) which require dynamometer calibration within one (1) year of test use date (when dynamometer is not owned by the accredited person). SIX (6) months if owned by accredited person.

B) For Container Handling Cranes with trolley indicate which:	Outreach from Boom Heel Pin:	Backreach from Boom Heel Pin:	Other:
1) For Bridge Cranes with Trolley indicating:	Trolley Travel Distance (ft):	Bridge Gantry Travel Distance (ft):	
C) Tilt/Skewing Device, (powered) used on Container Handling Bridge Type Cranes to fix Spreaders to suit trim/list/heading of vessel;			
Tilted from Horizontal approx.:	° to Left & Right		° Out & Backward
Skewed Horizontal approx.:	° Clockwise & Counter Clockwise		
If equipped with manual controlled tilting device only and it was not demonstrated during inspection, is it in visual good condition?	YES	NO	
TEST LOAD(S) APPLIED (IF ANY)	#		
D) For Telescopic booms with automatic boom length indicator.	Remarks:		

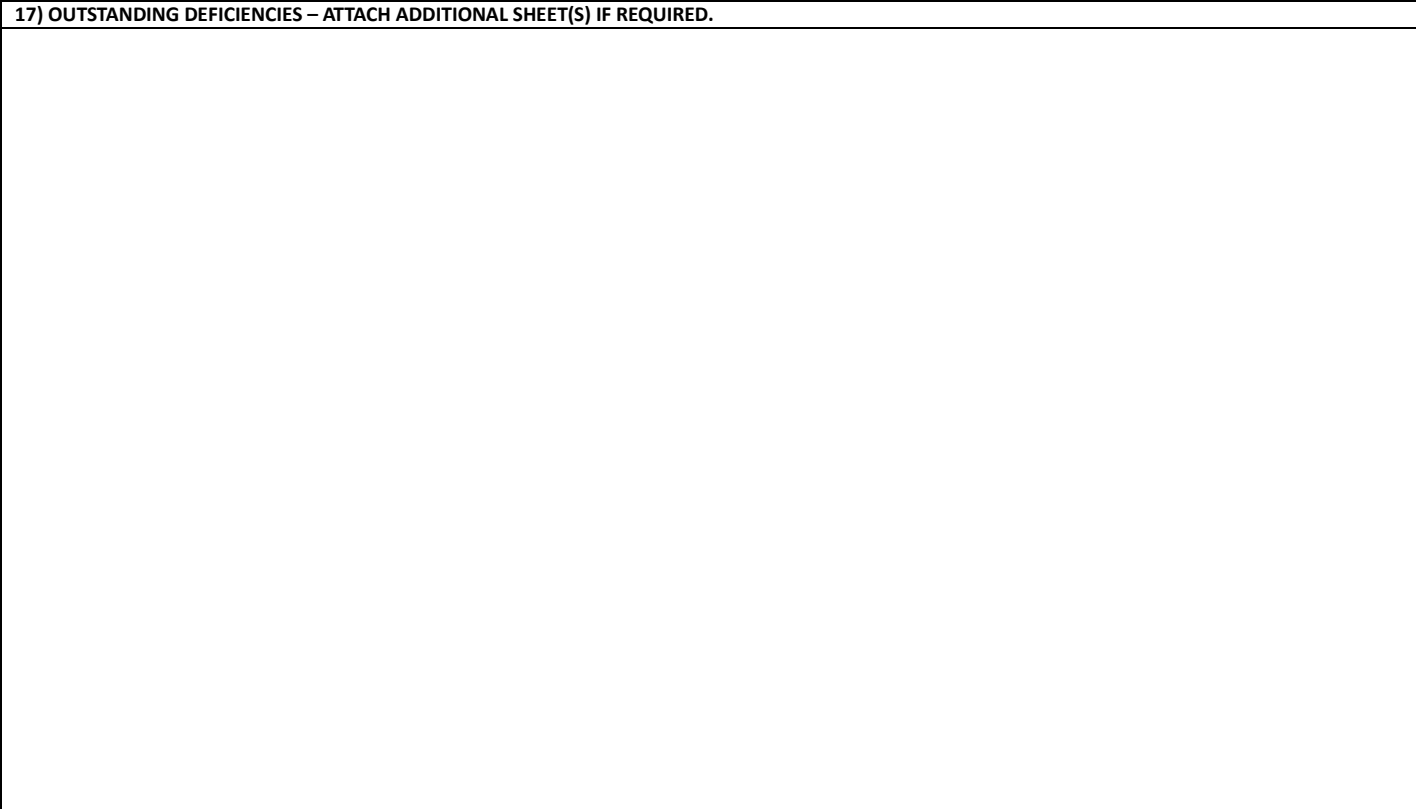
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<b>16) FOR SKETCHES AND/OR ADDITIONAL INFORMATION, ETC. ATTACH ADDITIONAL SHEET(S) IF DESIRED/REQUIRED. THIS INSPECTION INCLUDED CONSIDERATION OF: (CHECKMARK IF IN SATISFACTORY CONDITION OR LETTER "D" FOR DEFECTIVE CONDITION AND DESCRIBE IN SECTION 17. IF NOT EQUIPPED OR NOT APPLICABLE USE DASH (-) )</b>				
A) Boom Heel Assembly		a) Rotate track/wheels/thrust		
B) Lead Blocks/ Fleeting Sheaves		b) Trolley track/Wheels		
C) Boom Tip/ Upper Block/ Sheaves		c) "A" Frame/Mast		
D) Boom Hoist (Upper Bridle) Blocks/ Sheaves		d) Tires/ Wheels		
E) Boom Hoist Blocks/ Sheaves on "A" Frame/ Mast		e) Crawler Assemblies		
F) Wire Rubbing Blocks / Rollers / Guide Sheaves (on boom)		f) GANTRY STRUCTURE:		Legs
		Bridge Support Columns	Sills	Bridge Girders
G) Fall Block(s)		g) Gantry Travel Rails		
H) Container Spreader		h) Gantry Travel Trucks		
I) Clam Shell	Scrap Pan	i) Brake Protection Covers		
J) Magnet		j) Underbody		
K) Grapple		k) Winch Drums		
L) Special Lifting Gear (describe):		l) Drum Rope Clamps		
M) Pad Eyes	Eye Plates	m) Machinery bolting/ foundations		
N) LOOSE GEAR OTHER THAN BLOCKS:		n) Air Leaks		
Hooks	Shackles	Swivels	o) Oil Leaks	
Rings	Chains	Links	p) Water Leaks	
Club Links	Plate Links	Triplates	q) Outriggers	
Wedge Sockets	Connecting Rods	Trunnions	r) Extensible Crawlers	
Other (explain in Section 18)		s) Operating Linkage		
O) Clutches		t) Operating Levers/ Foot Pedals		
P) Frictions		u) Operator's Chair		aa) Machinery Guards
Q) Bearings		v) Cab Windows		bb) Handrails / Safety Chains/ Ropes
R) GEARS:	Open	Enclosed	w) Ladders / Steps	cc) Housekeeping
S) Sprockets and Roller Chains		x) Flooring / Gratings		dd) Emergency Stops
T) Sprockets and Silent Chains		y) Catwalks		ee) Fire Extinguishers
U) Center Pin Assembly		z) Machinery House		ff) Other (explain in section 18)
V) Counterweight(s)				

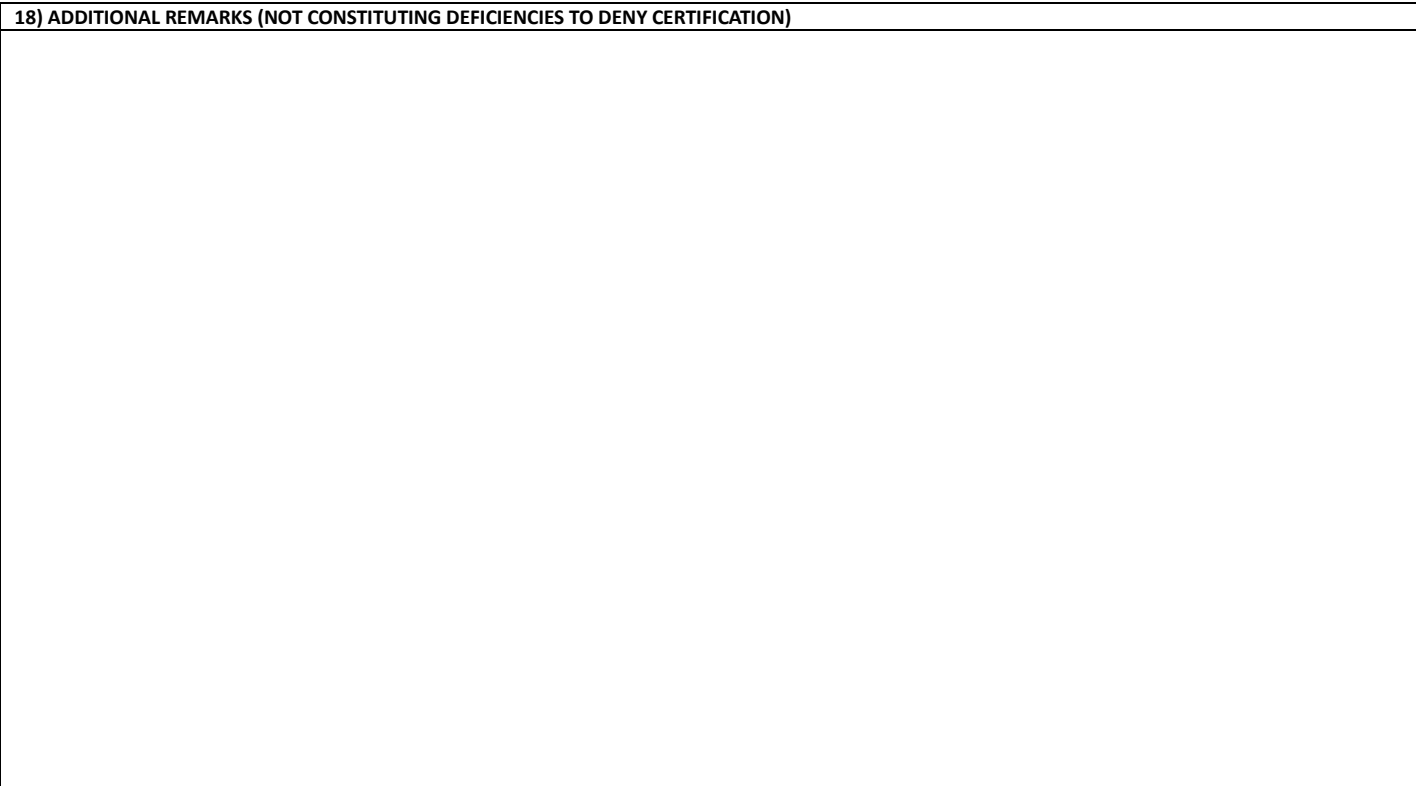


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**17) OUTSTANDING DEFICIENCIES – ATTACH ADDITIONAL SHEET(S) IF REQUIRED.**



**18) ADDITIONAL REMARKS (NOT CONSTITUTING DEFICIENCIES TO DENY CERTIFICATION)**



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**19) CONCLUDING STATEMENT BY THE ATTENDING ICGB APPOINTEE: (strike out parenthetical phrases that are not applicable)**  
 As the attending ICGB Appointee, I hereby report to the ICGB International Headquarters Office that on the \_\_\_\_\_ day of \_\_\_\_\_  
 the above-described device was (load tested by the attending equipment Owner’s representative, and was examined) (examined) by the undersigned; that the  
 (test and examination) (examination) met in all respects with the applicable requirements of 29 CFR (other: \_\_\_\_\_)  
 and the related standards of ICGB; that any deficiencies considered to constitute an unsatisfactory condition to deny certification have been corrected; and that  
 the device has been found to be in compliance in all applicable respects with the governing requirements; except as I may have otherwise indicated herein by  
 listing Outstanding Deficiencies in Section 17, where deficiencies might warrant the ICGB issuance of (a USDL form OSHA 72 in lieu of OSHA 71) (a Report of  
 Survey form 9 in lieu of an ICGB certificate of satisfactory condition).

With regard to the completed ICGB “Local Acknowledgement of Attendance” form:	<u>YES</u>	<u>NO</u>
(a) I have left one (1) copy with the Equipment Owner’s Representative		
(b) I am attaching one (1) copy to this report		
(c) I have kept one copy for my files		

ICGB ATTENDING APPOINTEE STAMP & SIGNATURE  
 WITH DATE OF FINAL ATTENDANCE