

CERTIFICATE OF INSPECTION
~~CRANE~~ [] ~~ELEVATOR~~ []
LIFTING FIXTURE

This is to Certify that the herein described object was inspected by.

NATIONAL ELEVATOR INSPECTION SERVICE, INC. on *OCTOBER 12TH 2004*
DATE

and may be operated at tons not to exceed *1500 LBS*

Name of User: Argonne National Laboratory

Address: 9700 S. Cass Ave., Argonne, IL 60439

Location of crane/elevator: *BLDG 363 #1 FIXTURE HIGH BAY*

Type of crane/elevator: *57 MHZ HYBRID RFQ STRUCTURE*

Mfg. by: *N/A*

Certificate Expires: *ONE TIME*

POST THIS CERTIFICATE CONSPICUOUSLY
NEAR THE CRANE OR ELEVATOR.

Dennis McMillan
INSPECTOR



**NATIONAL ELEVATOR
INSPECTION SERVICES**

Company ARGONNE NATIONAL LABS
Office ARGONNE ILLINOIS 60439
BLDG# 363
TYPE: SPECIAL INSPECTION
Inspector DENNIS McMILLAN #346
Date OCTOBER 12TH 2004

Routine Inspection Report for CRANES AND HOISTS.
LIFTING FIXTURE
Inspectors Signature: Dennis McMILLAN

Assured ARGONNE NATIONAL LABORATORY
Address 9700 SOUTH CASS AVENUE ARGONNE ILLINOIS 60439
Location Inspected ARGONNE SITE.
Maintenance contract with SELF Type Contract N/A
Authority ANSI Cert. Exp. Date ONE TIME Inspections Due ANNUAL Diaried YES
Any new elevators or major alterations Yes No
BUILDING# 401

RISE	<u>N/A</u>					
NUMBER	<u>1 FIXTURE</u>					
LOCATION	<u>BLDG 363</u>					
FREIGHT	<u>LIFTING FIXTURE</u>					
SERIAL#	<u>N/A</u>					
OTHER CAP.	<u>1500 LBS</u>					

TYPE UNIT: 57 MHZ HYBRID RFD STRUCTURE LIFTING FIXTURE

Name and Title of person contacted ED THERES
Inspection accepted by Edmund C. Therres
Full load test date 10-12-04 No load test date N/A

WITNESSED STANDING LOAD TEST PERFORMED OF NEW LIFTING FIXTURE. TEST WAS PERFORMED WITH 2400 LBS ATTACHED TO SUPPORT PLATE SO UNIT IS TESTED AS DESIGNED FOR LOAD. FIXTURE RAISED AND HELD TEST LOAD FOR SUFFICIENT TIME. NO VISUAL SIGNS OF DISTORTION OR DAMAGE. DIMENSIONS AND MEASUREMENTS SAME AFTER TEST AS BEFORE. FIXTURE OK FOR USE AT DERATED CAPACITY OF 1500 LBS.

NOTICE: This report has been compiled through the processes of interview and observation. It is intended to serve only as a guide to the insurance company underwriter. The report reflects only those conditions and practices which could be ascertained through interview and observation at the time of the call by the inspector. It does not represent that hazards and/or exposures not shown hereon do not in fact exist. We do not assume any responsibility for inaccurate or erroneous information, express or implied, given to the inspector or for any other matters beyond our cause or control.

Date: OCTOBER 12TH 2004 Building: 363 LIFTING FIXTURE
Cranes/Hoist ID No.: _____

Type: _____ Bridge _____ Monorail Hoist X Other _____ Rated Capacity: 1500 LB Tons

Inspected By: Dennis McCullough of N.E.T.S Company

Witnessed By: Edward C. Thues of ANL-PFS Crane Maintenance

Testing Requirements per OSHA 1910.179 "Overhead and Gantry Cranes" and DOE "Hoisting and Rigging Manual."

Place check mark if item is okay, or "NA" if not applicable.

Before starting the load test, equipment shall be inspected according to the "Monthly Inspection Report" requirements.

Test loads shall not be more than 125% of the manufacturer's rated load.

The rated load tests for new cranes shall consist of the following operations as minimum requirements:

- OK (a) Hoist the test load a sufficient distance to assure that the load is supported by the LIFTING FIXTURE ~~crane~~ and held by the ~~hoist bracket~~.
- N/A (b) Transport the test load by means of the trolley for the full length of the bridge.
- N/A (c) Transport the test load by means of the bridge for the full length of the runway, in one direction with the trolley as close to the extreme right-hand end of the crane as practical, and in the other direction with the trolley as close to the extreme left-hand end of the crane as practical.
- OK (d) Lower the test load, ~~stopping by the brakes~~.
- N/A (e) The trip setting of hoist-limit devices shall be determined by tests, with an empty hook traveling in increasing speeds up to the maximum speed. The actuating mechanism of the limit device shall be located so that it will trip the device under all conditions in sufficient time to prevent contact of the hook or load block with any part of the trolley or crane.

Extensively repaired or altered cranes shall be tested in accordance with above, insofar as interfering equipment and structures permit. A minimum test shall consist of items (a), (d), and (e) above.

The load test shall not exceed the rated capacity of the crane except that the test weights shall be accurate to within +5%, -0% of stipulated values.

Weight used for load test: 2,700 LBS ~~tons~~.

Rope diameter: N/A.

Hook throat opening dimension: N/A

PFS Crane Maintenance to forward a copy of this to PFS Maintenance Control for inclusion of rated capacity, rope diameter, and hook throat opening dimension into MCRS.

PFS Crane Maintenance to maintain this report until crane removed. Copy to be forwarded to line management of the building in which the unit is located.

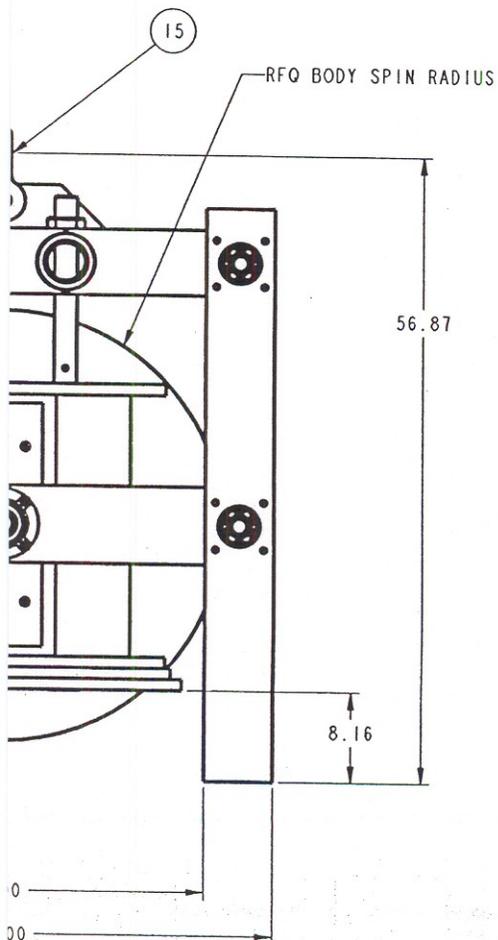
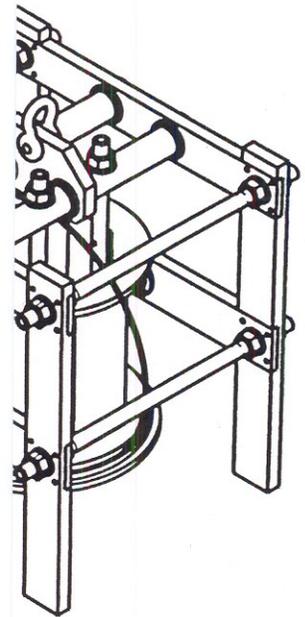
entrusted load test of new lifting fixture unit raised & held for sufficient time; test performed with 2,700 lbs. unit ok for use at derated capacity of 1500 lbs. certificate issued

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REVISIONS				
ZONE	REV	DESCRIPTION	BY	APPROVED DATE



UNIT TESTED 10-12-04 w/ 2700 LBS
 Dennis McMillan DERATED = 1500 LBS

ITEM	DRAWING/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL/SPEC	QTY
25				
24				
23				
22				
21				
20	98025A133	NUT HEX 1/2-13 UNC-2B		8
19	91251A730	1/2-13-4.5" LG SHCS		8
18	92390A391	1/2 DIA x 2 1/2 LG CLEVIS PIN		4
17	94895A045	2-4 1/2 HEX NUT		20
16	98900A326	2" FLATWASHER		20
15	8966T76	LIFTING SHACKLE		1
14	MFC32TC	PILOTED FLANGED BEARING		6
13	G13454	VERTICAL LIFT NUT		4
12	G13453	VERTICAL LIFT SOLID ROD		4
11	G13452	VERTICAL LIFTING TUBE		4
10	G13451	SST BASE PLATE		1
9	G13450	GRAPHITE PLATE		1
8	G13448	LIFTING PLATE		2
7	G13447	PIVOT SHAFT		2
6	G13446	CONNECTING ROD		4
5	G13445	HORIZONTAL TOP PLATE		2
4	G13444	HORIZONTAL BEARING PLATE		2
3	G13443	VERTICAL SUPPORT LEG		4
2	G13442	HORIZONTAL CROSS TUBE		2
1	G13441	LIFTING EYE PLATE		1

PARTS LIST/BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES

DECIMALS .125 .01 .005

ANGULAR .5°

SURFACE ROUGHNESS

REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX. SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST AMS1 844-1 DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST AMS1 714-5

MODEL NAME: G13440

ELECTRONIC FILE NAME: G

DRAWN BY: A. BARCICKOWSKI

CHECKED BY:

DESIGNED BY: A. BARCICKOWSKI

RESPONSIBLE ENGINEER: S. SHARMA

GROUP LEADER: S. SHARMA

APPROVED BY:

RELEASE LEVEL:

MATERIAL:

DATE: 09-JUL-04

DATE: 09-JUL-04

DATE:

DATE:

DATE:

DATE:

DATE:

DATE:

DATE:

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY RARE ISOTOPE ACCELERATOR

TITLE: RARE ISOTOPE ACCELERATOR CONCEPTUAL DESIGN 57 MHZ HYBRID RFO STRUCTURE LIFTING FIXTURE ASSEMBLY

SIZE: 11x17

DRAWING NUMBER: G13440

REV: 00

SCALE: 1:8

DO NOT SCALE DRAWING

SHEET 1 OF 1

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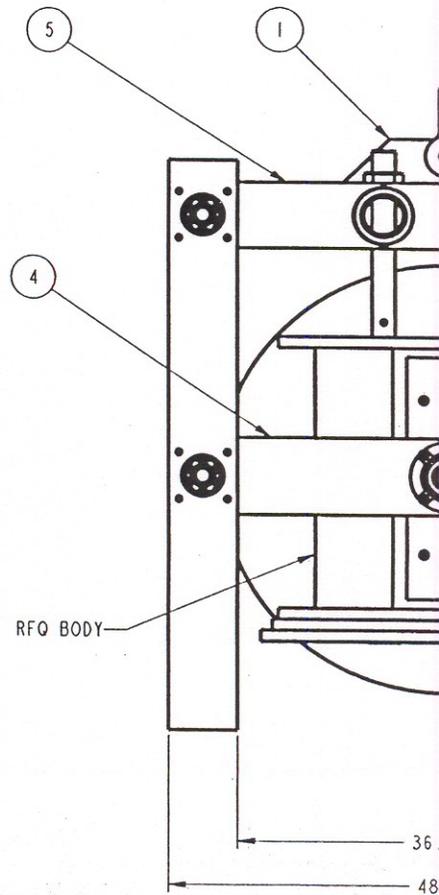
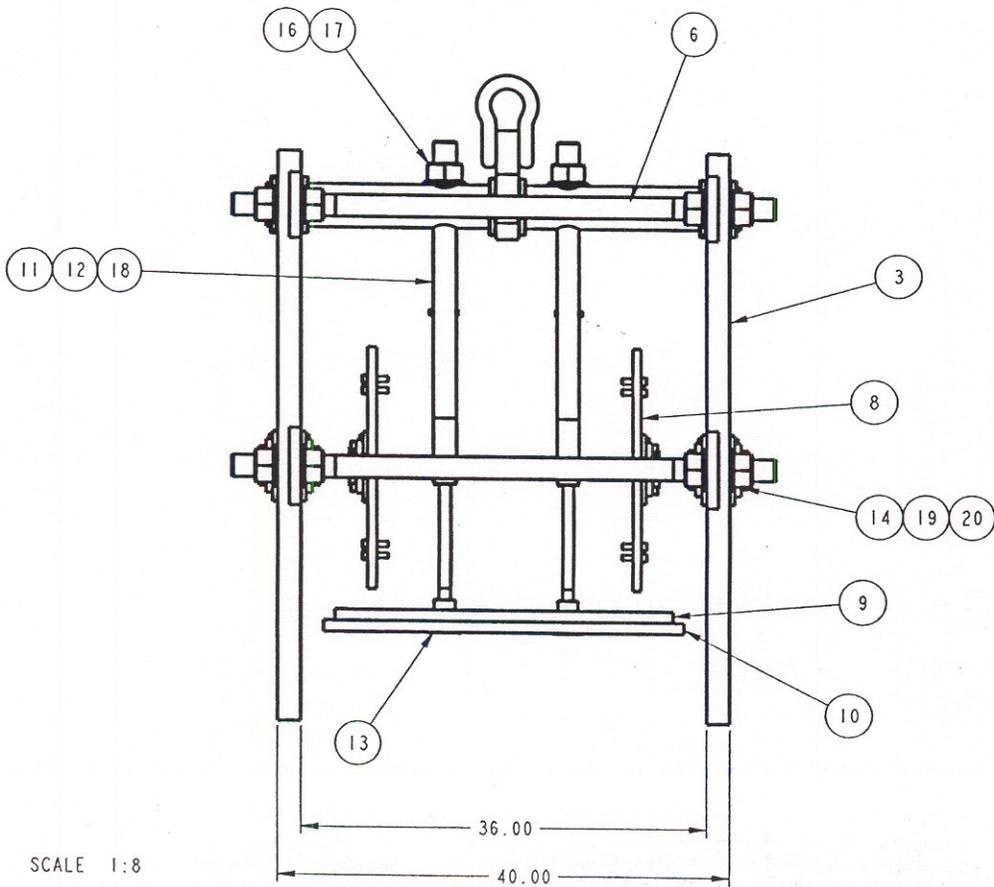
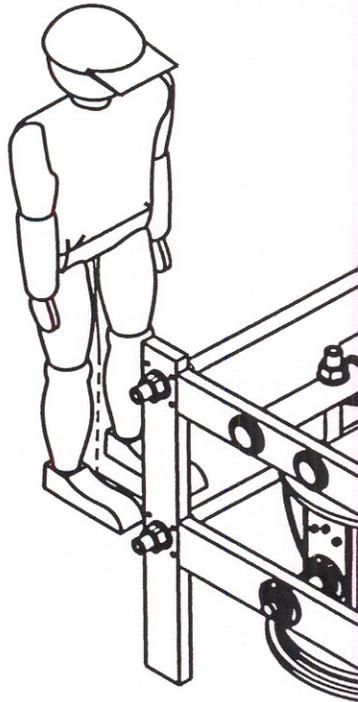
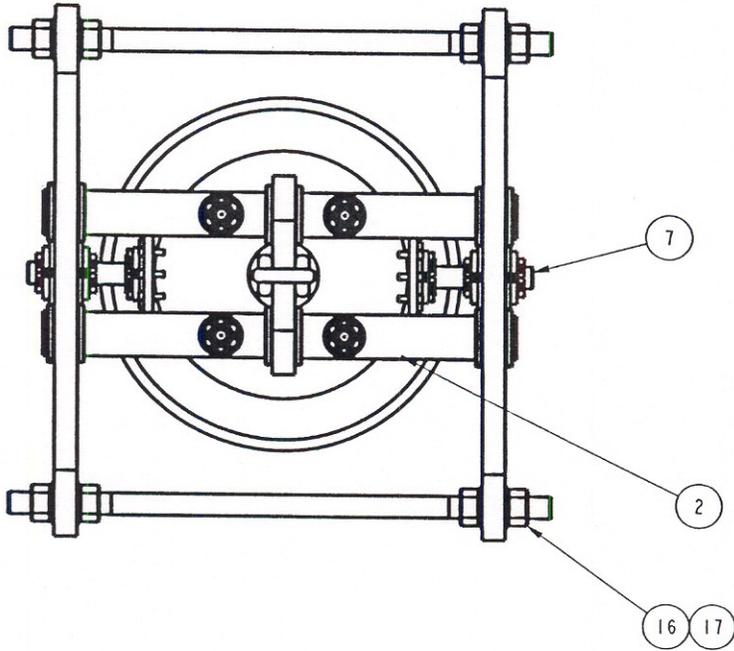
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D

C

B

A



SCALE 1:8