

LIFT PROCEDURE

Procedure Number: D-L-NCSX-997 Rev. 0

TITLE: VVSA Lift Procedure

Note: LIFT DATA SHEETS NEEDED TO PERFORM THIS LIFT

PREPARED BY: John Edwards DATE: 5-8-06
John Edwards-Field Period Supervisor

BRANCH/DIVISION HEAD: Larry Dudek DATE: 5/8/06
Larry Dudek- RLM for NCSX Manufacturing Facilities

PIC: John Edwards DATE: 5/8/06
John Edwards-Field Period Supervisor

LIFT MANAGER: Mike Viola DATE: 5/8/06
Mike Viola Field Period Assembly (FPA) Assembly Manager

PROCEDURE INCLUDES ALL ATTACHMENTS

**Finished Modular Coil Winding Form Lift Procedure
D-L-NCSX-996 Rev.0**

1.0 INTRODUCTION:

- 1.1 This procedure describes the necessary equipment and methods to follow in lifting VVSA .
- 1.2 This lift has been classified as a Critical lift because of the cost and impact to the NCSX schedule if damaged.

2.0 PREREQUISITES:

- 2.1 PIC will attest on the Lift Data Sheet that any installation, disassembly, or removal procedures required to allow the equipment to be moved have been completed.
- 2.2 PPPL Lift Manager and QC shall be notified in advance of a critical lift.
- 2.3 No Critical Lift may be commenced without the presence of a PPPL Lift Manager or his designee unless designated as a repetitive lift by the Lift Engineer.
- 2.4 The lift must be made in accordance with ENG-021 Hoisting and Rigging Program.

3.0 PRECAUTIONS:

- 3.1 The area where lift is being made shall be properly secured so that personnel other than the lift team are allowed access.
- 3.2 All personnel involved in this procedure shall wear hard hats.
- 3.3 All rigging shall be inspected by a qualified rigging specialist (QRS).
- 3.4 The crane operator shall be Critical Lift certified.
- 3.5 Protection for the slings and equipment from sharp edges will be provided.

4.0 PROCEDURE FIELD CHANGES

Procedure field change can be made on site if approved by the PPPL Lift Engineer by working up or using a new Lift Data Sheet.

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5.0 LIFT DATA SHEET INSTRUCTIONS

The attached Lift data sheet provides the specification for the hoisting and rigging aspects of the lift.

6.0 PROCEDURE:

6.1 Horizontal Transport:

- 6.1.1 Use the lifting arrangement identified on the attached Lift Data Sheet; connect the VVSA to the overhead crane.
- 6.1.2 The PIC shall identify the VVSA being transferred and flight path information on Lift Data sheet.
- 6.1.3 Slowly lift the VVSA and transport to the desired location.
- 6.1.4 Lower the VVSA into its final position and remove all lift slings, shackles and chain falls.
- 6.1.5 The VVSA lift and transfer is complete. Attached a copy of completed/signed Lift Data Sheet to back of procedure.

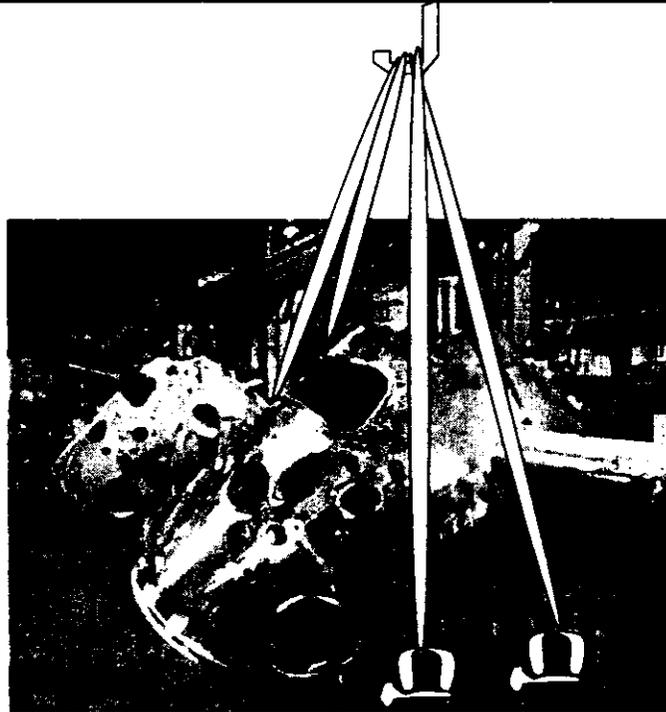
Lift Data Sheet

Attachment 6

LIFT TITLE: VVSA LIFT PROCEDURE LIFT PROCEDURE NO. D-L-NCSX-997 AREA: NCSX CWF	Effective Date: 5/8/06	Date Performed:
	Repetitive Lift Expiration Date:	<i>Mike Vito</i> Approved: LIFT MANAGER

DISASSEMBLY PROCESS COMPLETED (Print and Initial) PIC: _____

PROCEDURE PREREQUISITES COMPLETED (Print and Initial) QC: _____



4 ea. 20'
slings \geq
5300 lb.
cap.
vertical

4 ea. \geq 3/4"
shackles

DESCRIPTION: WEIGHT: 8000 lb. DETERMINED BY: ESTIMATE

Sketch of rigging shall include: Crane Capacity, Hook Load, All Rigging, Lift Height, Flight Plan Sketch of equipment shall include: Dimensions, Bolts Removed, Allowable Tilt

CRANE OPERATOR (print) _____ RIGGING TEAM (print) _____

APPROVED: (Print & initial) _____

QRS (Rigged per sketch) PIC (Equipment ready to lift) LIFT ENGINEER (Qualification/inspection complete)

...PERFORM LIFT.....PERFORM LIFT.....PERFORM LIFT...

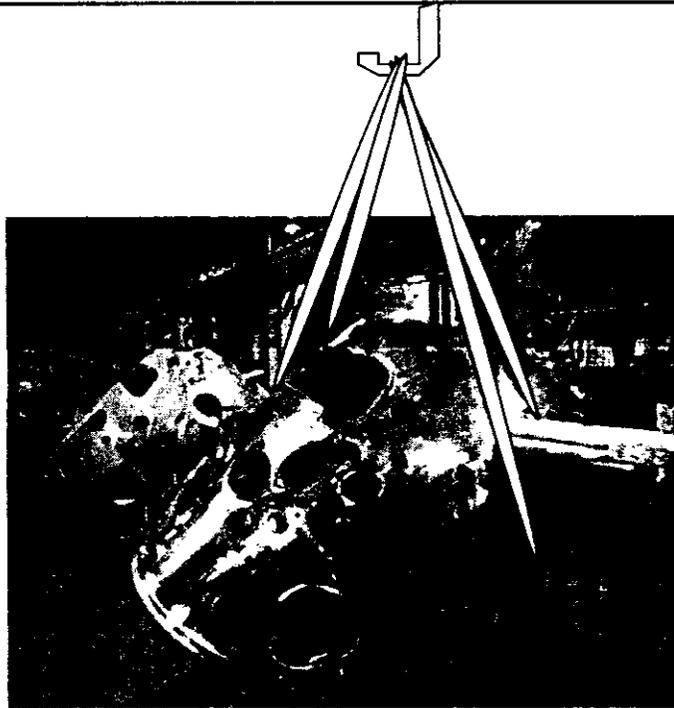
Equipment is secure and rigging may be removed: PIC: _____ Date Performed: _____

Lift Data Sheet Attachment 6

LIFT TITLE: VVSA LIFT PROCEDURE LIFT PROCEDURE NO. D-L-NCSX-997 AREA: NCSX CWF	Effective Date: 5/8/06	Date Performed:
	Repetitive Lift Expiration Date:	Approved: <i>Mike Vito</i> LIFT MANAGER

DISASSEMBLY PROCESS COMPLETED (Print and Initial) PIC: _____

PROCEDURE PREREQUISITES COMPLETED (Print and Initial) QC: _____



2 ea. 20'
slings ≥
10600 lb.
cap. basket

DESCRIPTION: WEIGHT: 8000 lb DETERMINED BY: ESTIMATE

Sketch of rigging shall include: Crane Capacity, Hook Load, All Rigging, Lift Height, Flight Plan Sketch of equipment shall include: Dimensions, Bolts Removed, Allowable Tilt

CRANE OPERATOR _____ RIGGING TEAM (print) _____
(print)

APPROVED: _____
(Print & initial)

QRS _____ PIC _____ LIFT ENGINEER _____
(Rigged per sketch) (Equipment ready to lift) (Qualification/inspection complete)

...PERFORM LIFT.....PERFORM LIFT.....PERFORM LIFT...

Equipment is secure and rigging may be removed: PIC: _____ Date Performed: _____

Lift Data Sheet

Attachment 6

LIFT TITLE: VVSA LIFT PROCEDURE LIFT PROCEDURE NO. D-L-NCSX-997 AREA: NCSX - CWF	Effective Date:	Date Performed:
	Repetitive Lift Expiration Date:	Approved: LIFT MANAGER

DISASSEMBLY PROCESS COMPLETED (Print and Initial) PIC: _____

PROCEDURE PREREQUISITES COMPLETED (Print and Initial) QC: _____



Attach 4
slings \geq
5300 lb.
Cap.
Vertical
with 4 \geq
3/4"
shackles
to lift
points on
VV Stand

DESCRIPTION: WEIGHT: 6170 lbs. DETERMINED BY: Vendor

Sketch of rigging shall include: Crane Capacity, Hook Load, All Rigging, Lift Height, Flight Plan Sketch of equipment shall include: Dimensions, Bolts Removed, Allowable Tilt

CRANE OPERATOR _____ RIGGING TEAM (print) _____
(print)

APPROVED:
(Print & initial) _____

QRS _____ PIC _____ LIFT ENGINEER _____
(Rigged per sketch) (Equipment ready to lift) (Qualification/inspection complete)

...PERFORM LIFT.....PERFORM LIFT.....PERFORM LIFT...

Equipment is secure and rigging may be removed: PIC: _____ Date Performed: _____

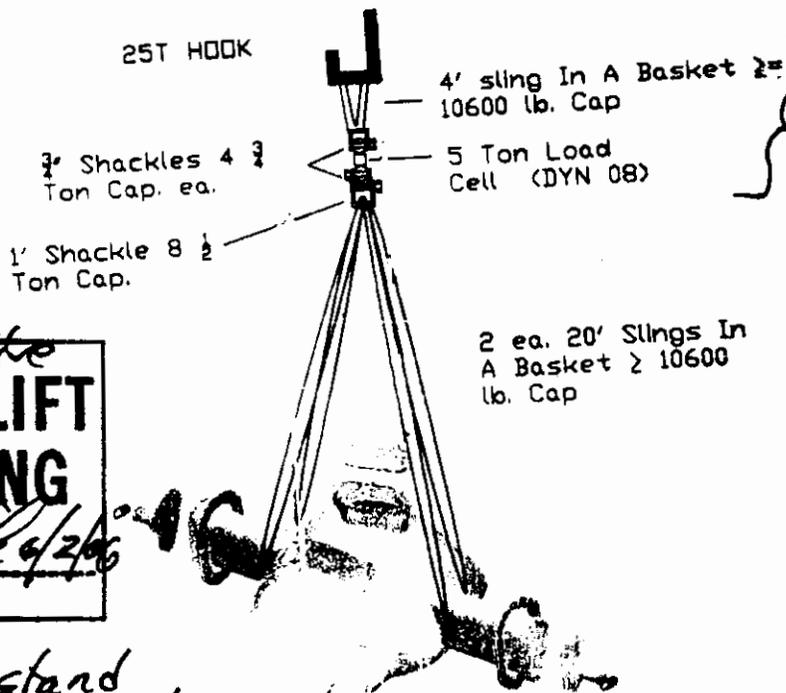
Lift Data Sheet

Attachment 6

LIFT TITLE: VUSA Lift Procedure LIFT PROCEDURE NO. DYNCSX 997 AREA: NCSX 2007	Effective Date: 6/2/06	Date Performed:
	Repetitive Lift Expiration Date: 6/2/08	Approved: <i>Mike Piro</i> LIFT MANAGER

DISASSEMBLY PROCESS COMPLETED (Print and Initial) PIC: _____

PROCEDURE PREREQUISITES COMPLETED (Print and Initial) QC: _____



repetitive
APPROVED LIFT ENGINEERING
Michael Piro 6/2/06

*6250 with stand
3900 without stand*

DESCRIPTION: WEIGHT: _____ DETERMINED BY: _____
Sketch of rigging shall include: Crane Capacity, Hook Load, All Rigging, Lift Height, Flight Plan Sketch of equipment shall include: Dimensions, Bolts Removed, Allowable Tilt

K. Gilton, *J. Hynes*, E. Bush, M. Fernandez
 CRANE OPERATOR (print) _____ RIGGING TEAM (print) _____
 (print) *J. Edwards (when qualified)*
 APPROVED: K. Gilton, _____ M. Fernandez, _____
 (Print & initial) _____
 QRS _____ PIC _____ LIFT ENGINEER _____
 (Rigged per sketch) (equipment ready to lift) (Qualification/inspection complete)

...PERFORM LIFT.....PERFORM LIFT.....PERFORM LIFT...

Equipment is secure and rigging may be removed. PIC _____ Date Performed: _____