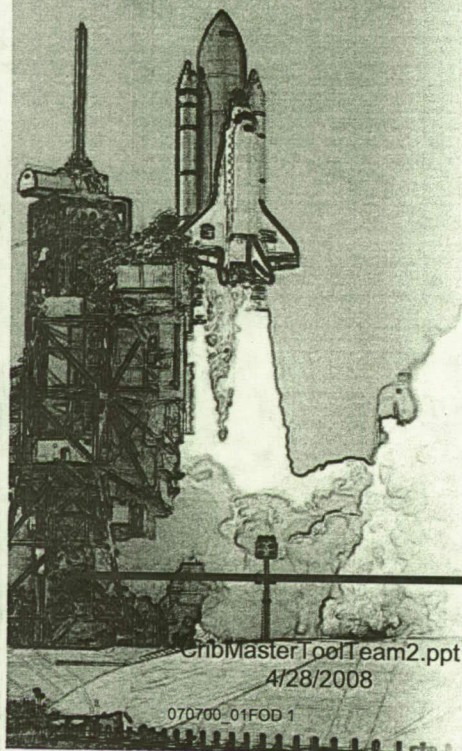


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CribMaster 2008 Conference



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4/28/2008

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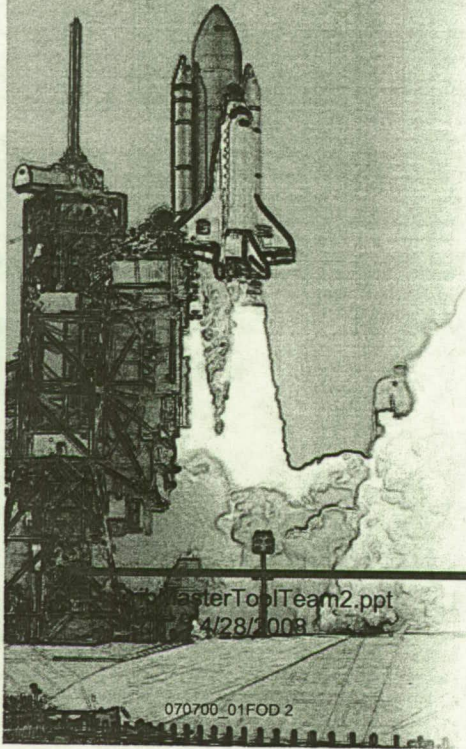
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Shuttle Processing Using CribMaster

Presented by: United Space Alliance, LLC

4/28/2008



MasterToolTeam2.ppt
4/28/2008

070700-01FOD 2

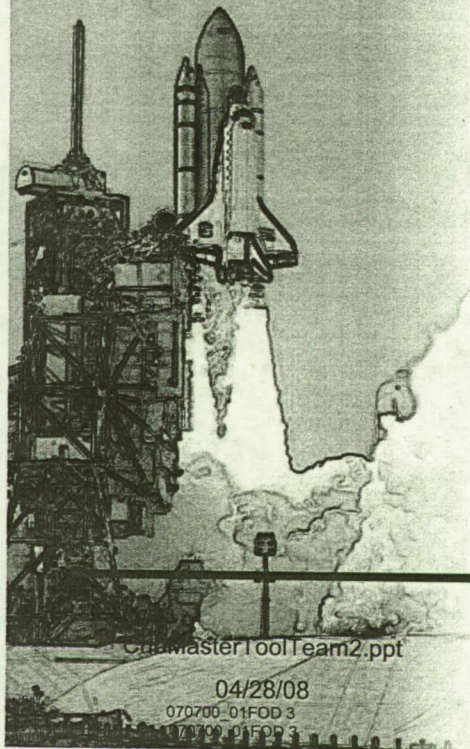
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Scope

Processes at Kennedy Space Center consists of:

- Landing
- Recovery
- Orbiter Processing
- Hypergolic Operations
- Solid Rocket Booster (SRB) Processing/Stacking
- Payloads Integration
- Flight Crew Systems
- Ground Support Equipment (GSE)
- Space Shuttle Main Engines (SSME)
- External Tank (ET) Operations
- Vertical Assembly Building (VAB) Vehicle Integration
- Mobile Launch Platform (MLP)
- Pad Operations
- Flight & Launch Operations



Crewmaster Tool Team2.ppt

04/28/08

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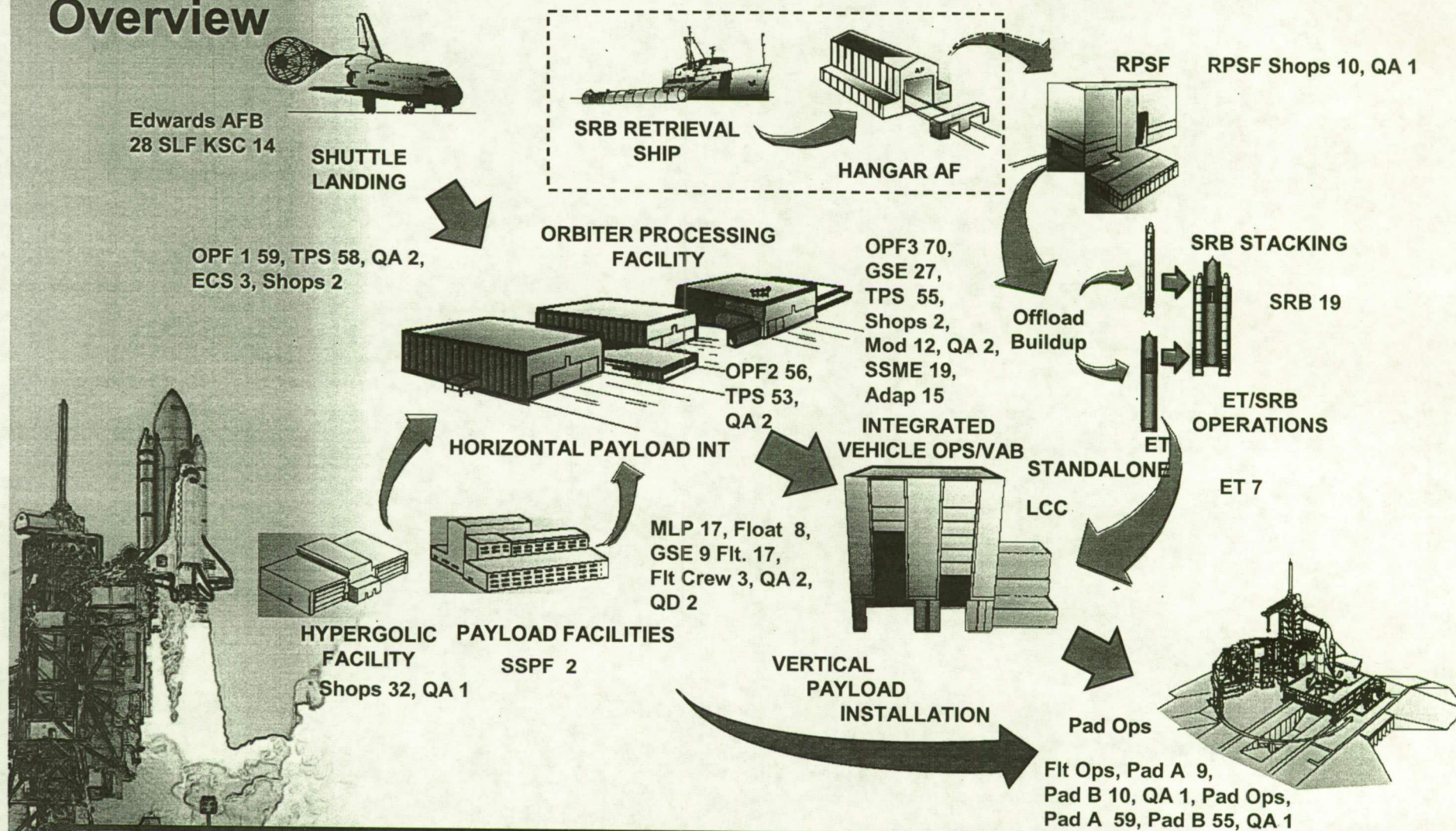
070700-01FOD 3

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Ground Operations Tool Control

Overview



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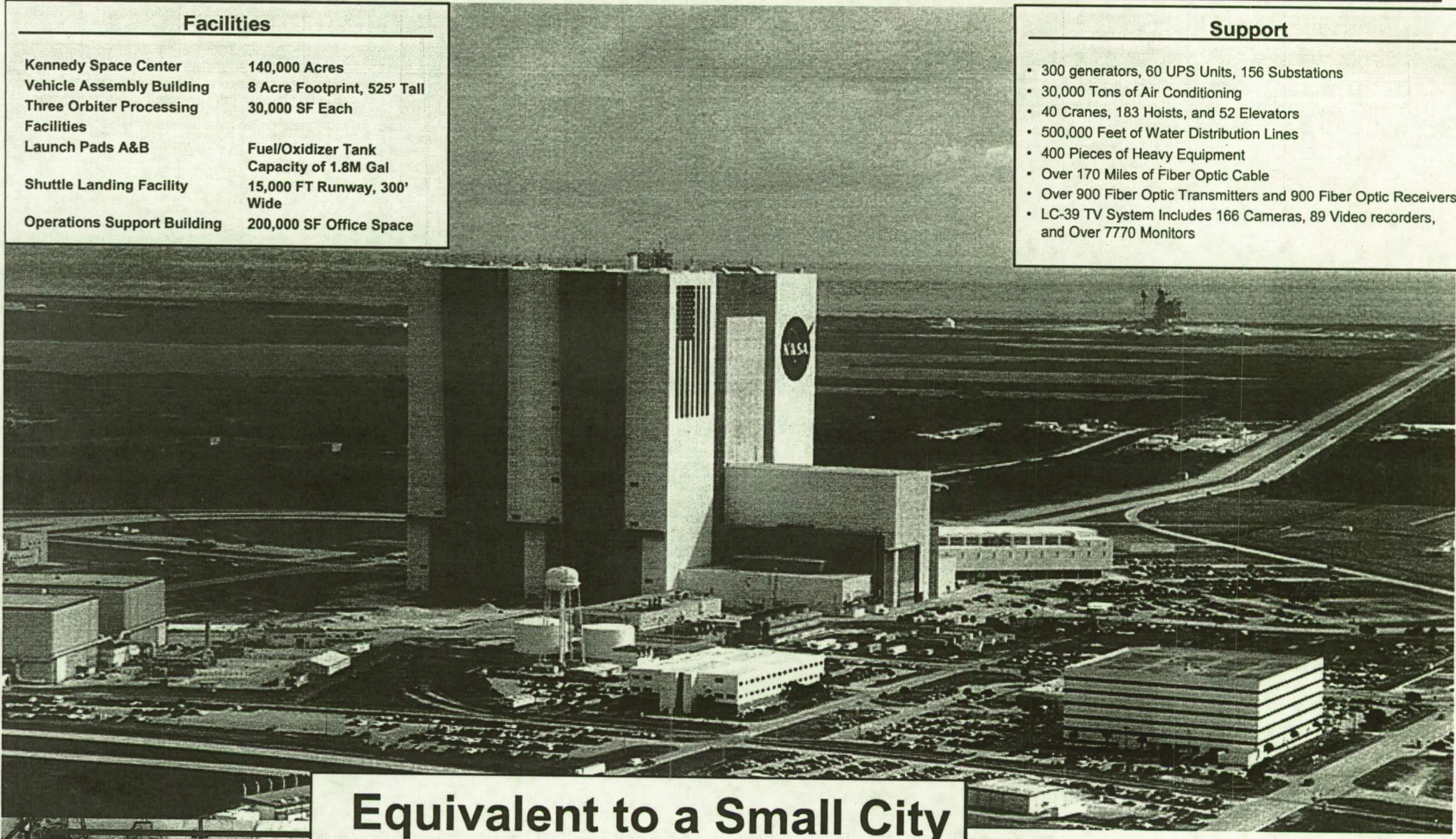
Ground Operations Tool Control

Facilities

| | |
|-------------------------------------|---|
| Kennedy Space Center | 140,000 Acres |
| Vehicle Assembly Building | 8 Acre Footprint, 525' Tall |
| Three Orbiter Processing Facilities | 30,000 SF Each |
| Launch Pads A&B | Fuel/Oxidizer Tank Capacity of 1.8M Gal |
| Shuttle Landing Facility | 15,000 FT Runway, 300' Wide |
| Operations Support Building | 200,000 SF Office Space |

Support

- 300 generators, 60 UPS Units, 156 Substations
- 30,000 Tons of Air Conditioning
- 40 Cranes, 183 Hoists, and 52 Elevators
- 500,000 Feet of Water Distribution Lines
- 400 Pieces of Heavy Equipment
- Over 170 Miles of Fiber Optic Cable
- Over 900 Fiber Optic Transmitters and 900 Fiber Optic Receivers
- LC-39 TV System Includes 166 Cameras, 89 Video recorders, and Over 7770 Monitors



Equivalent to a Small City

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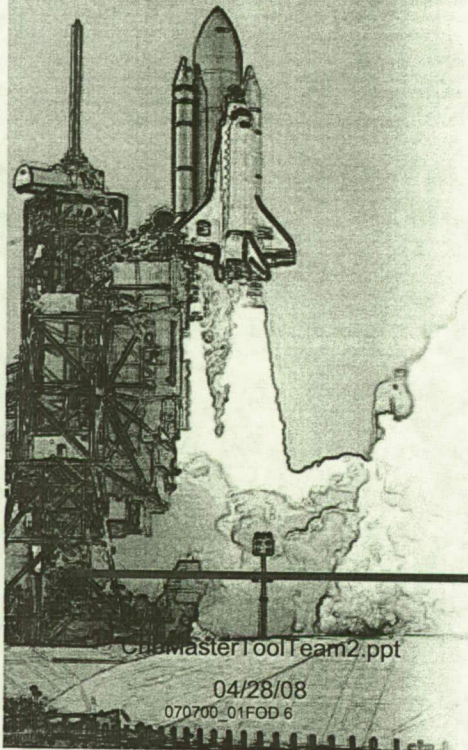
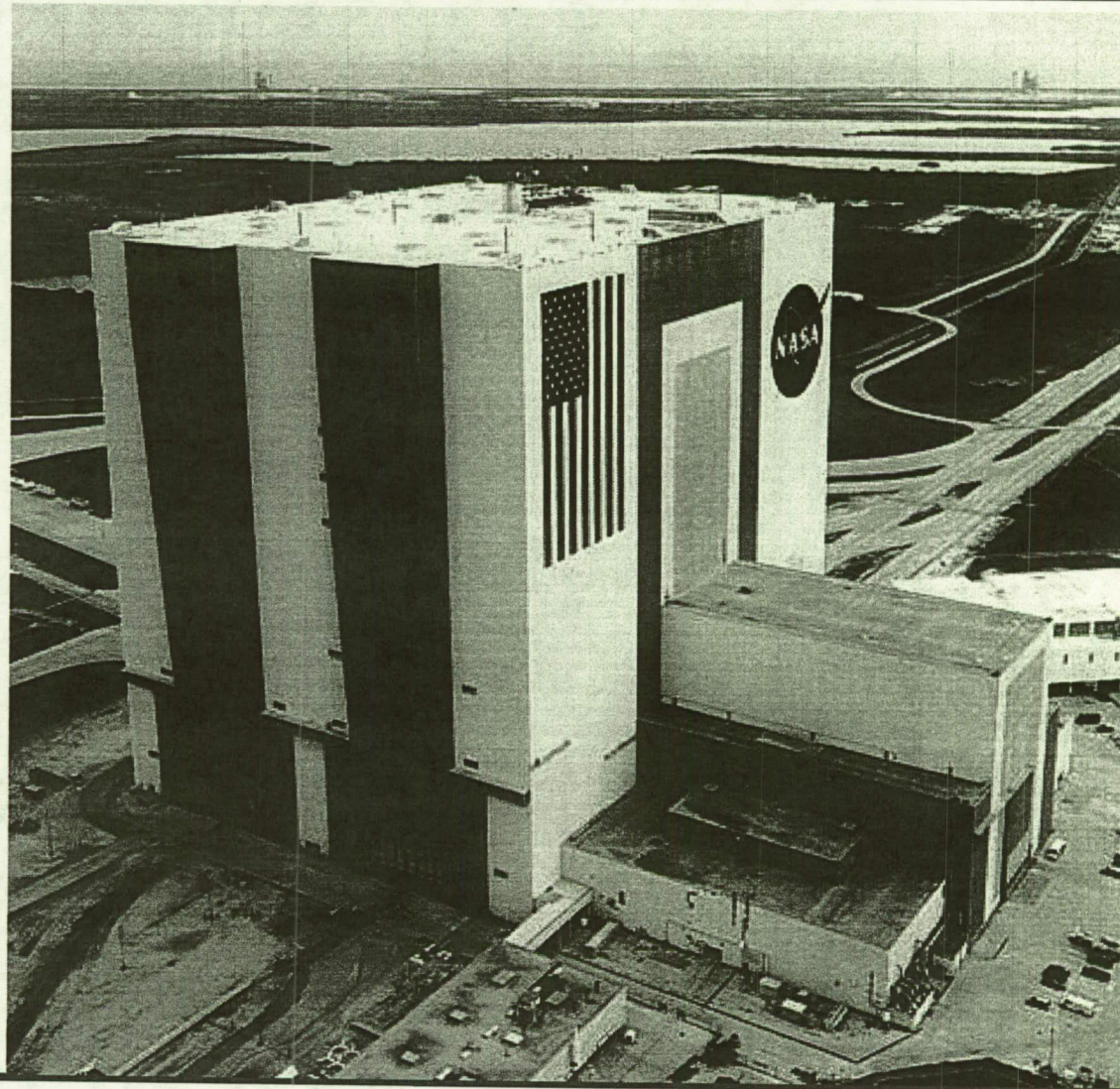
CustomerToolTeam2.ppt

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Ground Operations Tool Control

VAB, the hub of the SRB and ET Operations where the Shuttle ET and SRB are mated and stacked on the MLP.



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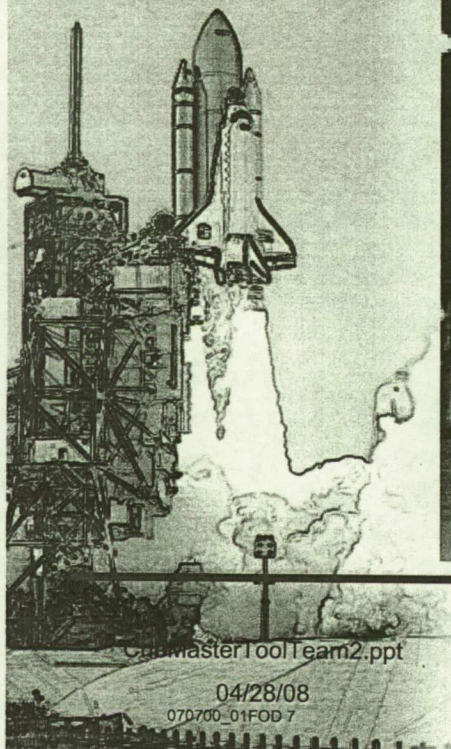
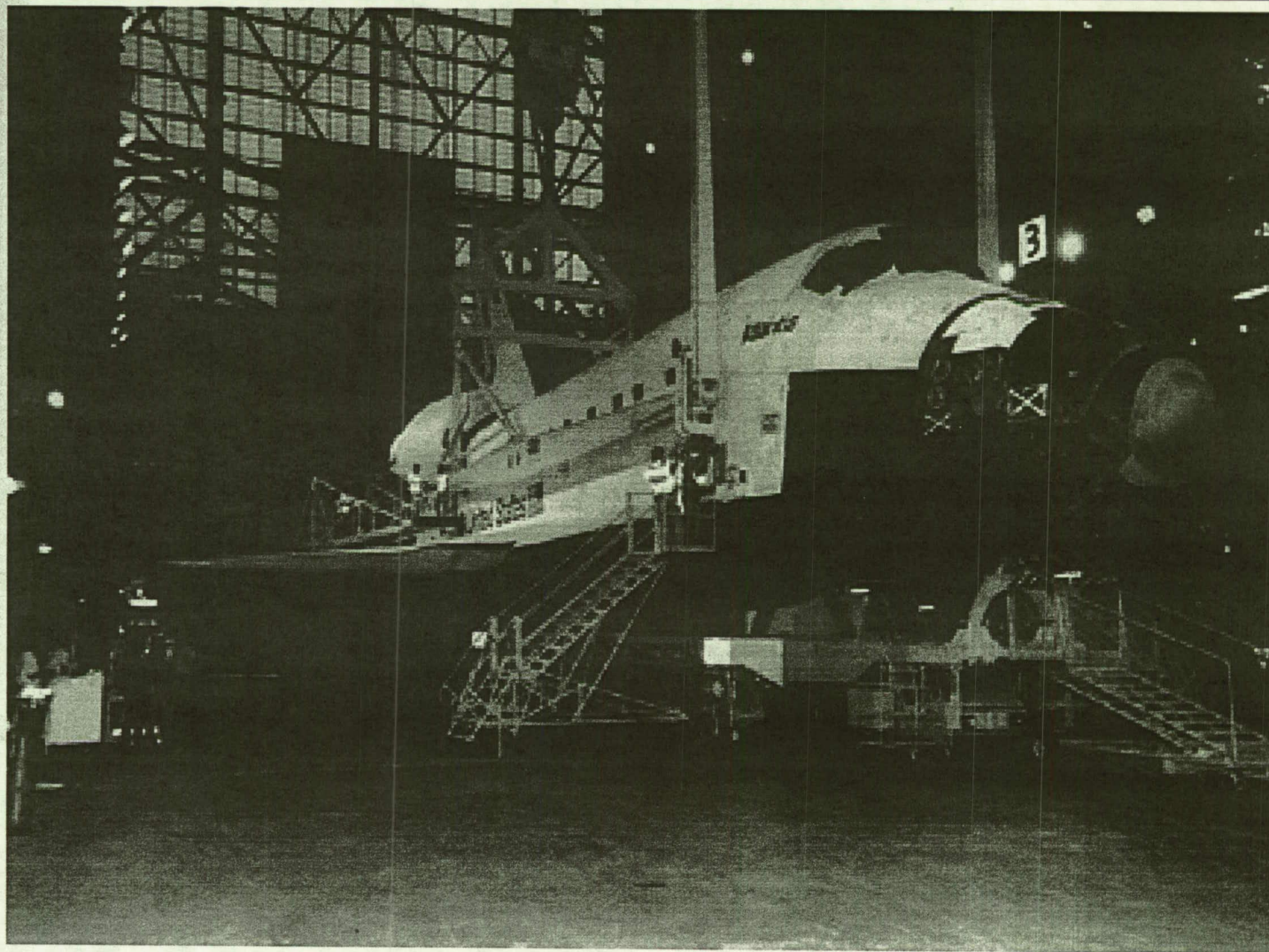
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Ground Operations Tool Control

Shuttle in
Lifting Sling.



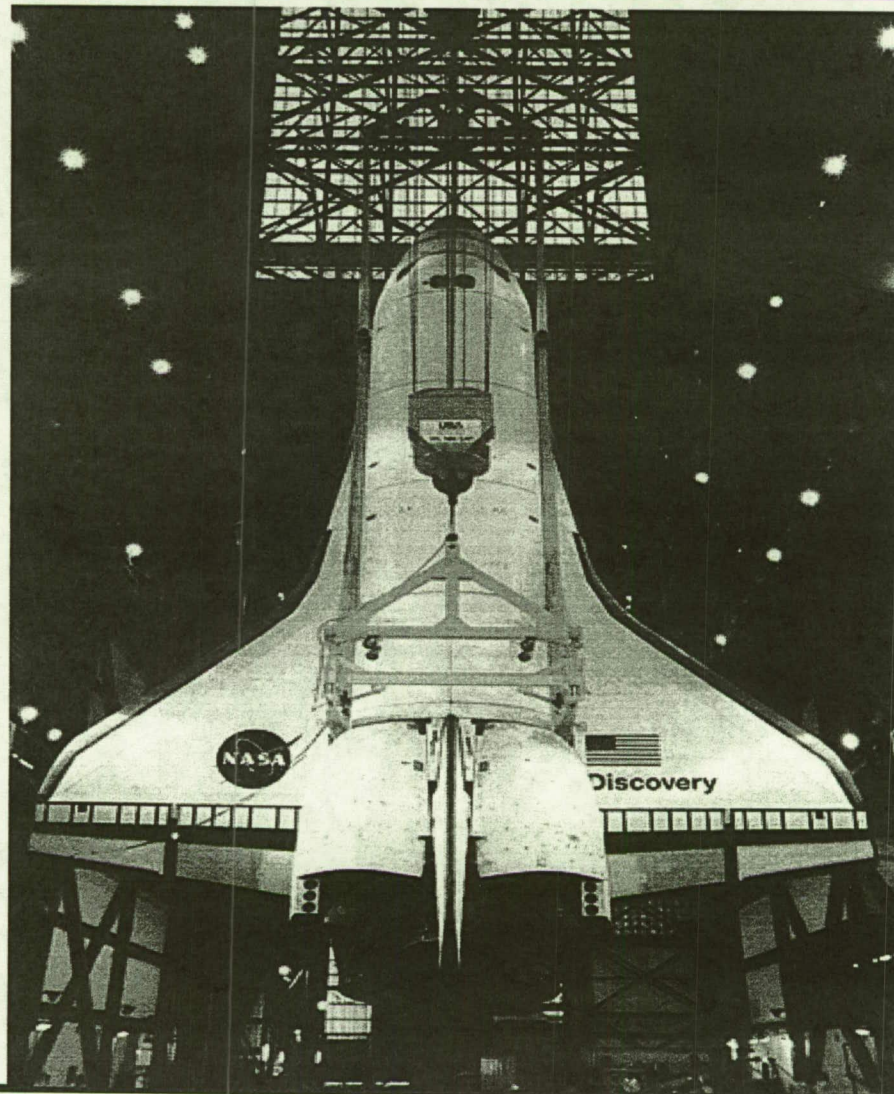
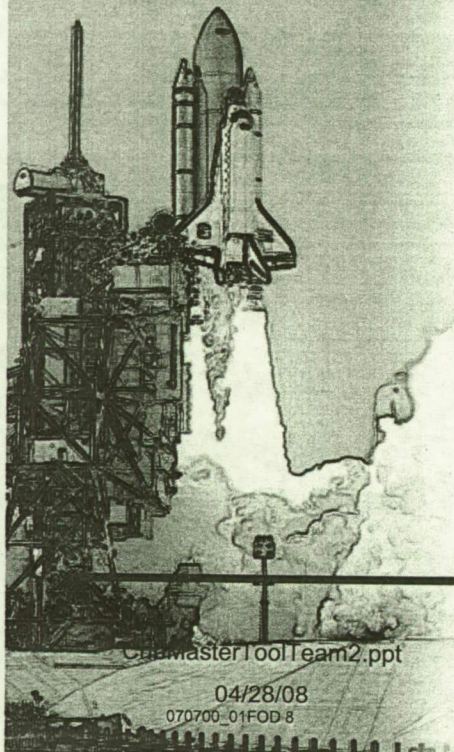
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Ground Operations Tool Control

Up and Away

Space Shuttle is lifted from the VAB transfer isle and rotated to mate to the ET and SRB on top of the MLP.



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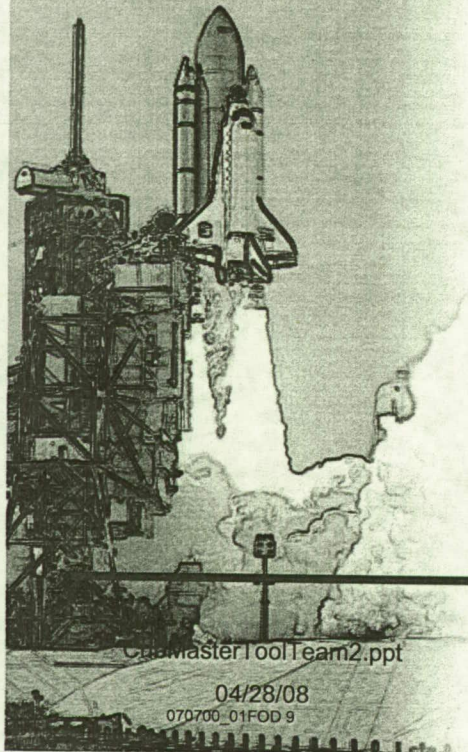
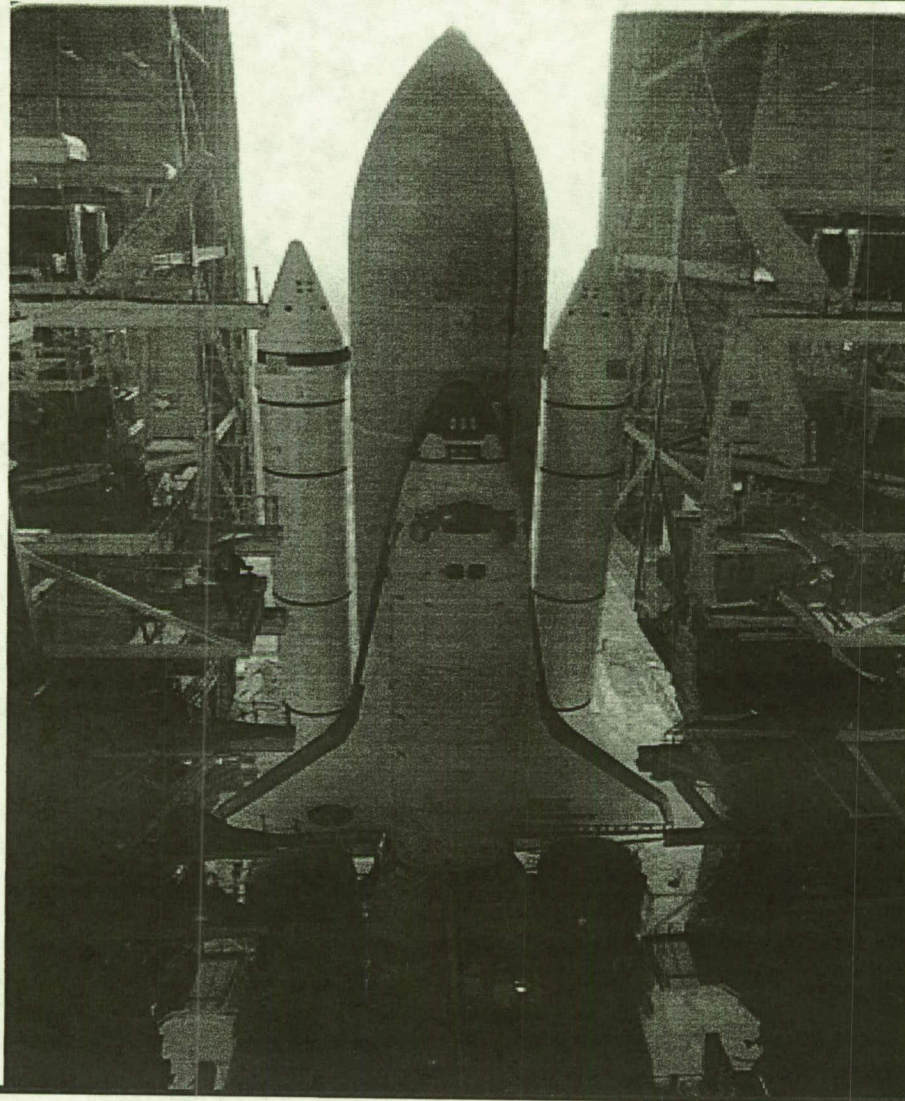
070700-01FOD-8

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Ground Operations Tool Control

Rollout from
the VAB.

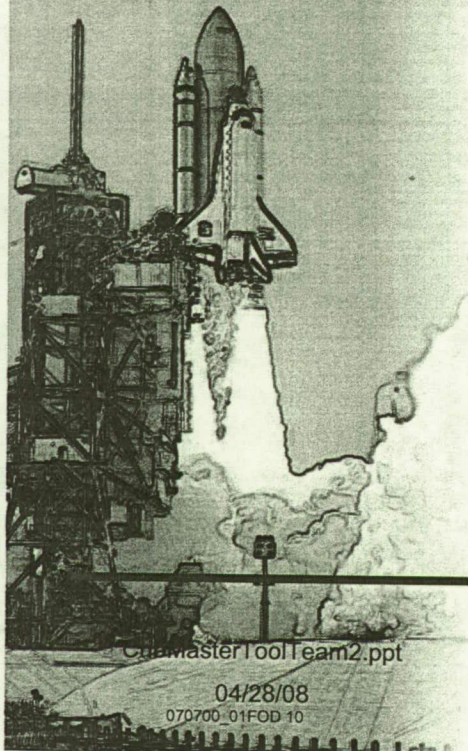


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Scope - Continued

- Tool control is an integral part of FOD Prevention
- USA is recognized as an industry leader in tool control
- USA Ground Operations presently tracks over 744 Active Tool Boxes/Kits for a total of 135,463 tools within CribMaster
- Tool control process supports program goal to fly safe.
- Check and Balances to track lost tools.

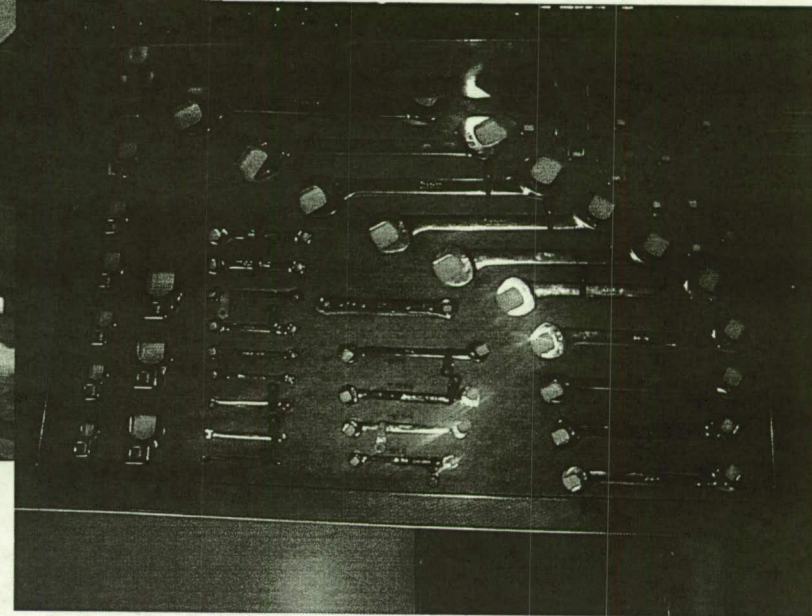
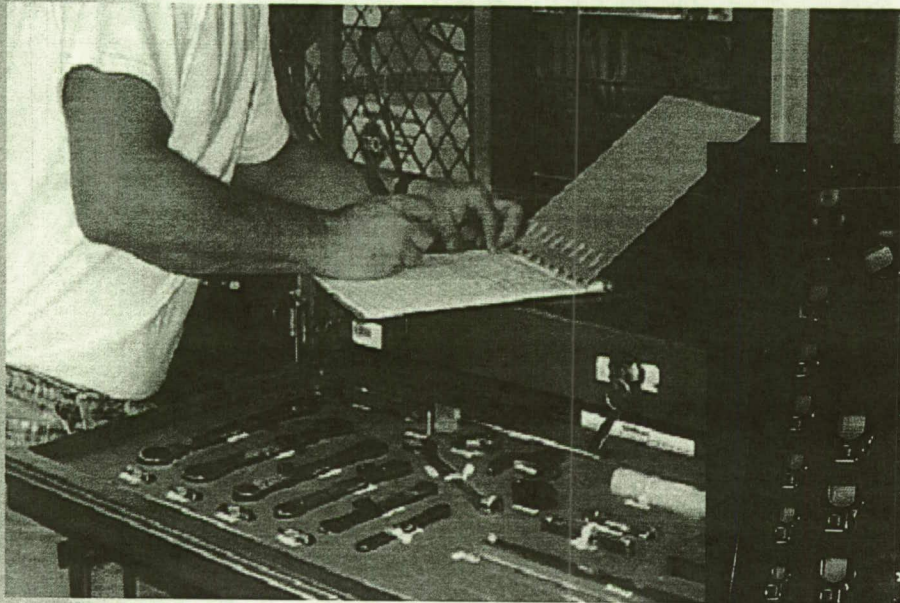


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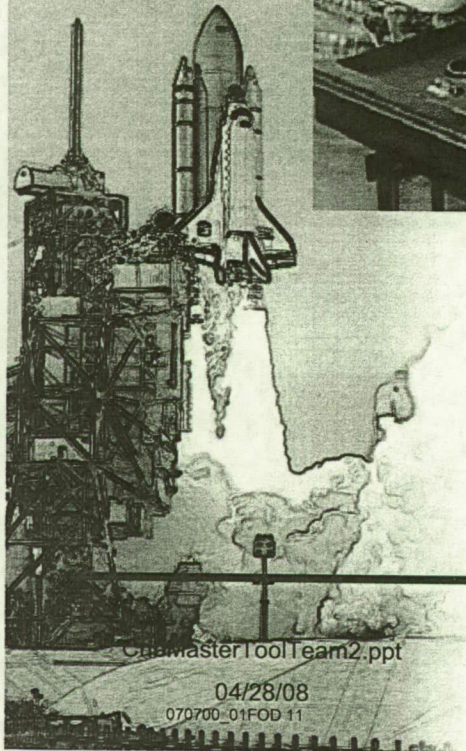


Visual Inventories

Visual inventories must be performed at the beginning and end of each shift that it is used



Shadow boxes are utilized to provide clear visual indicators of missing tools



C:\master\toolTeam2.ppt

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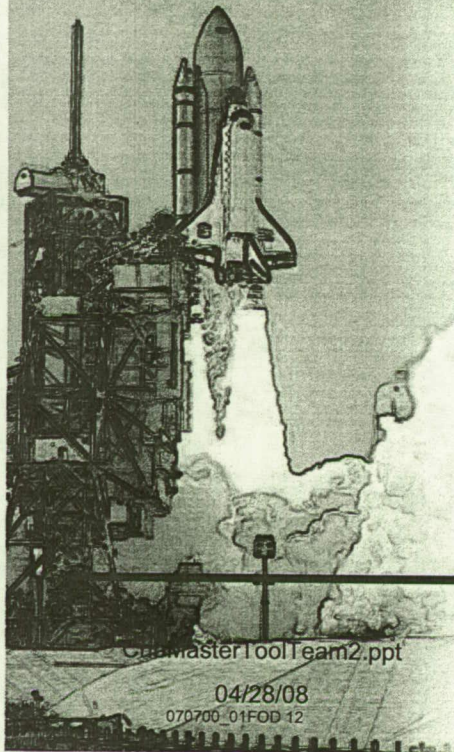
070700-01FOD 11

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CribMaster Usage at USA Ground Operations

- Maintain historical information.
- Scan and link documents / photos to Serial ID record.
- Tool Kits entered as a Crib.
- Each Tool is uniquely serialized and assigned a Crib/Bin in CribMaster.
- Custom fields are used to identify ownership and traceability.
- Track lost tools.

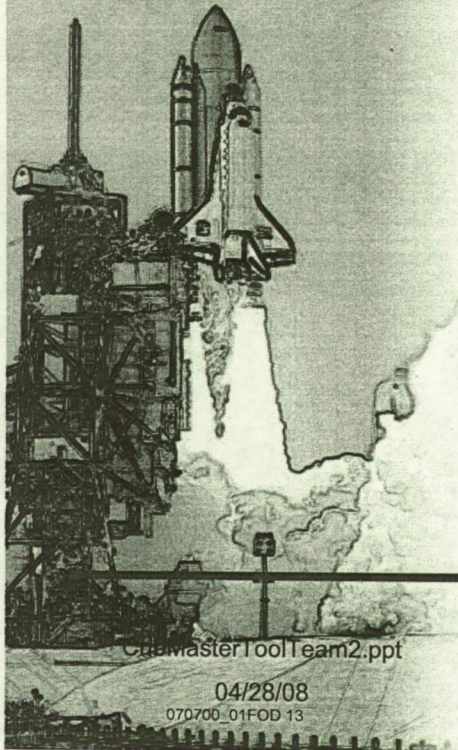


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Customized Crystal Reports

- Tool Kit Content
- Lost Tool Report
- Tool Kit Inventory Self-Audit Form
- Tool Kit Inventory Self-Audit Summary by Manager



CustomMasterToolTeam2.ppt

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Tool Content Report Parameters

Additional Reports [X]

Printer: [default printer for report] [v]

Select reports to print

Available Reports [v]

- ☐ Tool Kit Content by Manager
- ☐ Tool Kit Content Range
- ☒ Tool Kit Content
- ☐ Blank Date Self-Audit by Managers
- ☐ Tool Kit Listing by A Manager
- ☐ Auto Tool Kit Inventory/Self-Audit
- ☐ Auto Tool Kit Inventory/Self-Audit by Mgr II
- ☐ Blank Tool Kit Inventory/Self-Audit

Close Preview Print

Enter Parameter Values [X]

Parameter Fields: [Reset]

CribName
Sort Criteria

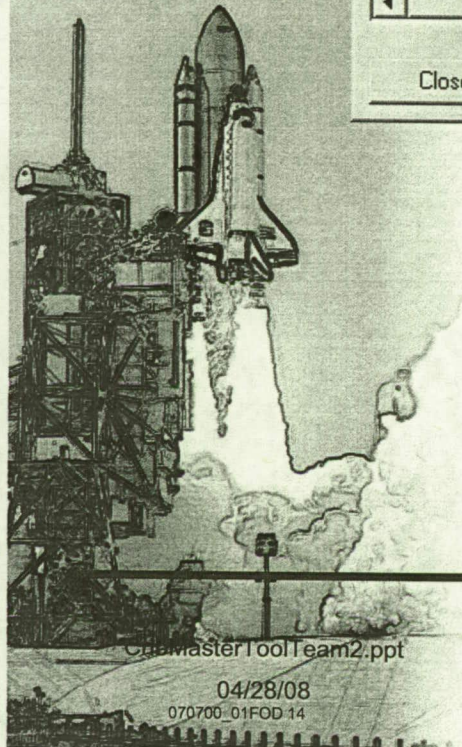
Add Report Columns in the order to be sorted

Discrete Value [SerialID] [v] [Add]

SerialID
Item Number
Description
Drawer

Value [Remove]

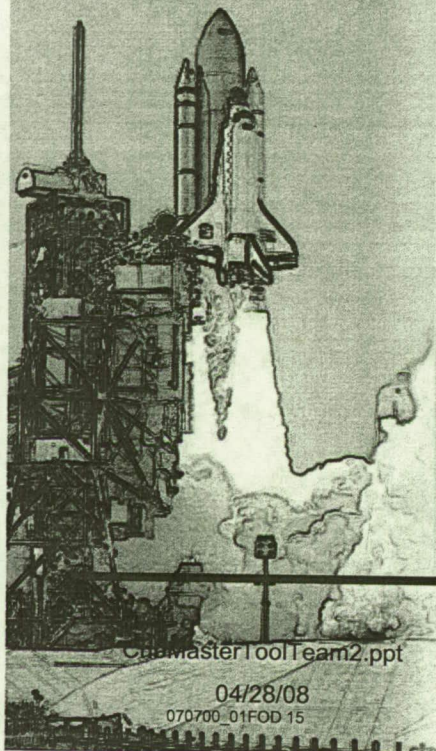
OK Cancel



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Tool Kit Content Report



| CribMaster Report - Crystal 10 | | | |
|---|-----------------|---|--------|
| 03/29/2007 6:27:54PM | | | |
| Tool Kit Content Report | | | |
| A001 | | | |
| Sort Order: SerialID | | | |
| The electronic version of this report is the official version. Printed hard copies should be verified with the electronic version. | | | |
| "For Reference Only" | | | |
| SerialID | ItemNumber | Description | Drawer |
| A001-001 | T-5120006406725 | APEX BIT 3/32 HEX 1/4" DRIVE | 01 |
| A001-002 | T-5120009210574 | APEX BIT 7/64 HEX 1/4" DRIVE | 01 |
| A001-003 | T-5120006406733 | APEX BIT 1/8 HEX 1/4" DRIVE | 01 |
| A001-004 | T-5120006406732 | APEX BIT 5/32 HEX 1/4" DRIVE | 01 |
| A001-005 | T-5120006406731 | APEX BIT 3/16 HEX 1/4" DRIVE | 01 |
| A001-006 | T-5120006406730 | APEX BIT 7/32 HEX 1/4" DRIVE | 01 |
| A001-007 | T-5120006406729 | APEX BIT 1/4 HEX 1/4" DRIVE | 01 |
| A001-008 | T-512000K254434 | APEX BIT HOLDER/DRIVER 1/4 | 01 |
| A001-009 | T-5120008885829 | APEX BIT #4 1/4" DRIVE | 01 |
| A001-010 | T-5120008885827 | APEX BIT #6 1/4" DRIVE | 01 |
| A001-011 | T-5120008828529 | APEX BIT #TS2 CROSS POINT 1/4" DRIVE | 01 |
| A001-012A | T-5120008885831 | APEX BIT #10 1/4" DRIVE | 01 |
| A001-013 | T-5120008885826 | APEX BIT #8 1/4" DRIVE | 01 |
| A001-014 | T-5130007980829 | APEX BIT #5(TS5) 1/4" DRIVE | 01 |
| A001-015 | T-5130004045823 | APEX BIT #1 CROSS POINT 1/4" DRIVE | 01 |
| A001-016 | T-5130004045821 | APEX BIT #0 1/4" DRIVE | 01 |
| A001-017 | T-5130007980826 | APEX BIT #3(TS3) 1/4" DRIVE | 01 |
| A001-018 | T-TMXX60 | EXTENSION 1/4 DRIVE 6" | 01 |
| A001-019 | T-TMXX4 | EXTENSION 1/4 DRIVE 4" | 01 |
| A001-020 | T-TMU8 | ADAPTER UNIVERSAL JOINT 1/4 DRIVE | 01 |
| A001-021 | T-TMXX2 | EXTENSION 1/4 DRIVE 2" | 01 |
| A001-022 | T-TM1 | ADAPTER 3/8 FEMALE 1/4 MALE 1 1/4" LONG | 01 |
| A001-023 | T-TA3 | ADAPTER 1/4 FEMALE 3/8 MALE | 01 |
| A001-024 | T-TMX1 | EXTENSION 1/4 DRIVE 1" | 01 |
| A001-025 | T-TM739 | RATCHET 1/4 DRIVE 39 TOOTH 4 1/2" | 01 |
| A001-026 | T-5120005282891 | APEX BIT HOLDER | 01 |
| A001-027 | T-STMD4 | SOCKET 1/4 DRIVE 1/8 6PT DP | 01 |
| A001-028 | T-STMD5 | SOCKET 1/4 DRIVE 5/32 6PT DP | 01 |
| A001-029 | T-STMD6 | SOCKET 1/4 DRIVE 3/16" 12PT DP | 01 |
| A001-030 | T-STMD7 | SOCKET 1/4 DRIVE 7/32" 12PT DP | 01 |
| A001-031 | T-STMD8 | SOCKET 1/4 DRIVE 1/4" 12PT DP | 01 |
| A001-032 | T-STMD9 | SOCKET 1/4 DRIVE 9/32" 12PT DP | 01 |
| A001-033 | T-STMD10 | SOCKET 1/4 DRIVE 5/16" 12PT DP | 01 |
| A001-034 | T-STMD11 | SOCKET 1/4 DRIVE 11/32" 12PT DP | 01 |
| A001-035 | T-STMD12 | SOCKET 1/4 DRIVE 3/8" 12PT DP | 01 |



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Lost Tool Summary Parameters

Additional Reports [X]

Printer: (default printer for report) [v]

Select reports to print

Available Reports [v]

- ☐ Tool Kit Inventory Self-Audit by Managers
- ☒ Lost Tool Summary
- ☐ Audit History
- ☐ Item Description by Manager
- ☐ Item Id
- ☐ Tool Kit Content by Department
- ☐ Tool Kit Content by Manager
- ☐ Tool Kit Content Range

Close Preview Print

Enter Parameter Values [X]

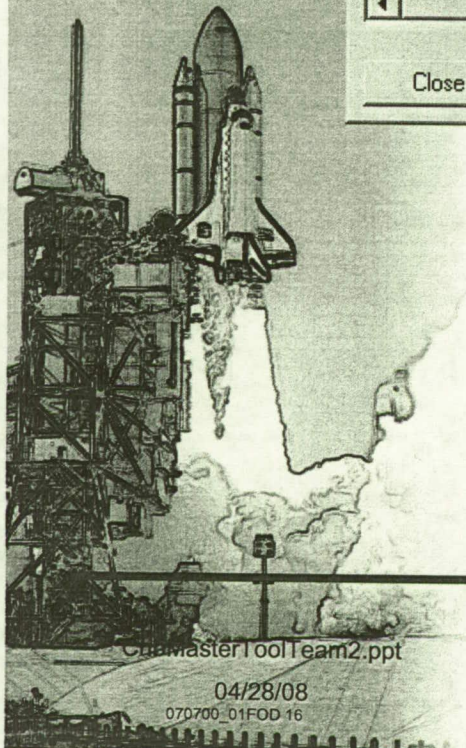
Parameter Fields: [Reset]

Lost Type
From_Date
To_Date
Sort Criteria

Enter Lost Type:

Discrete Value: FLT - Lost in flight hardware [v]
FLT - Lost in flight hardware
NFLT - Lost not in flight hardware

OK Cancel



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Lost Tool Summary

CribMaster Report - Crystal 10

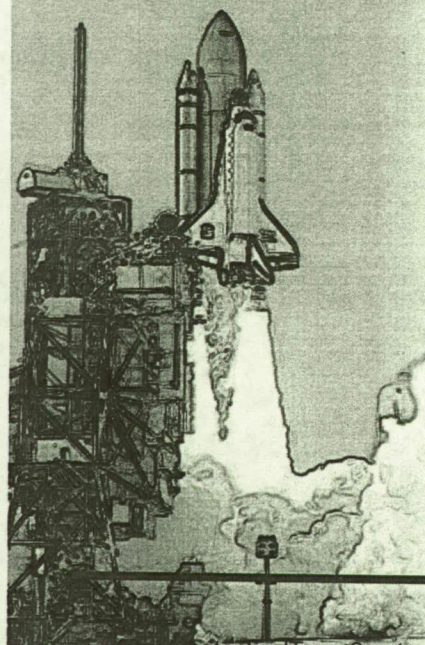
03/29/2007 7:12:05PM

From: 01/02/2006 To: 03/29/2007

Lost Tool Summary
Non-Flight

Sort Order: Manager, Location, SerialID
The electronic version of this report is the official version.
Printed hard copies should be verified with the electronic version.

| Date Lost | Location | SerialID | Description | "For Reference Only" ItemNumber |
|------------|-----------|------------|-----------------------------------|------------------------------------|
| 03/16/2006 | OPF 2 TPS | 002777-016 | SCISSORS KEVLAR DIAMOND SHARPENED | T-511000K838060 |
| 01/04/2006 | OPF 2 TPS | TC2-057 | TILE PLUG TOOL | T-G070007408002 |
| 04/25/2006 | OPF 2 MID | B015-183 | APEX BIT 1/4 HEX 1/4 DRIVE" | T-TS 2121/4 |
| Count: | 3 | | | |



CribMasterToolTeam2.ppt

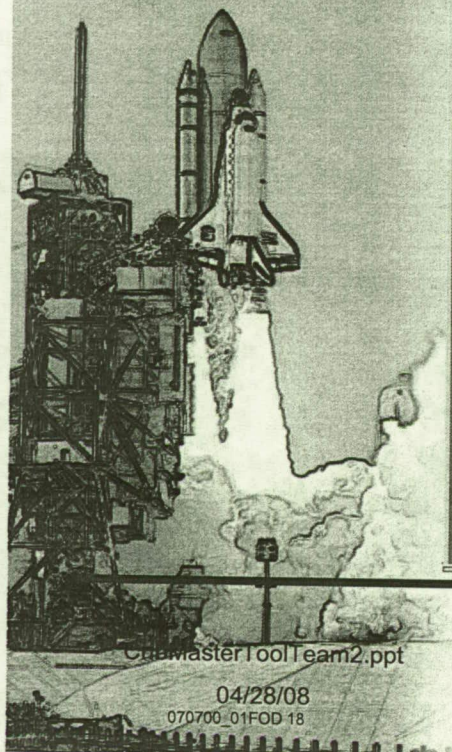
04/28/08

070700-01FOD 17

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Tool Kit Inventory Self-Audit Form



CribMaster Report - Crystal 10

100%

1 / 1+

Tool Kit Inventory/Self-Audit Instructions

If a no (N) is answered please explain / list in comments

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- 1. Tool Kit No.**
Number of the tool kit to be inspected.
- 2. Properly Secured/Monitored**
Is the tool kit key in a secure location and tool kit locked or monitored by a responsible party?
- 3. Organized/Shadowed**
Is the tool kit organized/shadowed?
- 4. Tools and Kit Maintained/Clean**
Are tools and tool kit free from FOD?
- 5. Serialized / Individually Identified**
Are all the tools individually identified and serialized with legible ID's
- 6. Do Tools Match Content Report**
Do all tool descriptions and ID numbers match Content Report?
- 7. Tools Serviceable**
If applicable: If a tool is unserviceable, has it been documented on the Tool kit Inventory Form and is a copy of the replacement PMR or electronic tool request maintained in the Tool kit?
- 8. Missing Tools Accountable**
Are all missing Tools/Item accounted for?
- 9. Tools / Items Authorized**
Are all Items in the Toolkit authorized?
- 10. Tool Sign Out Log for Shared Tool kit**
Is the log properly filled out?
- 11. Tool Kit Inventory Issue and Return Log**
Have the Tool kit Inventory forms been completed properly?
- 12. Tool on Loan**
If applicable: If tool is on loan, is there proper documentation?
- 13. Lost / Misidentified Tool Report**
If applicable: If tool is lost or misidentified, has it been documented on the Tool kit Inventory Issue and Return Log and a copy of Lost Tool Report and PMR or electronic request in the Tool kit?

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Tool Kit Self-Audit Summary by Manager

Additional Reports [X]

Printer: [default printer for report] [v]

Select reports to print

Available Reports [v]

- ☒ Tool Kit Inventory Self-Audit Summary by Manager
- ☐ Tool Kit Inventory Self-Audit by Managers
- ☐ Lost Tool Summary
- ☐ Audit History
- ☐ Item Description by Manager
- ☐ Item Id
- ☐ Tool Kit Content by Department
- ☐ Tool Kit Content by Manager

Close Preview Print

Enter Parameter Values [X]

Parameter Fields: [Reset]

Start_Audit_Date
End_Audit_Date

Enter Start_Audit_Date:

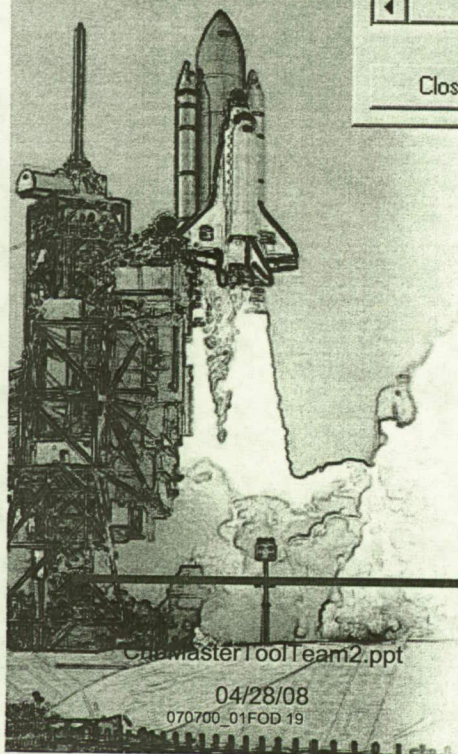
Discrete Value: [03/29/2007]

March, 2007

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| 25 | 26 | 27 | 28 | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Today: 03/29/2007

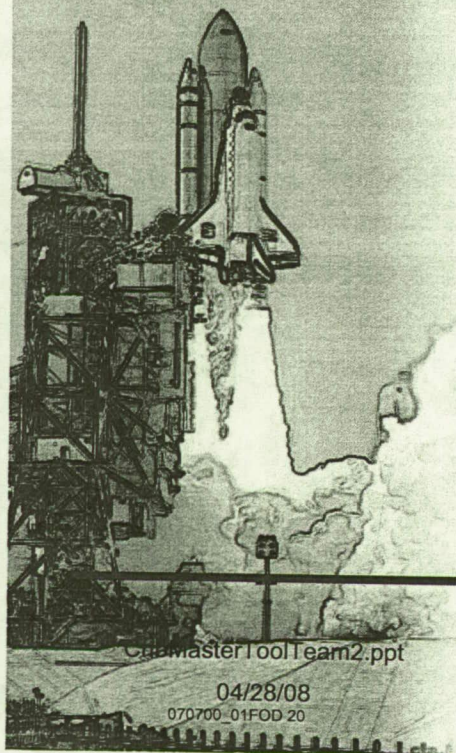
OK Cancel



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Tool Kit Inventory Self-Audit Summary By Manager



CribMaster Report - Crystal 10

03/29/2007 7:21:44PM

From: 01/02/2007 To: 03/29/2007

The electronic version of this report is the official version.
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USA
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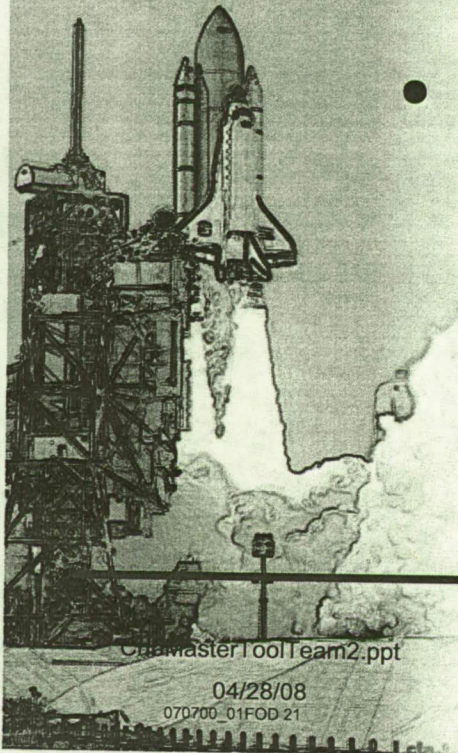
| Manager | Total Cribs | | Percent Complete |
|---------------------|-------------|-----------|------------------|
| BA | 116 | 0 | 0.00% |
| CH | 3 | 0 | 0.00% |
| CL | 32 | 0 | 0.00% |
| EW | 19 | 0 | 0.00% |
| GU | 166 | 28 | 16.87% |
| HE | 2 | 0 | 0.00% |
| ME | 68 | 0 | 0.00% |
| ME | 69 | 0 | 0.00% |
| MU | 70 | 0 | 0.00% |
| PH | 5 | 0 | 0.00% |
| RE | 47 | 0 | 0.00% |
| RC | 4 | 0 | 0.00% |
| SC | 21 | 0 | 0.00% |
| SH | 7 | 0 | 0.00% |
| SU | 114 | 0 | 0.00% |
| Grand Total: | 743 | 28 | 3.77% |

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Using CribMaster Web Reporting

- USA has extended the availability of customized reports using the Web
- CribMaster application and the USA Web reporting site both use Crystal reports
- Users with no access to CribMaster can input parameters from the Web page to query the database



CribMaster1oolTeam2.ppt

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USA Internal Web Page



CribMaster Tool Control Users Guide

Production environment

To view an on-demand report, click on one of the links below. The initial display of reports may be slow, but subsequent displays will be substantially improved.

[Blank Tool Kit Inventory/Self-Audit](#)

[Tool Kit Content](#)

[Tool Kit Content Range](#)

[Tool Kit Content by Managers](#)

[Tool Kit Content by Department](#)

[Lost Tool Summary](#)

[Item ID](#)

[Item Description by Manager](#)

[Audit History](#)

[Tool Kit Inventory Self-Audit by Managers](#)

[Tool Kit Inventory Self-Audit Summary by Manager](#)

[Tool Count by Manager](#)

[Tool Kit Listing by Location](#)

[A Single Tool Kit listing for a Crib](#)

[Tool Kit Listing for a Manager](#)

[Tool Kit Listing by All Managers](#)

[Tool Kit Summary by Managers](#)

[Tool Control Item Listing](#)

[Tool Status](#)

[Blank Tool Kit Inventory/Self-Audit form](#)

[Tool Items in a Crib](#)

[Tool Items in a range of Crib](#)

[Tool Items in a Crib, Grouped by Crib](#)

[Tool Items in a Crib, Grouped by Department](#)

[Summary of Lost Tools Information](#)

[List of Tool Items matching specified Item Id](#)

[Item Description by Manager](#)

[History of Key Transactions](#)

[Tool Kit Inventory statistics grouped by Managers](#)

[Tool Kit Inventory Self-Audit Summary by Manager](#)

[Tool Count by Manager](#)

[Tool Kit Listing by Location](#)

[A Single Tool Kit listing for a Crib](#)

[Tool Kit Listing for a Manager](#)

[Tool Kit Listing by All Managers](#)

[Tool Kit Summary by Managers](#)

[Tool Control Item Listing](#)

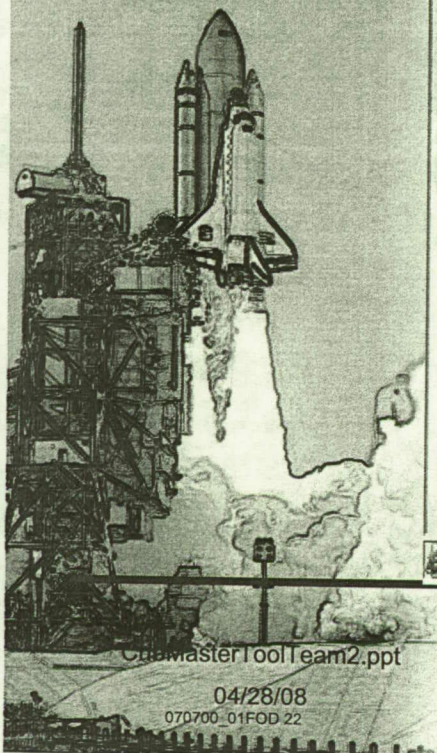
[Status of Items in a range of Crib Names](#)

Curator: AES
RDM: Keith Frisbee

Done

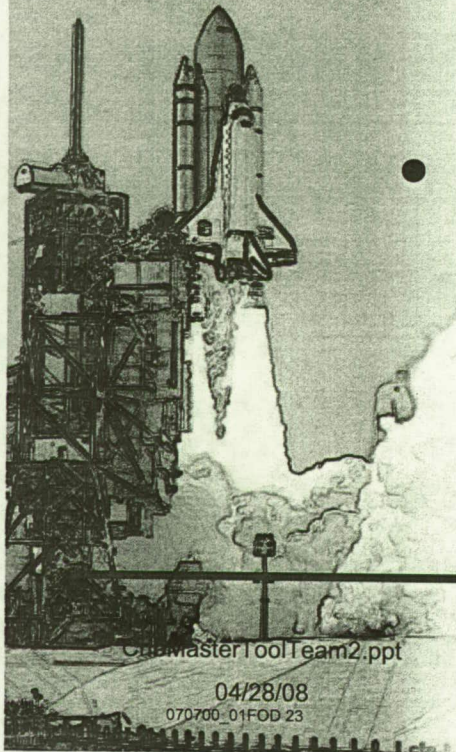
Local intranet

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USA Customizations to CribMaster

- Added unit of measure to inventory table
- Added fields to crib table to further define ownership of crib (tool box)
- Increased item number and related fields from 15 to 30 characters
- Custom Crystal report for parts tag printing on Government form



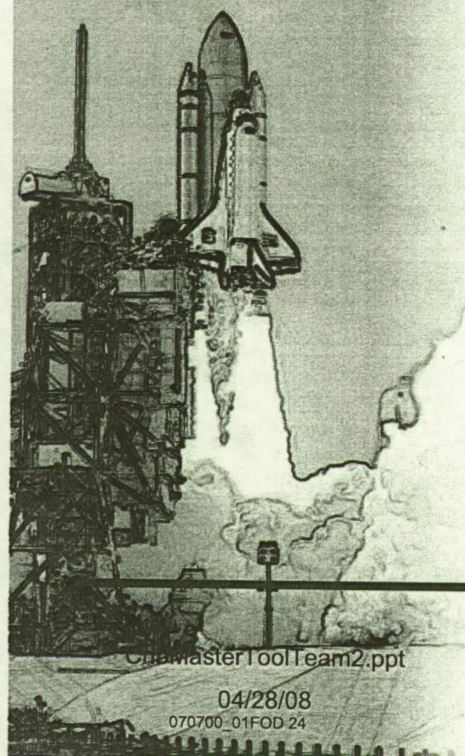
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