



Mission Assurance Proposal  
for the  
**ALPHA MAGNETIC  
SPECTROMETER - 02**  
**[AMS-02]**

October 21, 2004

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<b>Mission Assurance Proposal</b>	<b>AMS-02 Technical Interchange Meeting</b>	
	David Kaplan	October 21, 2004

*Stephen Porter posed the question:*

Given its general experience with Space Shuttle and ISS flight hardware projects as well as its current involvement with the AMS Payload Integration Hardware (PIH), can the NASA Johnson Space Center (JSC) Safety and Mission Assurance (S&MA) organization provide a contribution to the “mission success” for the AMS Experiment?

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# Mission Assurance Proposal

AMS-02 Technical Interchange Meeting

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	PIH	Experiment	
Safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Is it safe?</i>
Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Is it built right?</i>
Mission Assurance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Will it work? . . .throughout its lifetime?</i>

NASA Responsibility

PIH: Payload Integration Hardware



# Mission Assurance Proposal

## AMS-02 Technical Interchange Meeting

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3 activities are proposed in support of Mission Success for the Experiment:

1 NT & LMSO Prepare an AMS Generic QMS Plan

- Minimum acceptable system
- Closed-loop process to document anomalies and failures with Qualification and Flight hardware

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LMSO: Lockheed Martin Space Operations

NT: Organization code for NASA JSC's Safety & Mission Assurance lead for AMS-02

QMS: Quality Management System

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# Mission Assurance Proposal

## AMS-02 Technical Interchange Meeting

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1

NT & LMSO Prepare an AMS Generic QMS Plan

- ♦ minimum acceptable system
- ♦ closed-loop process to document anomalies and failures with qualification and flight hardware

2

NT & LMSO Review Collaboration's Integrated Schedule

Identify Key Tests and Activities

Review Plans for Documentation and Test Reports

Is a Site Visit Recommended ?

NO

No Action Required

Advise AMS-02 Project Manager

YES



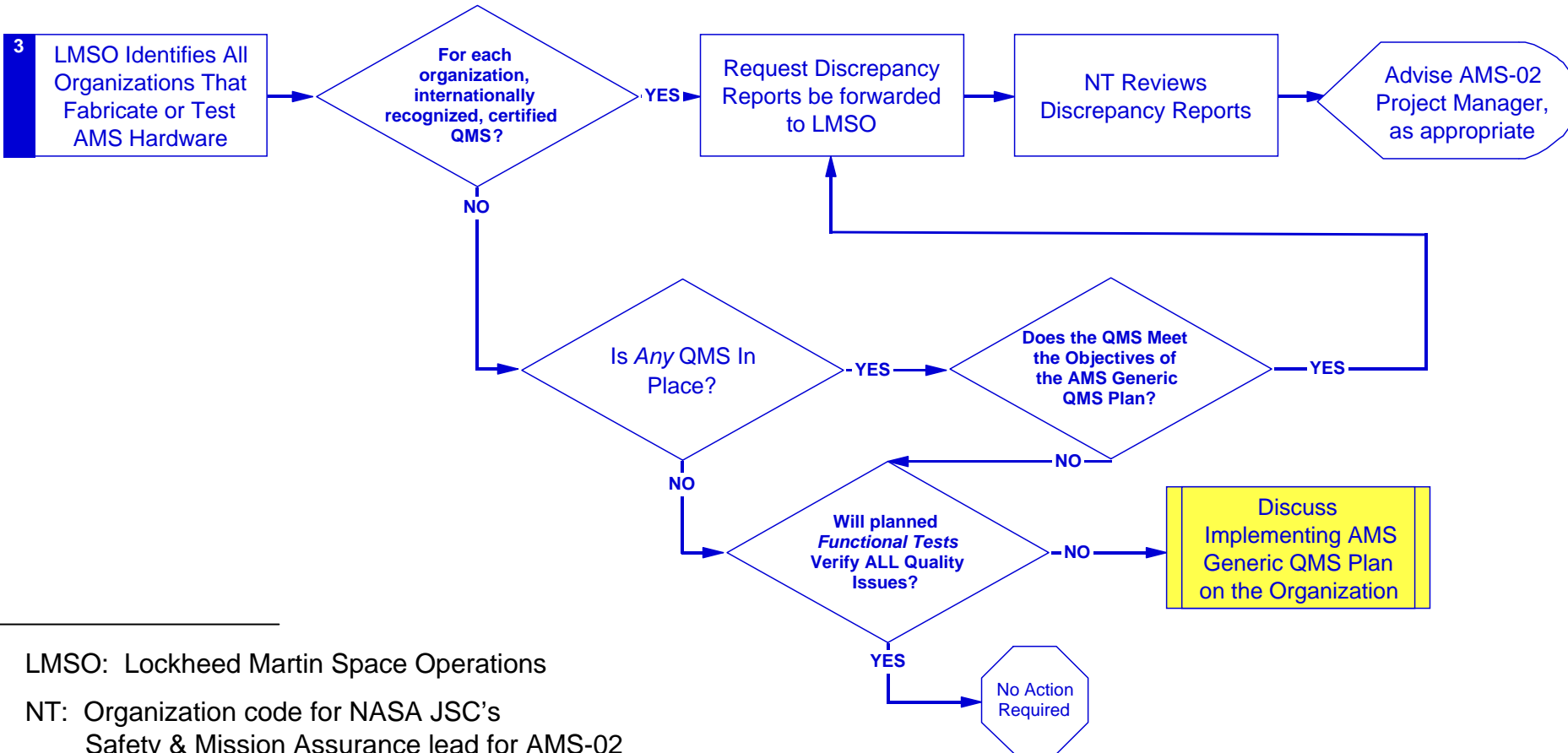


# Mission Assurance Proposal

## AMS-02 Technical Interchange Meeting

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LMSO: Lockheed Martin Space Operations

NT: Organization code for NASA JSC's Safety & Mission Assurance lead for AMS-02

QMS: Quality Management System