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Date ____
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MEETING MATERIALS & PRESENTATIONS

BOX NO. 00620 SECTION NO. 011 SUBSECTION NO. 011

DISK NO. 00101 DISK SIDE A NO. OF PAGES

MEETING DATE 08/11/94

MEETING TYPE:

____ ADR	____ MMT	____ SDRB
____ CDR	____ PDMR	____ SPRCB
____ CPRCB	____ PDR	____ TRR
____ DAILY	____ PMR	____ CLRB
____ FRR	✓ PRCB	____ OSB
____ LSFR	____ PRCB-LSFR	____ MISC
____ LVLI	____ PRCB-LSRR	

DOCUMENT TYPE:

____ AGENDA (INCLUDES ANNOUNCEMENT LTR, ALERTS)
____ MINUTES
✓ PRESENTATION

TITLE Pilot/SCWT Delivery Option (Special Topic)

PRESENTOR D. Counts/FSE MSFC-ET

PCIN NO. SR0676 ALPHA 0 REVISION B

U.S. Govt

AUG 10 '94 12:17 FROM MIC-KAY QUICK TO 87134655210 PAGE

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SPECIAL TOPIC
EXTERNAL TANK

LWT / SLWT
DELIVERY OPTION
(DEFER 2 LWT ET'S)

SR0676
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8/11/94

AUG 10 '94 12:32

Summary

- **Proposal to Defer the Production and Delivery of Two External Tanks (ET-94 and ET-95)Until After the Production of the First Four SLWTs (ET-96 Thru ET-99)**
  - Enhances the Probability of SLWT Program Success by Allowing More Schedule Time to Implement Tool Modifications, Perform Process Development and ALTA Fabrication
  - Does not Impact the SLWT Program or 5th Production Buy Contract Period of Performance
  - Fully Supports any Requirement to Revert to LWT Production in the event of Program Contingency Prior to July 1996
  - Fully Supports FAWG Flight Manifests, Dated May 5, 1994 & July 28, 1994 (7 Flts. in 96/97/98) more conservative
  - Allows Flexibility for Decision as Late as 8/1/95 to Reinsert ET-94 and ET-95 Back Into Production Ahead of SLWT-1 (ET-96) to Support Alternate Launch Schedules in the Event that First Space Station Launch is Deferred beyond 12/1/97
  - Avoids Severe Manpower Staffing and Training Requirement for Short Duration
  - Responds to Mission Success Review Team (Odom) Recommendations

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MARTIN MARIETTA
MANNED SPACE SYSTEMS

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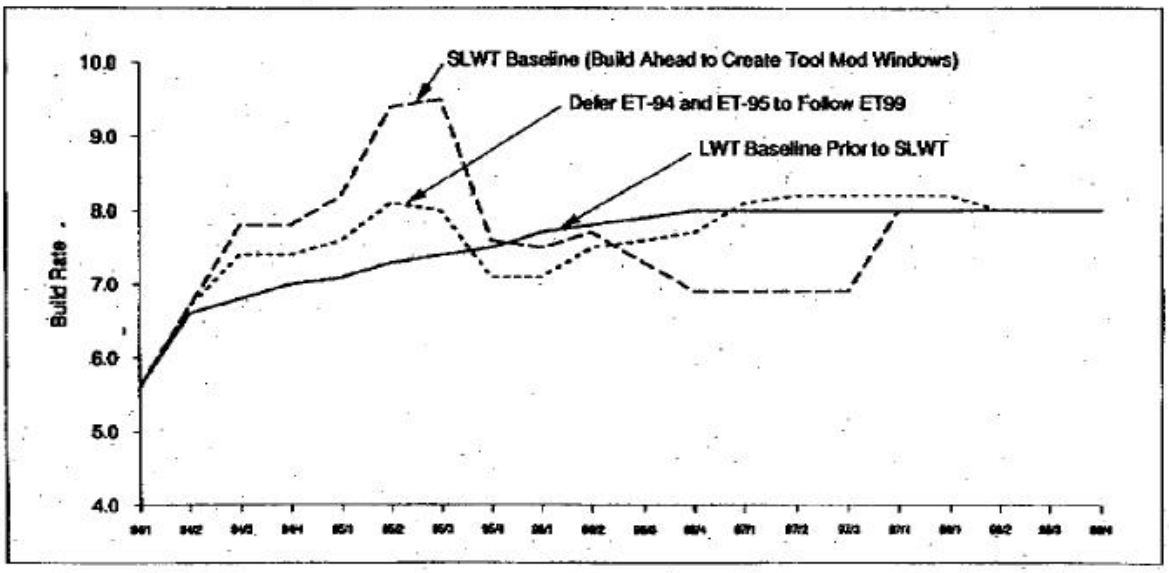
External Tank Build Rates

- **Implementation of the Defer 2 LWTs (Defer Build of ET-94 and 95 Until After SLWT-1) Enhances the Probability of SLWT Program Success by Allowing More Schedule Time to Implement Tool Modifications, Perform Process Development and Avoids Severe Staffing Requirements**



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MARTIN MARIETTA
MANNED SPACE SYSTEMS

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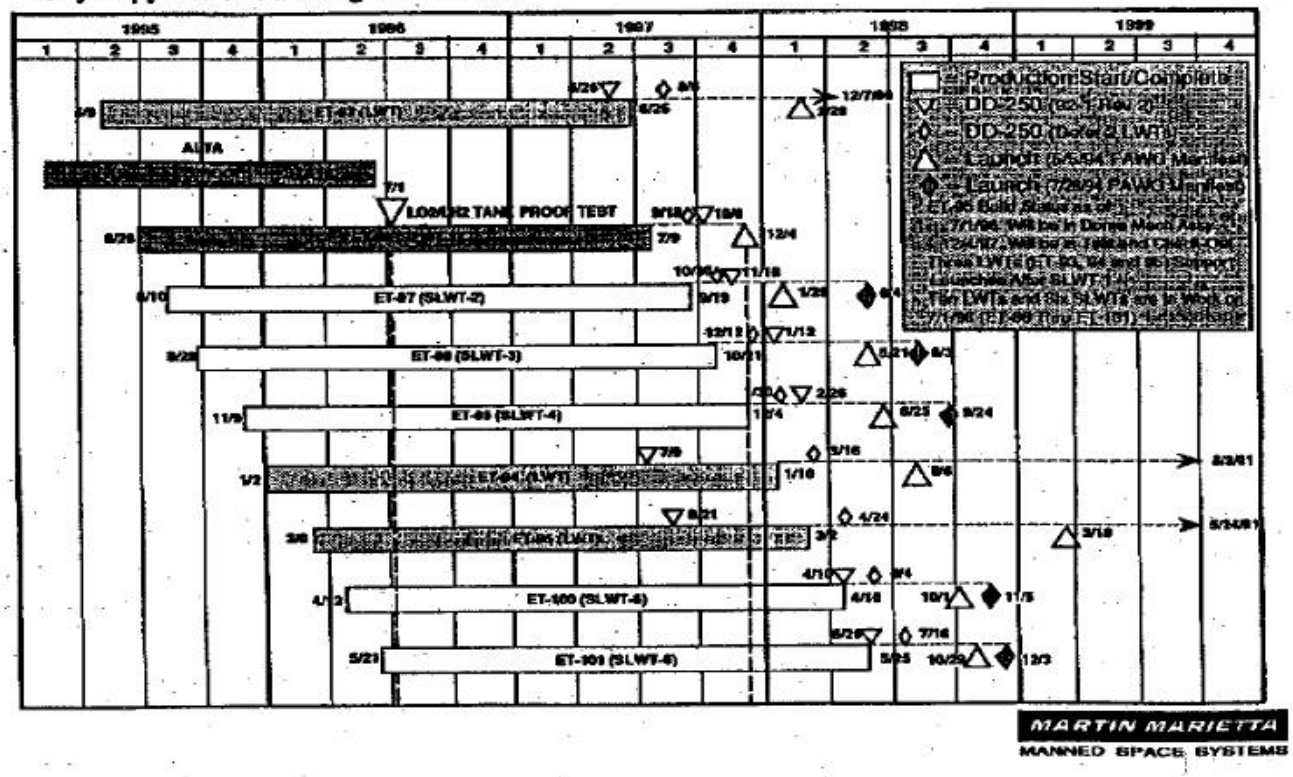
Defer 2 LWTs Schedule (ET-93 Thru ET-101)

- **Does not Impact the SLWT Program or 5th Production Buy Contract Period of Performance and Fully Supports Shuttle Flight Manifests**



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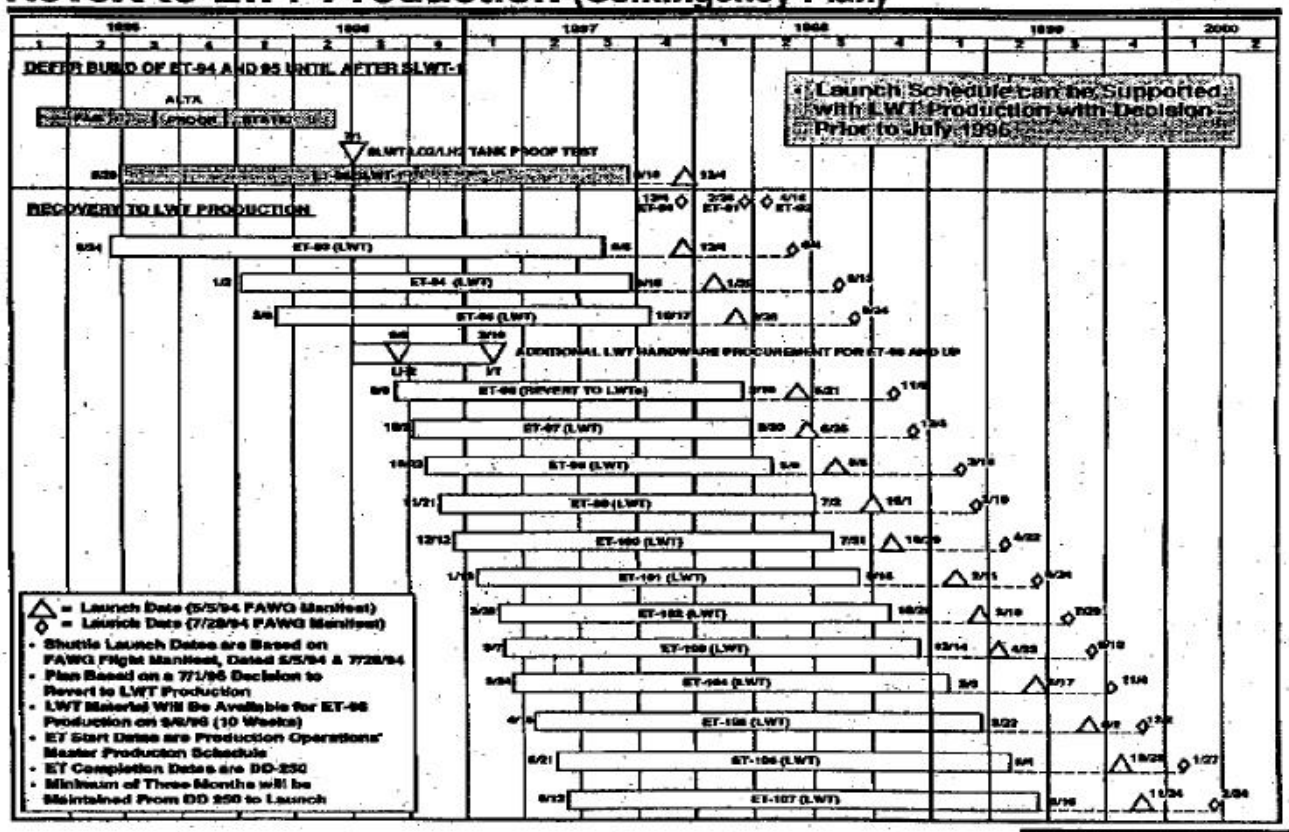
Revert to LWT Production (Contingency Plan)



MARTIN MARIETTA
MANNED SPACE SYSTEMS

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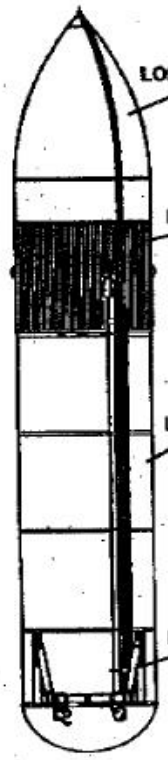
ET Subcontract Hardware Status



LO2
Committed thru ET 120
Delivered Complete Thru ET 87
ET 88 thru ET 95 completion date 4/12/95
Fabrication Lead Time 5 - 6 Months

Procurement of LWT Hardware can support return to LWT build if necessary.

I/T
Committed thru ET 120
Delivered Complete Thru ET 84
ET 85 thru ET 95 completion date 9/1/95
Fabrication Lead Time 6 - 7 Months

LH2
Committed thru ET 120
Delivered Complete Thru ET 88
ET 89 thru ET 95 completion date 3/30/95
Fabrication Lead Time 9 - 10 Months

NOTE:

Raw Material
Casting & Forging
TPS Material
→ Committed Thru ET 100

ET 101 - 120 Orders Held to Mid 4th Qtr. '94 Pending Super Light Weight Decision On Material Change From 2219 to Aluminum Lithium

F/A
Committed thru ET 100
Delivered Complete Thru ET 75
ET 76 thru ET 95 completion date 7/15/96
Fabrication Lead Time 11 - 12 Months

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MARTIN MARIETTA
MANNED SPACE SYSTEMS

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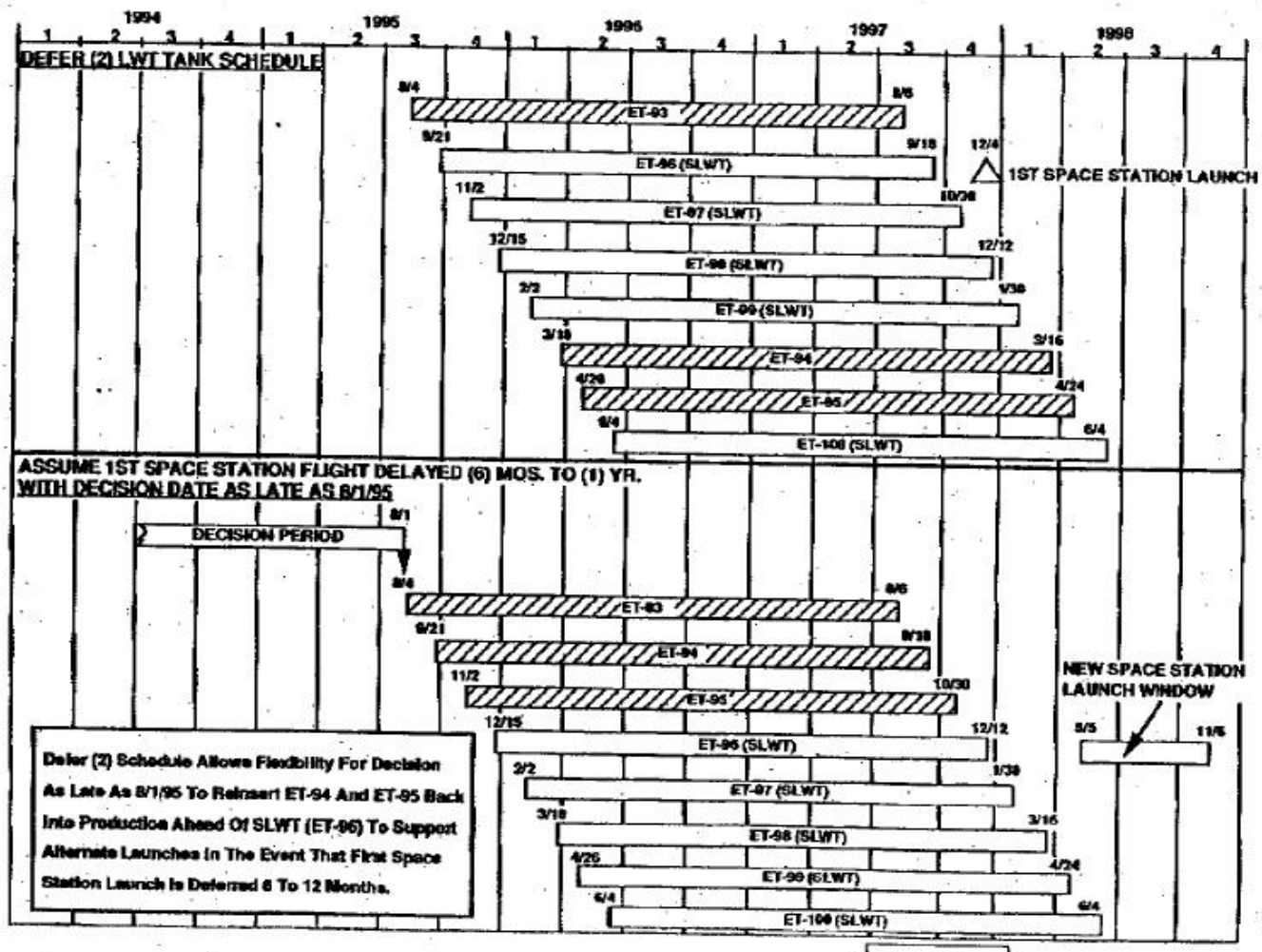
1ST SPACE STATION LAUNCH DELAY OF (6) MOS. TO (1) YR. IMPACT ON PLAN FOR DEFERRING (2) LWT TANKS (ET-94 & ET-95) BEYOND 1ST SLWT TANK (ET-96)



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SPACE SHUTTLE PROGRAM
CHANGE ACTION REQUEST

PCIN/CR/SR/PRCBD/ACTION NO: SR0676 SR0676

SUBJECT/TITLE: LWT/SLWT DELIVERY OPTION (DEFER 2 LWT ET'S)

CURRENT STATUS: SCHEDULED TO SPECIAL TOPIC
DATE(S)/MEETING(S)

BEING PROCESSED OSB _____ NEW CR: _____ OTHER: _____

REQUESTED ACTION:

- [ ] SCHEDULE TO
- [ ] RESCHEDULE TO
- [X] EXPEDITE TO
- [ ] OTHER
- [ ] PROCESS OSB
- [ ] CORRECT ERROR
- [ ] WITHDRAW CR

BOARD:	DATE		DATE
[X] PRCB	8/11/94	[ ] MICB	
[ ] DAILY PRCB		[ ] SASCB	
[ ] SIR		[ ] S&O	
[ ] IMSCCB		[ ] JPR	
[ ] OMRSCB		[ ] JIMP	

OTHER:

SUPPORTING RATIONALE:

REQUEST DISCUSSION ON CONTRACTUAL DELIVERY DATE REVISIONS TO SUPPORT THE SLWT ACTIVITIES AND SCHEDULING.

PRESENTER:	OFFICE:	PHONE:
P. COUNTS	MSFC/SA31	205-544-1292

CONCURRENCES:

Paul V. Counts
REQUESTER

OPR

APPROVAL: [signature] 8/10
PRCB SECRETARY

SSP Form 4029 (Rev Oct 93)