

**Task Order Plan (TOP)**

**Contract Number:** NNM05AB50C  
**TO Title:** Imagery Analysis  
**TO Number:** 32-090304 **Revision:** 04

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**Period of Performance:** 10/02/2010 to 5/29/2011

**MSFC Initiator:** Deborah Bagdigian

(b)(4)  


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**Emergency:** No

Sub-element WBS funding:

Subelement - SA (WBS 197009.10.01.01.06)

Revision 04: The purpose of this revision is to extend this task into Contract Year 6 of the NNM05AB50C ESTS contract. This revision defines and estimates work for the period October 2, 2010 through May 29, 2011. Additionally, the Schedule, Performance Plan and Risk Assessment have been revised to reflect changes in task activities for the new period of performance. Subelement 32-090304-CA was administratively closed on July 2, 2010 due to the Constellation/Ares replan, and the scope was not continued.

This revision affects the following Program:

Shuttle Program (Subelement SA)

Sub-element Mapping and WBS funding

New Subelement	Previous TO	WBS
32-090304-SA	32-090304-01	197009.10.01.01.06

Revision 03: The purpose of this revision is to extend this task into Contract Year 5 of the NNM05AB50C ESTS contract. This revision defines and estimates work for the period October 3, 2009 through October 14, 2010. Additionally, the Schedule, Performance Plan and Risk Assessment have been revised to reflect changes in task activities for the new period of performance.

This revision affects the following Program:

- Shuttle Program (Subelement 01)

This revision affects the following APO element:

- Flight & Integrated Test Office (Subelement CA)

Revision 02: The purpose of this revision is to extend this task into Contract Year 4 of the NNM05AB50C ESTS contract. This revision defines and estimates work for the period September 27, 2008 through October 2, 2009. Additionally, the Schedule, Performance Plan and Risk Assessment have been revised to reflect changes in task activities for the new period of performance. This revision affects the following APO elements:

- Flight & Integrated Test Office

Revision 01: The purpose of this revision is to make changes contained in the description below. The previous revision was estimated at (b)(4). This revision is estimated at (b)(4). The overall cost impact is an increase in the estimate of (b)(4) due to changes in subelement 32-090304-01. There are no changes to subelement 32-090304-CA.

- Subelement -01 (WBS 197009.10.01.01.06)
  - The travel estimate was increased to more accurately reflect the travel expected through the end of FY08.
  - The Performance Plan has been revised to more accurately reflect the task activities required to support this subelement. Increased the task emphasis on analysis and three-dimensional modeling and reduced the emphasis on software. This change had no effect on the total task order estimate.

Total Increase of Travel Estimate: (b)(4)

Total Increase in Estimate: (b)(4)

This Task Order (TO) is a continuation of work being performed on TO 32-010201 of the NNM05AB50C ESTS contract. This TO realigns work performed previously in EV12, and now supports EV93 within the new ED organizational structure. This TO defines and estimates work for the period 1 March 2008 through 26 September 2008. TO 32-010201 will be revised for closure in March with an effective date of 29 February 2008.

Sub-element Mapping and WBS funding

New Subelement	Previous TO	WBS
32-090304-CA		136905.10.10.50
32-090304-01	32-010201-01	197009.10.01.01.06

Other adjustments:

Subelement CA represents new scope of work that was not a part of the previous TO.

## **1.0 Task Order Description & Objectives**

This task provides engineering support for imagery analysis to the Vehicle Systems Hardware Development and Flight Evaluation Branch in the Spacecraft and Vehicle Systems Engineering and Integration Division.

### **Subelement SA – Imagery Analysis Support – Shuttle**

The support includes performing special imaging analyses for launches and tests including three-dimensional modeling, posting results on the website, developing software code for data reduction from images.

Imagery analysis, three-dimensional modeling and software development for the Space Shuttle Program will be performed in support of WBS 197009.10.01.01.06.

## **2.0 Technical Approach (Including required input, guidelines & assumptions)**

The Jacobs ESTS Group will assist the Vehicle Systems Hardware Development and Flight Evaluation Branch in performing imagery analysis. The support will include the following:

1. Perform special imagery analysis.
2. Deliver results of imagery analysis.
3. Support software code development for data reduction from digital images.
4. Perform three-dimensional modeling of events.
5. Support integration of digital hardware.
6. Provide support for imaging requirements development and planning.
7. Perform three-dimensional optical tracking to tower clear.

## **3.0 Discussion of Skills Required**

This task requires mid level engineers, or equivalent experience, with experience in imagery analysis, three-dimensional modeling and software code development.

## **4.0 Special Tools Required**

None

## **5.0 Participating Subcontractors**

None

## **6.0 Milestones & Deliverables**

Monthly Activity Reports

Analyses and reports will be delivered at designated milestones



# ESTS Contract Task Order Request Performance Plan

Task Order Title: [Imagery Analysis](#)

Task Order Number: [32-090304](#) Revision: 04

Category	Weighting Technical %	End of Period Technical Score
<b>Technical Objectives</b>	65%	X 65% = <b>Justification</b>
Perform special imaging analyses for launches and tests including three-dimensional modeling, post results on the website, develop software code for data reduction from images.		
<b>Schedule Objectives (Milestones)</b>	Weighting Schedule % 10% (min 10%)	Schedule Score X 10% = <b>Justification</b>
Analyses, reports, and plans are to be delivered at designated milestones except as re-negotiated by NASA and Jacobs.		
<b>Cost (actual vs. negotiated)</b>	Weighting Cost% 25% (min.25%)	Cost Score X 25% = <b>Justification</b>
	Weighting Total % 100.00%	<b>Total Score</b>

## Technical, Schedule, and Cost Grading Scale

Score	Description
9.0-10.0	Exceeded TO Performance Plan objectives resulting in major benefit(s)
8.0-8.9	Exceeded TO Performance Plan objectives resulting in modest benefit(s)
7.0-7.9	Met TO Performance Plan objectives
3.0-6.9	Did not meet all TO Performance Plan objectives resulting in minimal impact or requiring additional agency funds
0.0-2.9	Did not meet TO Performance Plan objectives resulting in substantial impact and/or requiring additional agency funds

## ESTS Contract Task Order Request Performance Plan

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**Comments:**

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**Risk Assessment**

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**Task Order Risk Assessment to Cost, Technical, and Schedule**

List identified risk associated with Task Order performance as related to task cost, technical, and schedule. Classify the risk(s) according to probability of occurrence and impact as defined below and enter the risk into risk matrix.

Risk	Risk Type	Probability (1-4)	Impact (1-4)	Risk Description
Risk C1	Cost			No cost risks have been identified for this Task Order.
Risk C2	Cost			
Risk T1	Technical			No technical risks have been identified for this Task Order.
Risk T2	Technical			
Risk S1	Schedule	1	2	If required input data is not available on schedule, it may cause delays in associated deliverables.
Risk S2	Schedule			

\*Note: See page 2 for risk mitigation plan for those risks which are Primary Risk Drivers.



