

RECORD OF ENVIRONMENTAL CONSIDERATION

1. Description of the Proposed Action:

Cx is planning a new test campaign to flesh out Orion capsule water recovery. It's called PORT (Post-Landing Orion Recovery Test). Initial testing will be in a pool at the Navy's Aberdeen facility, using a steel and fiberglass Orion mock-up, and is well within normal test parameters at that facility. Follow on testing will be at sea, well offshore of KSC--the team will be seeking high seas to fully test the recovery systems and operations. They plan to use one of the SRB recovery ships and the same Orion mock-up.

2. Purpose and Need: Assess Orion and GS PDR concepts to maximize recovery in strenuous sea conditions.

3. Anticipated date and/or duration of proposed action: APG Wave Pool Testing is schedule for November 2008. At Sea testing is scheduled for January 2009.

4. The above action is adequately covered in an existing EA/EIS:

Programmatic Environmental Impact Statement for the Constellation Program,
January 2008.

5. The above action has no environmental impact as indicated by the results of an Environmental Analysis Checklist and/or a detailed Environmental Analysis. (Attach Checklist or Environmental Analysis as applicable).

SIGNED:


CxP Environmental Manager

Date 7/7/08

NEPA Environmental Checklist

Project Name: Post-Landing Orion Recovery Test (PORT) **Date:** 6/30/2008

Project Contact: Jennifer Rhatigan **Phone Number:** 281-244-8326

Building Number and Location: N/A

Description of Project: Post-Landing Orion Recovery Test – Initial testing will be in a pool at the Navy’s Aberdeen Facility. Testing is well within the normal test parameters of the facility. Follow-on testing will be conducted off the coast of KSC.

Existing NEPA Documentation: The action is tiered off the Constellation Programmatic Environmental Impact Statement. The Record of Decision was signed on 2/28/2008.

Environmental Impacts: “Yes” responses may require the project to prepare an Environmental Assessment or conduct additional studies.

A. Geologic:

	Yes	Maybe	No
a. Greater than 10 % change in topography or ground surface relief features?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Any increase in wind or water erosion of soils, either on or off site?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Changes in deposition, siltation, or erosion that may modify the wetlands or bay?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explain all “yes” and “maybe” answers: _____

B. Air:

	Yes	Maybe	No
a. Substantial air emissions or deterioration of ambient air quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. The creation of objectionable odors?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Alteration of air movement, moisture, temperature, or any changes in climate, either locally or regionally?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explain all “yes” and “maybe” answers: _____

C. Water:

	Yes	Maybe	No
a. Disturbance of groundwater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Greater than 10% changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Alter the course or flow of flood waters?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Alteration of the direction or rate of ground waters?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Activities resulting in changes of greater than 10 percent of Center total potable water use (more than 14,700,000 gallons/year)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g. Any construction or other activity in a floodplain or wetland?.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explain all “yes” and “maybe” answers: _____

D. Cultural Resources:

	Yes	Maybe	No
a. Is the project located in an historic district or effect an existing landmark?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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b. Will the project alter a building that is 50 years or older?		X
c. Is the project located in an area of suspected archaeological resources?		X

Explain all "yes" and "maybe" answers: _____

E. Biological Resources:

	Yes	Maybe	No
a. Construction/grading/filling within or adjacent to designated wetlands?...			X
b. Reduction of the numbers of any rare, or endangered species?.....			X
c. Construction/grading/filling within open space or grasslands areas?			X
d. Introduction of new species or plants into an area, or impacts the normal replenishment of existing species?			X
e. Propose new landscaping or modify existing landscaping?			X

Explain all "yes" and "maybe" answers: _____

F. Noise:

	Yes	Maybe	No
a. An on-going increase greater than 10%?			X
b. Exposure of people to severe noise levels (above 80 dBA)?			X

Explain all "yes" and "maybe" answers: _____

G. Land Use:

	Yes	Maybe	No
a. Substantial alteration of the present or planned land use or an area?			X
b. Increase in the rate of use of any natural resource?			X
c. Activities resulting in changes of greater than 10 percent of Center energy consumption (12,400,000 kWh of office electricity, 7,240,000 kWh wind tunnel electricity, or 177,000 therms of natural gas)?			X
d. Activities resulting in a change in total employment levels greater than 10 percent (More than 220 people)?			X

Explain all "yes" and "maybe" answers: _____

H. Health and Safety:

	Yes	Maybe	No
a. Generation of ionizing or non-ionizing radiation?.....			X
b. Generate air emissions?			X
c. Use of pesticides, including insecticides, herbicides, fungicides or rodenticides?.....			X
d. Risk of exposure to asbestos or lead containing materials?			X
e. Result in the exposure or disturbance of contaminated soil or ground water?			X
f. Generate waste water or storm water discharge?			X
g. Use of Class I ozone depleting substances (CFCs, TCA)?.....			X
h. Acquisition, use, or storage of any toxic or hazardous substance?.....			X
i. Generation of medical (biohazard), hazardous, toxic, or radiological wastes?.....			X
j. Use, disturbance or disposal of PCBs?			X

Explain all "yes" and "maybe" answers: _____

I. Transportation/Circulation:

	Yes	Maybe	No
a. Generation of substantial vehicle trips (over 220 per day)?			X
b. Affect existing parking facilities or demand for new parking?.....			X

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- c. Substantial impact upon existing transportation systems?.....

		X
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- d. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians? .

		X
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Explain all "yes" and "maybe" answers: _____

J. Environmental Justice:

- | | Yes | Maybe | No |
|---|-----|-------|----|
| a. Does the project have the potential to disproportionately affect low income populations or minority populations? | | | X |

Explain all "yes" and "maybe" answers: _____