

NEPA Environmental Checklist

Date: 2/25/2009

Project Name: New or Remodeled LaRC Fire Station

Project Contact: Thomas Quenville

Phone Number: 864-7286

Bldg. Number: 1248 Bldg. Location: NASA, Langley Research Center Hampton, VA

Description of Project: Rehab or new construction of a 15,000 sf fire Station and Emergency Operations Center

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 percent change in topography or ground surface relief features?		X	
b. Any increase in wind or water erosion of soils, either on or off site?			X
c. Changes in deposition, siltation, or erosion that may modify the wetlands or bay?			X

Explain all "yes" and "maybe" answers: Possible modifications to existng grade may be required to achieve proper run-off of rain water

B. Air:

	Yes	Maybe	No
a. Substantial air emissions or deterioration of ambient air quality?			X
b. The creation of objectionable odors?			X
c. Alteration of air movement, moisture, temperature, or any changes in climate, either locally or regionally?			X

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

C. Water:

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

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

D. Cultural Resources:

	Yes	Maybe	No
a. Is the project located in an historic district or effects an existing landmark?			X
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: One proposed option is to renovate the existing fire station which was constructed in the early 1960's.

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: The proposed new fire station site is in a greenfield location. Planting may be a part of the new conceptual design. Any proposed plants should meet sustainable requirements.

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F. Noise:

	Yes	Maybe	No
a. An ongoing increase greater than 10 percent?			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 1 ozone depleting substances (CFCs, TCA)?			
h. Acquisition, use, or storage of any toxic or hazardous substance?			
i. Generation of medical (biohazard), hazardous, toxic, or radiological wastes?			
j. Use, disturbance, or disposal of PCBs?			

Explain all "yes" Paved and roof areas will create some additional quantity of storm water run-off.
and "maybe"
answers: _____

I. Transportation/Circulation

	Yes	Maybe	No
a. Generation of substantial vehicle trips (over 220 per day)?			
b. Affect existing parking facilities or demand for new parking?			X
c. Substantial impact upon existing transportation systems?			X
d. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?			X

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: _____

K. Activity Dates:

a. Anticipated date of proposed action? 2013

L. Cost of Project: \$8,000,000.00