



## Oxide Molecular Beam Epitaxy System

**Solicitation Number:** N00173-08-R-KK06

Agency: Department of the Navy

Office: Office of Naval Research

Location: Naval Research Laboratory

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**Notice Type:**

Modification/Amendment

**Original Posted Date:**

August 1, 2008

**Posted Date:**

August 14, 2008

**Response Date:**

Aug 21, 2008 4:00 am

**Original Response Date:**

August 18, 2008

**Archiving Policy:**

Automatic, on specified date

**Original Archive Date:**

July 31, 2009

**Archive Date:**

July 31, 2009

31, 2009

**Original Set Aside:**

N/A

**Set Aside:**

N/A

**Classification Code:**

66 -- Instruments & laboratory equipment

**NAICS Code:**

334 -- Computer and Electronic Product Manufacturing/334516 -- Analytical Laboratory Instrument Manufacturing

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**Synopsis:**

Added: Aug 01, 2008 3:16 pm Modified: Aug 14, 2008 10:33 am [Track Changes](#)

The purpose of this modification is to indicate that an incorrect version of the specifications was posted to NRL's website and to answer questions from a prospective offeror. A corrected version of the specifications is now available. The link is repeated below for convenience:

<http://heron.nrl.navy.mil/contracts/RFP/08kk06.htm>

The questions and answers are as follows:

1. We would like to get some more information on the design and dimensions of the chamber to which the new chamber needs to be connected. Can you provide a dimensional drawing of the existing V80 MBE machine?

Drawings will be posted to NRL's website on Monday, August 18, 2008.

2. If drawings are not available, we need to know the following information:

a. What is the size of the flange (of the preparation chamber) that will be used for attaching the new chamber?

The flange at the end of the preparation chamber is an 8" OD Conflat flange.

b. What is the diameter of the sample chamber?

The diameter of the preparation chamber is 12"

c. What is the sample loading position inside the preparation chamber (height from the laboratory floor assuming that the loading position is at the center of the chamber)?

The sample loading position is offset horizontally from the center of the preparation chamber. The sample platen passes through the approximate center of the 8" flange. The platen is approximately 46.75" ( $\pm 0.5$ ") above the floor at the loading position.

d. What is the amount of space available around the preparation chamber to attach the new chamber?

The existing VG80H bench runs parallel to the prep chamber on one side.

Its nearest approach to the center of the 8" flange is 21" horizontally and 12" vertically (below) from the center of the 8" flange. The bench extends 8" beyond the flange. An existing wall is 51" from the flange and perpendicular to the axis of the prep chamber. These measurements are believed to be accurate to within  $\pm 0.5$ " (estimated). However, this is not expected to be a constraint, since NRL's laboratory will most likely need to be re-arranged in any event.

e. Can you provide a drawing of the V80 wafer carrier?

A drawing of the VG80H wafer carrier will be posted to NRL's website on Monday, August 18, 2008. The wafer is carried horizontally (epi face down) on a trolley system. Transfer to and from the trolley is accomplished with wobble sticks.

3. Can you grant an extension to the due date until August 25, 2008?

No. The solicitation will be extended until 4:00 pm. on Thursday, August 21, 2008.

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**Opportunity History**

- **Original Synopsis**  
*Combined Synopsis/Solicitation*  
Aug 01, 2008  
7:00 pm
- **Changed**  
Aug 14, 2008  
10:35 am