

**Design Integration**

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T. Brown

*Design Integration Job Manager*

**Design Integration**



Responsibilities include:

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* Configuration development and integration support for all

design and construction activities.

* Administering the CAD database of project models and

drawings. Reviewing and promoting CAD models and

drawings. Establishing Intralink procedures and

privileges.

* Providing support to the metrology and dimensional

control efforts by analyzing metrology data in conjunction

with CAD models of the parts and assemblies

**Configuration development and integration support**



**of design activities.**

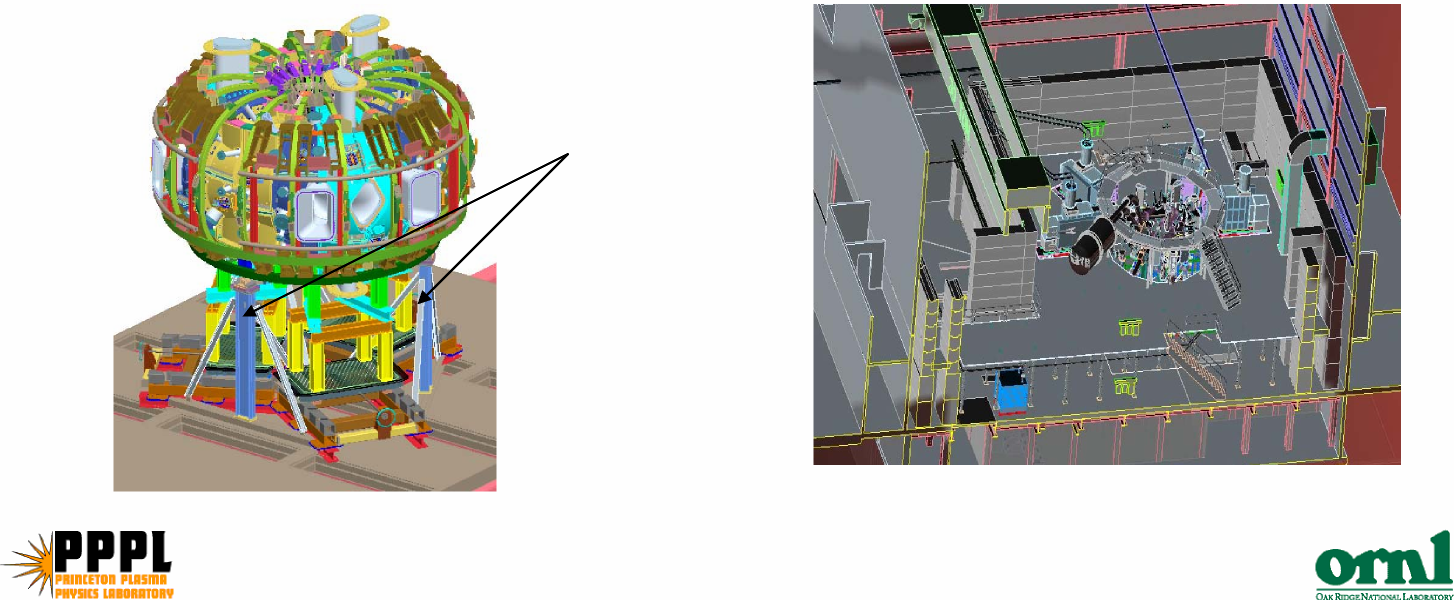


**DI activates are used:**

* In support of ORNL in developing the device core component details
* Development of the test cell general arrangement, and
* The machine assembly design and assembly sequence plan

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Permanent   
machine   
supports



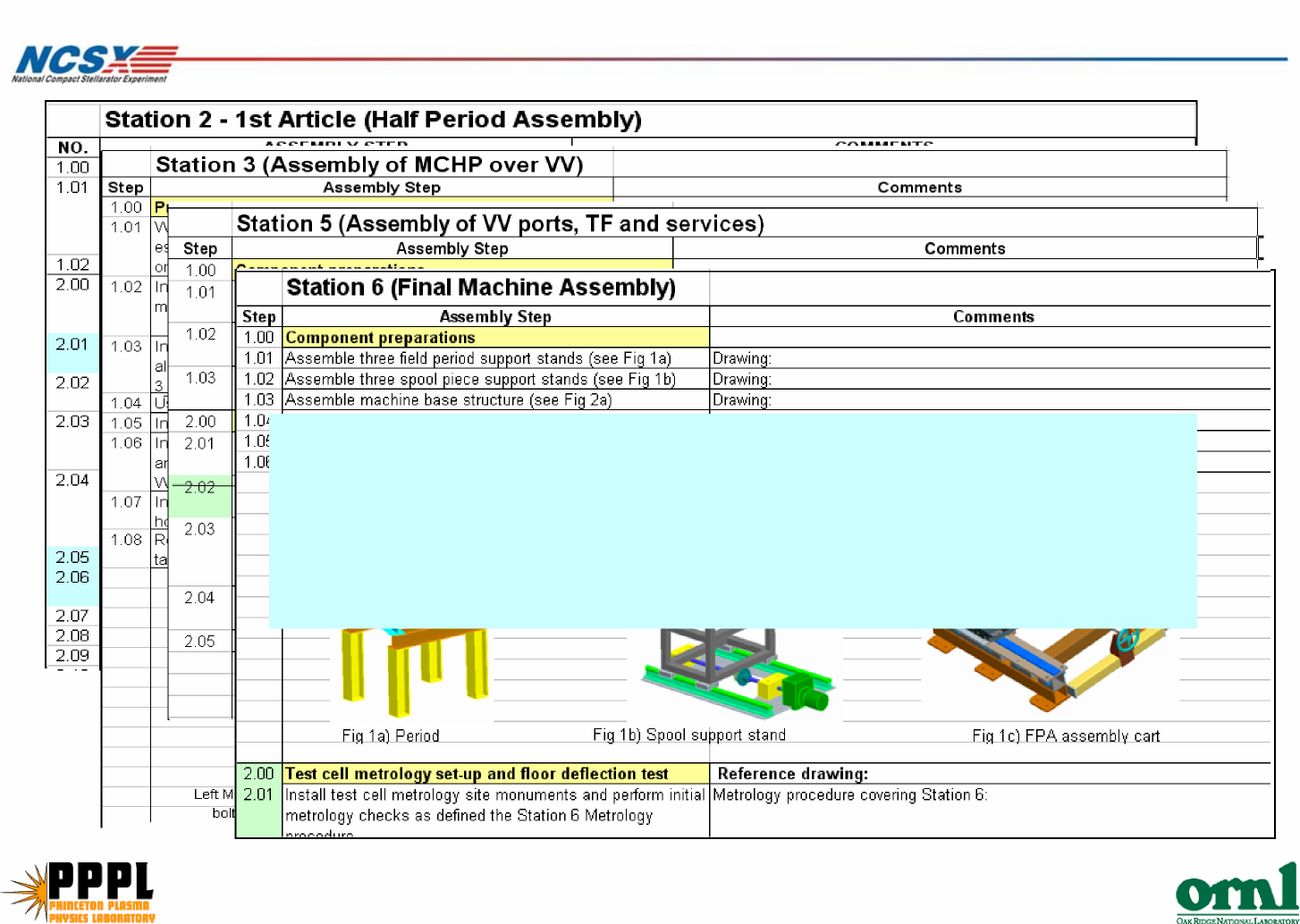
Detailed assembly steps for Stations 2, 3, 5 and 6 have

been developed and forms the basis for the assembly

estimates generated by Mike and Erik.

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**Rev 10 of the assembly sequence plan issued**



**Administering the CAD database of project**

**models and drawings**



**A centralized 3D modeling of the device core and**

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**facility is maintained using Pro/Intralink.**

* The CAD database is accessible to all design staff here at

PPPL and at ORNL.

* The CAD modeling and data management system allows

timely development and view of physical details and

interfaces.

* Insertion of As-Built component conditions allows

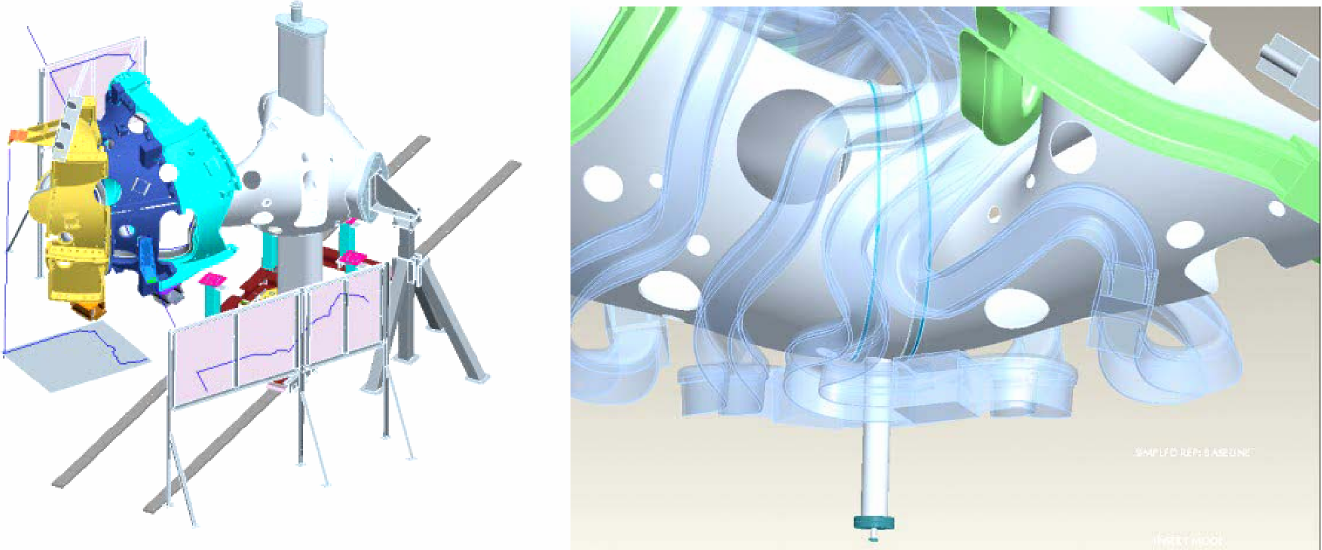
assembly simulation models to be run to view critical

interfacing areas to aid machine assembly activities.

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|  |  |  | **Assembly simulation clearance studies** | | | | | | | | | | | | | | | | | |
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**Station 3 assembly Final machine assembly**

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* analyzing metrology data in conjunction with CAD models of the

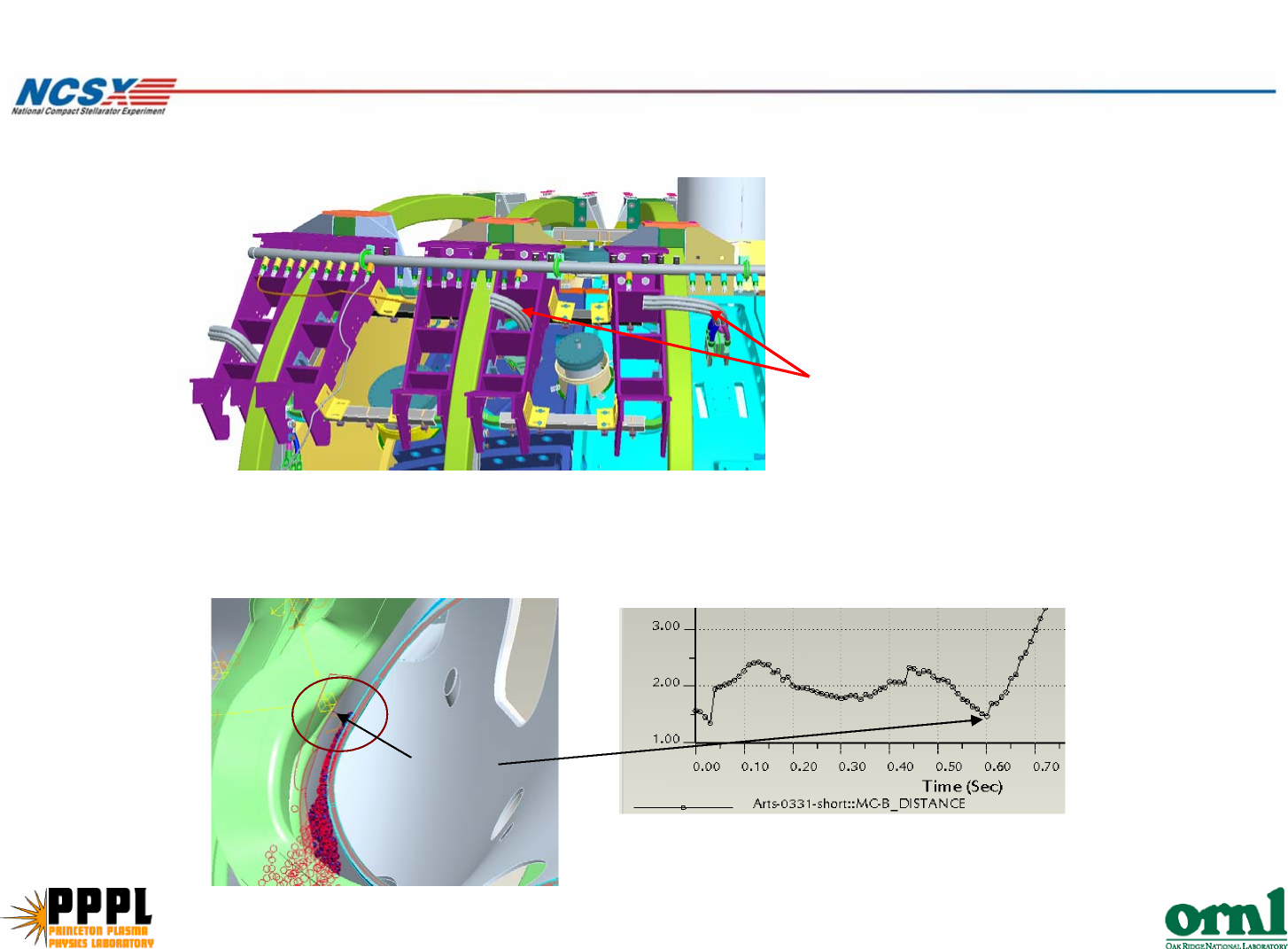
parts and assemblies

* Continue to review component interfaces

**Continue to review interfaces and support the**

**metrology and dimensional control efforts**

**Added lead stems to   
improve assembly features   
and schedule**



**Manpower Staffing**

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