INTERFACE CONTROL DOCUMENT TITLE AND APPROVAL PAGE (Page 1)				
ICD Number: ICD-130-310-0002		Primary Author: B. Stratton		
Impacted WBS Elements: WBS-3 toWBS-13		Type of Interface: Mechanical/Envelope Interface		
Description of Interfac	e:	•		
coils. One sensor loop i	s required for each of the TF ng the plasma. One sensor leads	d on the TF, PF (including soler F, PF, and external trim coils. Toop shall be placed in each ga	hese loops shall be on	
Record of Revisions  Revision Number	Des	cription	Date	
0	Initial Issue	СПРИОП	April 14, 2003	
1	Defined responsibilitie	s of WBS3 and WBS13	April 28, 2003	
2		or sensor loop termination	May 23, 2003	
Approvals  WBS Manager:		WBS Manager:		
Project Engineer:		Project Engineer:		
Systems Engineering	Support Manager:			

## **ICD DETAIL SHEET**

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(Use Continuation Sheets as Necessary to Include the Following Applicable Information)

Scope	of	Interfac	ce:

This interface impacts the design and fabrication of the TF, PF (including solenoid), and external trim coils (WBS13) and magnetics diagnostics (WBS3).

## Equipment and Responsibility List: Conventional Coils (WBS 13): Kalish Magnetics Diagnostics (WBS 3): Johnson Related ICDs:

**Notes and Abbreviations:** 

**Interface Block Diagrams:** 

## **Installation Information:**

The co-wound sensor loops will be installed as part of the fabrication of the TF, PF (including solenoid), and external trim coils. The sensor loops will be held in place by either the epoxy impregnation or insulating tape used in the coil fabrication. Installation of the sensor loops will be the responsibility of WBS14. This installation, as part of coil manufacture, shall include lead termination at the coil casing (or boundary). The leads are to be terminated in a heavy duty structure, rigidly attached to the coil and capable of protecting the leads from breakage for the coil lifetime. The dual sensors are for redundancy and the terminating structures should be appropriate to this function. All other work related to these sensor loops (e. g., connections to instrumentation) will be the responsibility of WBS3.

## Other Pertinent Information:

Cable type for sensor loops to be determined. The reliability of the sensor loops shall be at the same level as the reliability of the TF, PF, and trim coils.