

DIAGNOSTIC CHECKLIST

TITLE: V. A. Soukhanovskii

AUTHORS: Divertor detachment in highly-shaped high-performance plasmas

No. **OP-XP-814**

DATE:

Diagnostic	Need	Want	Conditions
Bolometer – tangential array	x		
Bolometer – divertor	x		
CHERS – toroidal	x		
CHERS – poloidal	x		
Divertor fast camera		x	
Dust detector		x	
EBW radiometers			
Edge deposition monitors		x	
Edge neutral density diag.			
Edge pressure gauges	x		
Edge rotation diagnostic	x		
Fast ion D_alpha - FIDA			
Fast lost ion probes - IFLIP			
Fast lost ion probes - SFLIP			
Filterscopes	x		
FIReTIP	x		
Gas puff imaging	x		
D α , D γ , CIII cameras - 1D	x		
High-k scattering			
Infrared cameras	x		
Interferometer - 1 mm			
Langmuir probes - divertor	x		
Langmuir probes - BEaP		x	
Langmuir probes – RF ant.			
Magnetics – Diamagnetism		x	
Magnetics - Flux loops		x	
Magnetics - Locked modes		x	
Magnetics - Pickup coils		x	
Magnetics - Rogowski coils		x	
Magnetics – Halo currents			

Diagnostic	Need	Want	Conditions
Magnetics - RWM sensors			
Mirnov coils – high f.			
Mirnov coils – poloidal array		x	
Mirnov coils – toroidal array		x	
Mirnov coils – 3-axis proto.			
MSE		x	
NPA – ExB scanning			
NPA – solid state			
Neutron measurements			
Plasma TV	x		
Reciprocating probe			
Reflectometer – 65GHz			
Reflectometer – correlation			
Reflectometer – FM/CW			
Reflectometer – fixed f			
Reflectometer – SOL		x	
RF edge probes			
Spectrometer – SPRED	x		
Spectrometer – VIPS	x		
SWIFT – 2D flow		x	
Thomson scattering	x		
Ultrasoft X-ray arrays		x	
Ultrasoft X-rays – bicolor		x	
Ultrasoft X-rays – TG spectr.		x	
Visible bremsstrahlung det.	x		
X-ray crystal spectrom'r - H			
X-ray crystal spectrom'r - V			
X-ray fast pinhole camera			
X-ray spectrometer - XEUS			