DIAGNOSTIC CHECKLIST

TITLE: Neutral Beam Ion Loss During Energetic Particle Mode Bursts — No. **OP-XP-**

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

Diagnostic	Need	Want	Conditions
Magnetics – Halo currents		**X**	

Diagnostic	Need	Want	Conditions
Magnetics - RWM sensors			
Mirnov coils – high f.		**X**	
Mirnov coils – poloidal array	**X**		
Mirnov coils – toroidal array	**X**		
Mirnov coils – 3-axis proto.			
MSE	**X**		
NPA – ExB scanning	**X**		
NPA – solid state	**X**		
Neutron measurements	**X**		
Plasma TV		**X**	
Reciprocating probe			
Reflectometer – 65GHz	**X**		
Reflectometer – correlation	**X**		
Reflectometer – FM/CW	**X**		
Reflectometer – fixed f	**X**		
Reflectometer – SOL	**X**		
RF edge probes			
Spectrometer – SPRED			
Spectrometer – VIPS			
SWIFT – 2D flow			
Thomson scattering	**X**		
Ultrasoft X-ray arrays	**X**		
Ultrasoft X-rays – bicolor	**X**		
Ultrasoft X-rays – TG spectr.			
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			