

VISIBLE CAMERA															FY02 rates		
WBS 361	RRM	EEEM	ECEM	EMEM	ERSM	EESM	ECTB	EETB	D*DM	EMSM	TRAVEL	STKRM	M&S	Unloaded	Loaded		
Visible cameras (3 wide angle views)	126	0	20	60	0	0	0	0	0	96	0	0	42600	64,947.20	90		
<b>Preliminary design (Title I)</b>															0.00		
preliminary design of view	20													1,800.00	2		
															0.00		
<b>Final design (Title II)</b>															0.00		
design magnetic shield	8			20										2,288.60	3		
design mounting fixture				20										1,568.60	2		
															0.00		
<b>Lab Fab/Assembly/Installation (Title III)</b>															0.00		
procure lens	8												\$500	1,220.00	1		
procure cameras,PCs, cables, etc	40												\$40,000	43,600.00	55		
procure filter	8												\$700	1,420.00	2		
procure color monitor													\$1,000	1,000.00	1		
procure soft iron				4									\$400	713.72	1		
fab magnetic shield				4						32				1,939.32	3		
fab mounting fixture				4						32				1,939.32	3		
Install mounting fixture, shield and camera	8			8						8				1,753.84	2		
test cameras w local control with in vessel illum.	24									24				3,379.20	5		
test triggering and data archiving playback	10		20											2,324.60	3		
															FY02 rates		
	RRM	EEEM	ECEM	EMEM	ERSM	EESM	ECTB	EETB	D*DM	EMSM	TRAVEL	STKRM	M&S	Unloaded	Loaded		
<b>Total PPPL Resources</b>	<b>126</b>	<b>0</b>	<b>20</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>\$42,600</b>	<b>64,947.20</b>	<b>90</b>		
															<b>FY02 RATES</b>		
													Base	Loaded	DEM		
Assumptions													E A Div Engineer	EAEM	\$76.28	132.61	LEAE
													Computer Div Engineer	ECEM	\$71.23	118.95	LECE
1) 1 B/W camera capable of greater than or equal to 1000 Hz full frame operation will be purchased													Computer Div SL&S	ECSM	\$50.18	83.79	LECS
2) PC with frame grabbers and extra memory will be purchased													Computer DivTech	ECTB	\$36.18	60.42	LECT
3) Camera to be mounted directly (no fiber optic bundle) to NB port (tangential view outside of cryostat)													EE Div Engineer	EEEM	\$75.61	125.68	LEEE
4) Assumes that local magnetic field is needed.													EE Div SL&S	EESM	\$52.75	87.68	LEES
5) No shutter in this estimate													EE DivTech	EETB	\$37.43	62.22	LEET
6) No local temperature control provided.													physics	RRM	\$90.00	149.60	LERE
													RF SL&S	ERSM	\$50.18	83.41	LERS
													RF Tech	ERTB	\$36.18	60.14	LERT
													ME Engineer	EMEM	\$78.43	129.77	LEME
													ME Machinist	EMNB	\$50.80	84.05	LEMN
													ME SL&S	EMSM	\$50.80	84.05	LEMS
													ME Tech	EMTB	\$33.49	55.41	LEMT
													Drafting Monthly	D_DM	\$48.03	83.50	LD_DM
													M&S Purchases	MS(41)	M&S \$\$	1.25	MSGA
													Stockroom Withdrawals	STKR(37)	STKR\$\$	1.19	SRGA
													Travel	TVL(35)	TVL\$\$	1.19	TVLG
													Des & Anlys Div Burden	EABUR	14.00%		
													Comp Sys Div Burden	ECBUR	9.50%		
													Tech Sys Div Burden	EEBUR	9.00%		
													Fab Eng Div Burden	EMBUR	8.50%		
													Operating G&A	G_A	52.50%		
													Operating G&A: M&S	G_A_M	19.00%		
WBS_361_PDR 1/12/2004 11:19 AM													Escalation Multiplier from FY01	ESC	1.0000		