		Geometry:		Physics:	
Run title> i-mode 2	1019 pmu	R_0	= 9.955 m	I_p	= 21.37 MA
PROCESS Version> 1.0.16		a	= 3.211 m	Vacuum B_T at R_0	= 4.918 T
Date:> 16/08/20)19	Α	= 3.1	9 95	= 3
Time:> 14:58		K ₉₅	= 1.65	$oldsymbol{eta}_{N}$, thermal	$= 1.439 \% \text{ m T MA}^{-1}$
User:> apearce		δ_{95}	= 0.3333	$oldsymbol{eta}_{N}$, total	$= 1.652 \% \text{ m T MA}^{-1}$
Optimising:> Plasma r	najor radius	Surface area	$= 1760 \text{ m}^2$	$oldsymbol{eta_P}$, thermal	= 0.5679
Plasma composition:		Plasma volume	$= 3407 \text{ m}^3$	$oldsymbol{eta_P}$, total	= 0.6521
Number densities relative to electron density:		No. of TF coils	= 16	< t _e >	= 10.35 keV
D + T	= 0.8996	inboard blanket+shield	= 1.055 m	< n _e >	$= 5.412e+19 \text{ m}^{-3}$
He	= 0.05	ouboard blanket+shield	= 1.782 m	$< n_{\rm e, line} > /n_{\rm G}$	= 0.9
Xe	= 8.828e-06	Fusion power	= 1274 MW	$T_{e0}/ < T_e >$	= 2.297
				$n_{\rm e0}/< n_{\rm e,vol}>$	= 1.287
				$Z_{ m eff}$	= 1.119
Colour Legend: ITR				$n_Z/ < n_{\rm e, vol} >$	= 8.828e-06
OP				$ au_e$	= 3.69 s
				H-factor	= 0.8
				Scaling law	= IPB98(y,2)
Coil currents etc:		Power flows:	0 F22F MM=2	Electron Cyclotron Current Drive:	FO MW
PF 1	= 24.03 MA	Nominal neutron wall load	$= 0.5325 \text{ MW m}^{-2}$	Steady state auxiliary power	= 50 MW
PF 3	= -8.484 MA	Normalised radius of 'core' region		Power for heating only	= 50 MW
PF 5	= -6.022 MA	Electron density at pedestal	$= 4.287e + 19 \text{ m}^{-3}$	Bootstrap fraction	= 0.001
Startup flux swing	= 448.3 Wb	r/a at density pedestal	= 0.94	Auxiliary fraction	= 0
Available flux swing	= -1084 Wb	Helium fraction	= 0.05	Inductive fraction	= 0.999
Burn time	= 4.353 hrs	Core radiation	= 24.97 MW	Plasma heating used for H facto	
TF coil type is WST Nb3Sn		Total radiation	= 37.57 MW	P _{div} R ₀ P _{div}	= 25.72 MW m ⁻¹
• •		Nuclear heating in blanket	= 965.6 MW	$\langle n \rangle \kappa_0$	$= 47.52 \times 10^{-20} \text{ MW m}^2$
Peak field at conductor (w. rip.)		Nuclear heating in shield	= 1.303 MW	$\frac{P_{\text{div}}}{P_{\text{LH}}}$	= 1
I/I _{crit}	= 0.6724	Power to divertor	= 256 MW	H* (non-rad. corr.)	= 0.7672
TF Temperature margin	=ERROR! Var missing	H-mode threshold	= 256 MW	Costs	
CS Temperature margin	= 1.712 K	Divertor life	= 1.573 years		EDDODIN ' '
Conduit Von Mises stress	= 5.607e+08 Pa	Primary (high grade) heat	= 1686 MW	Cost of electricity	=ERROR! Var missing
Case Von Mises stress	= 6.451e+08 Pa	Gross cycle efficiency	= 37.5 %		
Allowable stress	= 6.6e+08 Pa	Net cycle efficiency	= 32 %		
Mass per TF coil	= 1.222e+06 kg	Gross electric power	= 632.3 MW		
		Net electric power	= 235.7 MW		
		Fusion-to-electric efficiency $\frac{P_{\rm e,net}}{P_{\rm fus}}$	= 18.5 %		

