		Geometry:		Physics:	
Run title> i-mode 2	2019 pmu	R_0	= 9.955 m	$I_{ ho}$	= 21.37 MA
PROCESS Version> 1.0.17		a	= 3.211 m	Vacuum B_T at R_0	= 4.918 T
Date:> 18/03/20	020	Α	= 3.1	9 95	= 3
Time:> 10:24		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	major 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 >	$= 5.412e+19 \text{ m}^{-3}$
Не	= 0.05	ouboard blanket+shield	= 1.782 m	$< n_{\rm e, line} > /n_G$	= 0.9
Xe	= 8.828e-06	Fusion power	= 1274 MW	$T_{e0}/< T_e>$	= 2.297
				$n_{e0}/< n_{e, \text{vol}}>$	= 1.287
				Z_{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:	- 0.5325 MW m=2	Electron Cyclotron Current Drive:	_ FO MW
PF 1	= 23.51 MA	Nominal neutron wall load	= 0.5325 MW m ⁻²	Steady state auxiliary power	= 50 MW
PF 3	= -8.476 MA	Normalised radius of 'core' region		Power for heating only	= 50 MW
PF 5	= -5.917 MA	Electron density at pedestal	$= 4.287e + 19 \text{ m}^{-3}$	Bootstrap fraction	= 0.2238
Startup flux swing	= 448.3 Wb	r/a at density pedestal	= 0.94	Auxiliary fraction	= 0
Available flux swing	= -1048 Wb	Helium fraction	= 0.05	Inductive fraction	= 0.999
Burn time	= 4.095 hrs	Core radiation	= 24.97 MW	Plasma heating used for H factor	
TF coil type is WST Nb3Sn		Total radiation	= 37.57 MW	P _{div} R ₀ P _{div}	= 25.72 MW m ⁻¹
	10.40 T	Nuclear heating in blanket	= 965.6 MW	< n > K ₀	$= 47.52 \times 10^{-20} \text{ MW m}^2$
Peak field at conductor (w. rip.)		Nuclear heating in shield	= 1.303 MW	P _{div} P _{LH}	= 1
I/I _{crit}	= 0.5555	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	= 1.682 K	Divertor life	= 1.573 years	Cost of alastvisity	- EDDODI Var missing
Conduit Von Mises stress Case Von Mises stress	<pre>=ERROR! Var missing =ERROR! Var missing</pre>	Primary (high grade) heat	= 1686 MW = 37.5 %	Cost of electricity	=ERROR! Var missing
Case von Mises stress	=EKKUK! Val IIIISSIIIU	Gross cycle efficiency	= 37.5 %		
	•	Not cycle officionay	- 32 %		
Allowable stress	= 6.6e+08 Pa	Net cycle efficiency	= 32 % = 632 3 MW		
	•	Gross electric power	= 632.3 MW		
Allowable stress	= 6.6e+08 Pa		= 632.3 MW = 234.3 MW		

