Reactor Loop's Parameters:

	Mass Flow kg/s	Hot C	Hot bar	Cold C	Cold Bar	Fluid numbers are mol fraction
Fuelsalt	2994	704	10.5	564	4.0	NaF-BeF2-ThF4-UF4 76/12/9.5/2.5
Secondary Salt	1534	621	10.5	454	20.0	NaF-BeF2 57/43
Tertiary Salt	1414	598	12.0	344	1.0	NaNO3-KNO3 55/45
Steam Main	225	538	248	288	260	
Steam Reheat	162	538	38	343	39	

The reactor will be coupled to the hydrogen production process by implementing two heat exchangers in the tertiary loop. One of the heat exchanger is the reactors heat transfer to the steam generator and the second heat exchanger will be the indirect connection from the reactor to the hydrogen process. The tertiary salt will transfer heat to a water loop in the hydrogen process. This water loop will carry the necessary heat for the whole hydrogen plant this way eliminating cost and increasing safety.