

3. The method of ~~any one of the previous claims~~ claim 1 wherein the high pressure pump is capable of an outlet pressure of up to about 1,200 psig (about 8.3 MPag).

4. The method of ~~any one of the previous claims~~ claim 3 wherein the replacement furnace tubes are capable of withstanding pressures up to about 1,200 psig (about 8.3 MPag).

5. The method of ~~any one of the previous claims~~ claim 4 wherein the reactor is capable of withstanding pressures up to about 1,200 psig (about 8.3 MPag).

6. The method of ~~any one of the previous claims~~ claim 5 wherein the high pressure compressor is capable of an outlet pressure of up to about 1,200 psig (about 8.3 MPag).

7. The method of ~~any one of the previous claims~~ claim 1 wherein the high pressure compressor is placed in series and downstream of the low pressure recycle compressor.

8. The method of ~~any one of the previous claims~~ claim 1 wherein the high pressure compressor replaces the low pressure recycle compressor.