# PDH Plant Environmentally-Related Process Attribute Summary
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The following table lists the major environmental related elements considered by FPC-TX during the PDH process selection. The comments briefly describe FPC TX's best assessment of the critical environmental attributes for the selected PDH plant process license.

| Process Element | Attribute | Comments |
|---|---|---|
| Catalyst Base | Platinum | Environmental concerns are minimized with the use of a platinum catalyst. |
| Catalyst Regeneration | Low Frequency | Less maintenance emissions and reduced risk of equipment malfunction (and related upset emissions) are expected as a result of the low regeneration frequency. |
| Reaction Temperature | Low Reaction Temperature (relative) | Catalyst and equipment fouling tendencies are directly related to reaction temperature. The relatively low reaction temperature is expected to result in less fouling, maintenance (and MSS emissions), and equipment/plant downtime. |
| Maintenance Assessment | Individual Reactor Isolation | The selected process license allows for in-situ (individual) reactor isolation and maintenance which minimizes shutdown and start-up emissions. |
| Start-up Time | Short | Start-up time is directly related to the quantity of start-up emissions. Shorter start-ups are expected to minimize MSS emissions. |