



SUCCESS STORIES

LANGLEY GULCH POWER PLANT: IDAHO

COMBINED CYCLE POWER PLANT

LOCATION NEW PLYMOUTH, ID, U.S.A.
CAPACITY 300 MW OUTPUT
START-UP 2012

VOGT POWER SOLUTION

From Kiewit website: The Langley Gulch Power Plant is located in a high load area for the owner, and it also helps improve the reliability of their entire system, increasing the amount of power available inside their service territory. The plant is vital for continued economic growth in the area by ensuring an adequate, affordable, clean energy supply.

PERFORMANCE MEASUREMENTS

	ENGLISH	METRIC
HP Steam Flow	625,000 lb/h	283,500 kg/h
HP Steam Pressure	2325 psig	160 barg
HP Steam Temperature	1054°F	568°C
RH Steam Flow	690,000 lb/h	312,984 kg/h
RH Steam Pressure	442 psig	30 barg
RH Steam Temperature	1053°F	567°C
IP Steam Flow	89,300 lb/h	40,506 kg/h
IP Steam Pressure	484 psig	33 barg
IP Steam Temperature	645°F	341°C
LP steam Flow	73,200 lb/h	33,204 kg/h
LP Steam Pressure	66 psig	5 barg
LP Steam Temperature	635°F	335°C



PROJECT OVERVIEW

- + **Project name:** Langley Gulch Power Plant
- + **Plant type:** Combined Cycle Power Plant
- + **Customer:** Kiewit
- + **End user:** Idaho Power
- + **Year ordered:** 2009
- + **Operational:** 2012
- + **Gas turbine supplier:** Siemens
- + **Type:** SGT6-5000F (FD3)
- + **Main fuel:** Natural gas
- + **Alternate fuel:** N/A
- + **Number of HRSGs:** 1

HRSG Attributes:

- + **Horizontal, natural circulation**
- + **SMART design**
- + **Three pressure levels + Reheat**
- + **Fired**

