CLAIMS

1. A gas turbine engine (20) comprising:

a bearing compartment (60) having at least one seal (64);

a bearing disposed in the bearing compartment (60);

a deoiler (68) fluidly connected with the bearing compartment (60);

a vacuum generator (170) fluidly connected with the deoiler (68);

an air supply system (176) connected with the vacuum generator (170) for providing air to operate the vacuum generator (170), the air supply system (76; 176) having two sources (24, 84) of the air; and

a controller (94) in communication with the air supply system (176), wherein one of the two air sources is a compressor section (24), the other of the two air sources is an auxiliary power unit (84) and the air supply system (176) includes a check valve (90) disposed between the auxiliary power unit (84) and the vacuum generator (170),

characterized in that:

the air supply system (176) includes a flow-control valve (92) disposed between the compressor section (24) and the vacuum generator (170); and

the air supply system (176) includes a starter air valve (88) disposed between the auxiliary power unit (84) and the vacuum generator (170), and the controller (94) is configured to selectively open and close the flow control valve (92) and starter air valve (88) to switch between the two sources of air based on the operating mode of the engine (20).

2. The gas turbine engine (20) as recited in claim 1, wherein the vacuum generator (170) includes a venturi tube (80).

3. The gas turbine engine (20) as recited in claim 1 or claim 2, wherein the vacuum generator (170) is vented overboard.