



LTJg Larry Goeris keeps a wealth of knowledge and a dose of dry humor readily available for the Engineering Department.

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### *Ready To Fly*

*Three birds in their nest, ready to fly.  
Coupled up to the shafts the plant comes alive.*

*The turbines are fed 1500 gallons of fuel an hour.  
through reduction gears they harness the power.*

*Turning the shafts with controllable pitch.  
They slice through the ice like digging a ditch.*

*The slush in our wake, leaving a trail.  
Proves to the world we have not failed.*

*We in turbine gang can be proud of the job that we do.  
Part of a great team and hell of a CREW.*

MK1 Marvin L. Heeter, MKC Glen West, FN Eric Cheigh, MK3 Juan Juarez,  
FN Larry Bishop

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It's a big ship, someone's got to keep it running.

### Turbine Division

Turbine Gang has only four personnel assigned to this division. These individuals are responsible for taking care of the ships three (Birds) Pratt and Whitney gas turbine engines, three Philadelphia reduction gears, three CPP systems, and all the associated pumps and bearings of the ship's propulsion shafting. That's a lot of gear for only four people!

Some may wonder what this gear does for POLAR SEA. Well, in the simplest terms, the gas turbine engines are airplane engines. Each engine is designed to produce 25,000 hp. Now all that horse power has to be transmitted to the shafts, so we use the reduction gears for that. All the horse power is spinning around on the shafts, and we have to be able to control it, so for that we use the CPP system (controllable pitch propeller system.) This gives the ship the ability to move forward or reverse.

So now you can see when the ship is stuck in that crack and can't get out, who are they going to call? That's right, the people with 75,000 hp on tap. MORE POWER!!!

*- The Turbine Gang*