CFB Shearwater Heliport Conversion

Application of Joint Heater system
New Construction of Taxiways
Complete Reconstruction of Runway existing sub-base & base to remain.
1.08 km – 34.2m wide.
Asphalt Section 120mm – 70/50
Transport Canada Specification

- 5mm finished grade tolerance
- 3mm – 3m straightedge on all areas.
- 98% GMB Mat Compaction
- 97% GMB Joint Density
- Converted to 94% & 93% GMM
- Cut joint specs below 100°C
Joint Heater

- Heat Design equipment
- 4-4ft elements in series
- Trailer Mounted - 4-100lb Propane Cylinders.
- DCC accepted variation for “warm” joint upon outside trial.
- Must cut/mill overnight.
Heater Performance

- Able to reheat joint from 60°C to 150°C at ½ capacity in summer.
- Reheat from cold to 100°C at 3°C and 30km winds.
- Able to reheat old pavement to workable to fix joints, drainage, make surface defect repairs.
Technical Performance

- Mat Density – Base -94.4 Surface 95.1
- Heated Joints - 94.1 no failures
- Cut joints 92.6 - with failures.
- No mill & replace due to density or joint construction (visible)
Financial

- Purchase - $35,000
- Operation $200/day + L&E
- Saved Approx 360mt Asphalt in cut joints = $18,000.
- Cost less than $0.15/m
- Significant operational savings. Days + clean-up costs.