



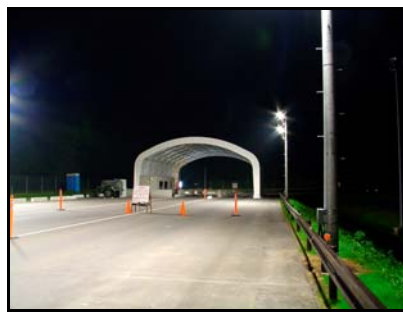
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## Case Study – Misawa AB

When William Bunch, Resource Efficiency Manager (REM) from Tetra Tech, Inc., (Misawa AB) heard from AEE's Brian Douglas what we had done for Miramar MCAS, he contacted us to see if we could also assist them in “Base Entrance Lighting” applications. After discussing the potential "snow load", it was decided to use our 4' arrays to replace the proposed 1,000 watt metal halide system. Biggest reason is better security since our units are "instant-on", produce very high color quality, and provide an awesome 80+% in energy savings.

*Each pole saves nearly \$1,300 annually in energy, and maintenance costs.*



*Colors are very “true”(orange traffic cone, and maroon car with multi-colored kayak atop).*

\*\*\*\*\* Find the blue port-a-potty to the left of the hut in middle photo. \*\*\*\*\*

Each pole uses 4-106 watt #W2PL50, 2 lamp, twin T5 lamped units to replace 2 - 1,000 watt metal halides to produce the energy savings. The utility rate is \$.17 (USD), so the savings is very substantial. Harsh shadows were avoided when using linear sources, which is extremely important in Homeland Security applications. Snow load was a factor in using the 4 light - 4’ arrays vs the 2 light - 8’ arrays.

Note: There are no lights installed yet in the “Inspection Hut”, itself. Ground mounted units will be installed to light the basic area, and really light up under-carriages of vehicles.

See next page for more photos.

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"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many."

# Case Study

Misawa AFB, Japan



**Each pole uses 2-Magnaray® W2PT5048 “arrays”.**

**Total load/pole is 424 watts with ballast loss.**

**Lamps maintain 90% light output for 90% life, which is 27,000 hours using a program rapid start ballast, and 2 twin T5 lamps, when operated on a 12+ hour burn cycle.**

**Close up of mounting detail for Magnaray® W2PT5048 arrays, using “off the shelf” pole mounting hardware”.**

**Poles are round, hollow concrete, both fixtures and poles designed for years of service.**

**Fixtures have 5 year written warranty (lamps/abuse excepted), which normally translates into 20-25 year useful life.**



**See previous page for more details, and night time photos.**

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