

NOMINATION FOR AWARD

AWARD General Thomas D. White Pollution Prevention Acquisition Award		CATEGORY (If Applicable) Team	AWARD PERIOD 1 Oct 01 - 30 Sep 03
RANK/NAME OF NOMINEE (First, Middle Initial, Last)		SSN (Enter Last 4 Only)	MAJCOM, FOA, OR DRU AFMC
DAFSC/DUTY TITLE	NOMINEE'S TELEPHONE (DSN & Commercial)		
UNIT/OFFICE SYMBOL/STREET ADDRESS/STATE/ZIP CODE Wright-Patterson AFB, OH 45433-7626			
RANK/NAME OF UNIT COMMANDER (First, Middle Initial, Last) /COMMANDER'S TELEPHONE (DSN & Commercial)			
SPECIFIC ACCOMPLISHMENTS (Use single-spaced, bullet format)			
<p>INCORPORATING ENVIRONMENTAL ANALYSIS INTO ACQUISITION DECISION MAKING PROCESS:</p> <ul style="list-style-type: none"> - Improving Air Force Weapon Systems through comprehensive systems engineering processes! - Developed Programmatic Environmental Safety & Health Evaluation tool to assess risk prior to full buy-in - Administered Environmental Working Groups across major program offices, integrating P2 within acquisition - Created Acquisition P2 Tech Transition Roadmap providing "one stop shopping" for analysis of alternatives - Created Emerging Technologies Integrated Product Team--assisting acquisition program managers to identify P2 technologies that pose the least program implementation risk with the greatest rate of return on investment - Implementing Environmental Management System (EMS) for decisions across ASC weapon system programs <ul style="list-style-type: none"> -- Provides information to analyze environmental hazards posed by weapon system production and sustainment - Conducted ESOH analysis, identified over 200 new needs that were loaded into environmental plans database <p>IDENTIFYING AND IMPLEMENTING MATERIAL SUBSTITUTIONS:</p> <ul style="list-style-type: none"> - Leading transition of Environmentally Advantaged Radar Absorbing Material (RAM) coating to cut pollutants <ul style="list-style-type: none"> -- Saves B-2 program \$3.9 million per maintenance cycle; cuts labor by 75% and reduces air pollution by 70% - Validated sputter coat aluminum for corrosion protection of landing gear using ion vapor deposition technology <ul style="list-style-type: none"> -- Material substitution of aluminum eliminates over 150,000 gallons of cadmium/chromium and \$400K/year - Led thin film applique demonstration program including supersonic flight tests on fighters, gathering flight data <ul style="list-style-type: none"> -- Result--applique is the topcoat of choice for JSF, eliminating sprayed-on chromium based paint systems - Implemented use of Matte Topcoat Cleaner for multiple weapon systems, including the C-17, C-130 and F-15 <ul style="list-style-type: none"> -- Increases duration between repaints and touch-ups, resulting in significant reduction in HAZMAT usage - Led effort to find non-ODS wipe solvent cleaner, implemented substitute for CFC-113, a major Class I ODS - Reduced ODSs by 628,000 lbs/year (98%), eliminated 4,189 call-outs for HAZMATs in 416 technical orders - Replaced isopropyl alcohol and HCFC-141b (Class II ODC) with high velocity water for cleaning jet engines <p>IDENTIFYING AND IMPLEMENTING PROCESS MODIFICATIONS AND IMPROVEMENTS:</p> <ul style="list-style-type: none"> - Implementing robotic laser work cell for stripping powder paints from composite surfaces--replacing current process of high pressure bead blasting which is labor intensive, hazardous, and creates a heavy waste stream - Implemented High Velocity Oxygen Fuel thermal spray coatings to replace the volatile wet hard chrome plating - Applied recycling process for jet engine turbine blades, saving \$36M in life cycle costs for JSF program alone - Worked with AFRL and paint vendors to improve topcoat, Life Cycle Cost savings of over \$100M for C-17 - Implemented coolant recycler at machine shops eliminating 400,000 gallons/year of contaminated rinsewater - Substituted CO2 for VOC solvents in "wet" painting of missiles, eliminated 100% (4,400 lbs/yr) of HAP/VOC - Implemented Hydraulic Fluid Purification systems to reduce our #2 waste stream and save \$12M-\$15M a year <p>IMPROVING MATERIAL MANAGEMENT:</p> <ul style="list-style-type: none"> - Tracking weapon system baselined HAZMATs for reduction in P2 Cross Reference Systems across each major program office--comprehensive database of HAZMATs on board or used throughout life of the weapon - Developing a database that provides, in one location, critical information about the characteristics, quantities, and management requirements of materials containing HAZMATs associated with aircraft throughout their life - Managing comprehensive de-icing materials compatibility tests to determine impact to coatings on airframe - Created web based searchable solutions database containing 300+ weapon system P2 tech transition projects <p>PROMOTING POLLUTION PREVENTION AWARENESS:</p> <ul style="list-style-type: none"> - Displayed info at ten major environmental conferences to more than 20,000 government and industry conferees - Manager and Editor of only AF environmental publication "The Monitor", sent to 1,000+ subscribers quarterly - Presented technical papers (e.g. De-icing, coatings, P2 solutions databases) at government and industry forums - Educated over 1,200 ASC engineers in Operational Risk Management and its integration in systems designs - Developed new AFIT school house weapon systems pollution prevention lessons for acquisition managers - Institutionalized Eco-Effective Design/Sustainment concepts at AF plants, ensure environmental considerations 			