

Electrospark Deposition Project

- *ESTCP-Funded Project for FY2002-2005 (Project end date is March 2006)*
- *Title: “Electrospark Deposition for Depot- and Field-Level Component Repair, and Replacement of Hard Chromium Plating”*
- *Since project being executed in partnership with PEWG, emphasis is on gas turbine engine (GTE) applications*
- *Process Optimization Plan for IN-718 developed by Norma Price of ASAP in conjunction with Edison Welding Institute; Portland State University performing materials analysis*
- *Materials Joint Test Protocol for GTE applications developed by Norma Price with input from stakeholders (Oklahoma City ALC, NAVAIR and engine OEMs)*
- *Demonstration Plan that incorporates Op Plan and JTP submitted to ESTCP in May 2004*

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- *Naval Surface Warfare Center – Carderock (Denise Aylor and Rich Hays) has been conducted research on ESD for ship applications under ONR funding; partnering with HCAT to expand studies*
- *Army Research Laboratory (Vic Champagne and Bob Lempicki) and Anniston Army Depot (Tony Pollard) working to develop Army applications as part of ESTCP project*
- *Naval Aviation Depot North Island (Cid Richards) developing applications for Navy aircraft other than engines as part of ESTCP project; collaborative effort with Pacific Northwest National Laboratory (Jeff Bailey and Roger Johnson), with funding being provided by PNNL*

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- *HCAT purchased ESD units from ASAP and had them installed at NADEP North Island and Anniston Army Depot (included training of depot personnel)*
- *PEWG acquired ESD unit for Oklahoma City ALC*
- *Army Research Laboratory has ESD unit for conducting studies to support ANAD*