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Arctic Scan Eagle

Horner, Doug; Monarrez, Aurelio

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Scan Eagle Unmanned Aerial Vehicle

- Identify material rated at or below -40°C to replace existing fuel and pitot lines
 - Develop a solution for keeping engine temperature above 140°C and below 180°C
 - Establish and approach for eliminating wing icing during flight
 - Use an environmental chamber to validate solutions
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- Scan Eagle is currently in use by the US Navy
 - Current Scan Eagles are restricted by environmental constraints
 - Develop and implement solutions for flying Scan Eagle in the Arctic
 - Validate solutions
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- Research will have an immediate operational impact for the US Navy
 - This capability is a known requirement for Naval Special Warfare
 - This research provides students with relevant and unique advanced education and research in accordance with NPS mission statement
 - Research provides a source for unmanned systems employment concepts for operations as per the specific CRUSER Goals