



# **Kennedy Space Center's Coatings Management Program**

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# KSC Overview

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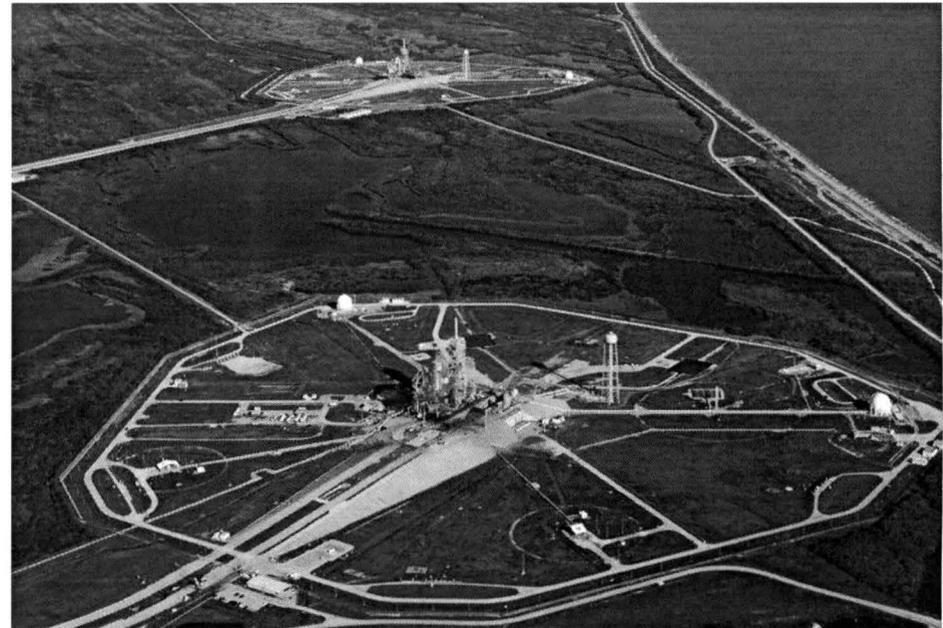


◆ **Kennedy Space Center is located on the east coast of Central Florida with much of its infrastructure in close proximity to the ocean**

- Launch pads are located approximately  $\frac{1}{4}$  mile from the ocean

◆ **Extremely corrosive environment**

- Salt Spray
- Humidity
- Acid residue from Solid Rocket Boosters





### ◆ **Started to use Coating Management software in 2000**

- Pilot project consisted of Launch Complex 39B
- By 2001, all major structures were baselined
  - Baseline included:
    - Area calculations
    - Dry Film Thickness Readings
    - Condition Photos
    - Coating evaluations
- In 2012, 1.3 million square feet of surface area was inspected

### ◆ **By the end of 2012, over 100,000 photos and data readings have been taken**

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## Start Up Issues and Concerns

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### ◆ Initial start up cost and time

- Purchase software, servers, inspection equipment
- Customize program to KSC's needs and requirements
- Develop inspection plans and ratings
- Baseline all systems

### ◆ Lack of corrosion control awareness

- Corrosion training for system engineers

### ◆ End user support

- Road shows to demonstrate benefits of program
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## ◆ **Prioritization**

## ◆ **Centralized corrosion control program**

- Inspections are done by single independent group eliminating system bias

## ◆ **Better budget planning**

- Systems prioritized
- Accurate square footage readings

## ◆ **Lower costs in future**

- Reactive vs Proactive
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## Benefits Continued

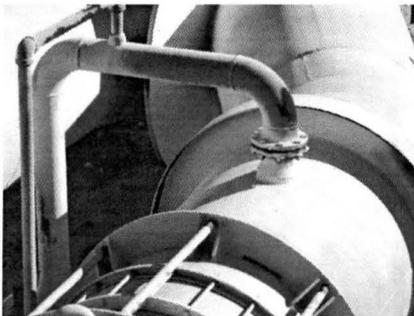
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### ◆ Less downtime

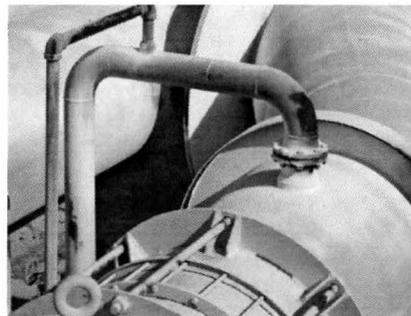
- Better plan outages and shutdown periods

### ◆ Trending and product evaluation

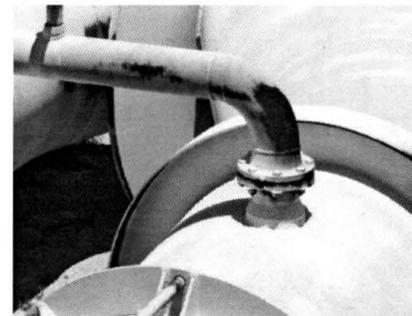
### ◆ Photo evaluations



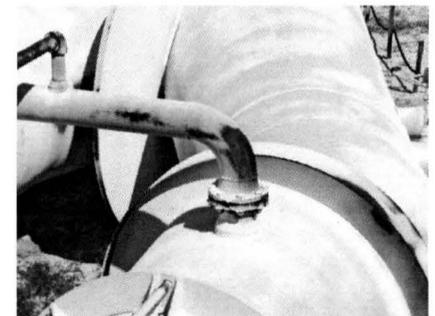
2006



2007



2008



2009

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