

A Presentation for



NACE[®]
INTERNATIONAL



Kevin Turpin

- CEO and founder of PK Companies since 1997
- 15 years of asset Integrity Inspection in the Oil, Gas and Chemical Industry
- Performed Inspections On and Offshore using PK's patented mobile technology.
- Currently Working with **BP** and **TOI** to Create Mobile Technology for Offshore Data Collection.
- Member of NACE and O-CAT Certified #36068 (Offshore Corrosion Assessment Training)
- +5 Years Developing Mobile Inspection and Data Collection Solutions for Global Leaders in the Oil, Gas and Chemical Industry.



- PKI ONSITE
- PKI SHIPPED
- PK SAFETY
- PK TECHNOLOGY



- PK TECHNOLOGY



Mission Statement: **PK Technology Resolves Compliance Issues Into Technology Solutions.**

- **PK Technology Locations**

- Houston, Texas
- Aberdeen, United Kingdom
- Wichita, Kansas
- Perth, Australia

- **Currently Providing Fireproofing & Industrial Coating Inspections Services and Technology Programs for Onshore/Offshore Facilities.**

- **Employs All Software Development In-House and Technical Experts in the Oil and Gas Industry.**

- **First to Industry in the Oil and Gas Markets, with a Cloud-Based Intelligent Corrosion Integrity Management System .**

- **Specializing in Corrosion Compliance Regulations and Safety within the Oil and Gas Industry.**



intelliCote™

COATING INSPECTION

Why Go Mobile?

Reduce Paperwork?



Organized?



- or Do You Have Your Own
Systematic Method in Place?

Reduce Data Entry?



Redneck Wireless Computer

How Do You Use this Inspection Information...Effectively?



How Do You Use this Inspection Information...Effectively?

How Do You Add info?

How Do You Address and Fix
Compliance Issues?

How Do Have Multiple
Inspectors Enter Info?

How Do You Show Progress
After Repair to Auditors?

How Do You Update Fixes or
Update Asset Degradation?

How Do You Make an
Accurate Budget?



intelliCote™

COATING INSPECTION

The Mobile Coating Integrity Management Solution.

iPad

10:25 AM

91%



Email Address

Password

SIGN IN





Companies and Facilities

Update Plants

PLANT
5PLANT
15PLANT
26PLANT
39

Companies

Update Companies



Skelly Oil

SELECT

ExxonMobil

PLANT 39

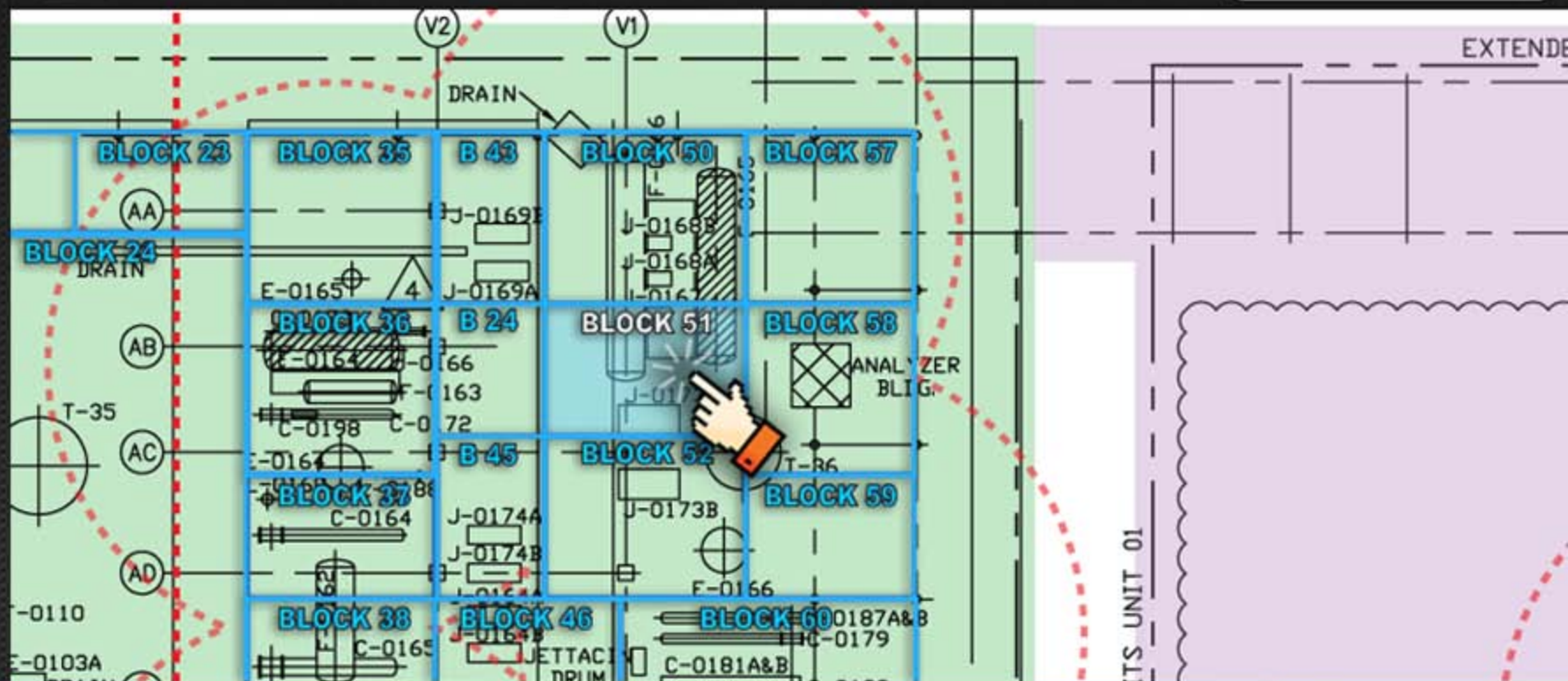


UNIT	BLOCKS	ASSETS
CRUDE	12	288
SRU	16	462
GOFINER	4	186
FCCU	8	438
CRU	9	326
COKER	17	238



Back

PLANT 39



ASSET ID	INSPECTION ID	ASSET TYPE	BLOCK LOCATION	
0010	ONIMP-FCCU-01-L1-0010-2012A	01	Column	START INSPECTION
0011	ONIMP-FCCU-01-L1-0011-2012A	01	Column	START INSPECTION
0012	ONIMP-FCCU-01-L1-0012-2012A	01	Column	START INSPECTION
0013	ONIMP-FCCU-01-L1-0013-2012A	01	Column	START INSPECTION
0014	ONIMP-FCCU-01-L1-0014-2012A	01	Column	START INSPECTION



Inspecting Asset:0001

INCOMPLETE Finish

Inspection ID: dff-LD-01-L1-0001-2013A Asset Number: 0001 Asset Type: Beam
 Unit: Lower Deck Block Location: 01 Level: Level 1
 GPS Location: 0 . 0

APPROXIMATE SURFACE AREA OF EXISTING COATING:

Total Square feet of Coating: [Yellow Input Field]

INSPECTION PHOTOS: [Camera Icon] RECEIVE PHOTOS OFF

EXISTING COATING CONDITION ASSESSMENTS:

COATING SYSTEM #1 Corrosion Assessment

Yes No Critical Area of Concern? High Traffic Area? Single Multiple

Yes No Does the Coating have a Breakdown of >2%? 0-20% >20%

Yes No Is there corrosion with loss of section? Mild Moderate

Yes No Is there General Surface Rust? Scattered Localized

Yes No Is there greater than minor consequence upon failure? Serious Catastrophic

Yes No Is there Cracking, Cracking, or Flaking? Mild Moderate

Yes No Is there Erosion, Abrasion, or Physical Damage? Mild Moderate

Yes No Is there Blistering, Adhesion, or Lamination? Mild Moderate

Yes No Is there any Cathodic Disbondment? Mild Moderate

Yes No Is there any Rash Rusting, Rust Scaling, or Rust Spotting? Mild Moderate

Yes No Is there any Edge Corrosion, or Corrosion Under Creep? Mild Moderate

Yes No Is the Environment Open?

Yes No Is the coating absent?

OFF There are No Anomalies.

Percent of Surface Area Repair to Bring to Compliance:
 100% 75% 50% 25% 10% 5% None

INSPECTED DRY FILM THICKNESS OF COATING:

	DFT #1:	DFT #2:	DFT #3:	IDFT:
SYSTEM #1:	[Yellow Input] mils	[Yellow Input] mils	[Yellow Input] mils	[White Input] mils
SYSTEM #2:	[Yellow Input] mils	[Yellow Input] mils	[Yellow Input] mils	[White Input] mils
SYSTEM #3:	[Yellow Input] mils	[Yellow Input] mils	[Yellow Input] mils	[White Input] mils
SYSTEM #4:	[Yellow Input] mils	[Yellow Input] mils	[Yellow Input] mils	[White Input] mils
SYSTEM #5:	[Yellow Input] mils	[Yellow Input] mils	[Yellow Input] mils	[White Input] mils

REPAIR INFORMATION

Method Of Repair Coating 1: [Dropdown]

Required Access for needed Repair? [Dropdown]

Access Height to Repair Anomaly: [Yellow Input] ft

Required Permit for the Repair? [Dropdown]

Habitat Required for the Repair: [Yes] [No]

Any Additional Exterior Protection Needed:

Caulking [Yes] [No]

Flashing [Yes] [No]

Top Coating [Yes] [No]

Sealing [Yes] [No]

Additional Inspector's Comments:

COPY INSPECTION

- Expanded View of the Check Sheet on the iPad in the Field.

Discard

Inspecting Asset:0001

INCOMPLETE

Finish

Inspection ID: off-LD-01-L1-0001-2013A

Asset Number: 0001

Asset Type: Beam

Unit: Lower Deck

Block Location: 01

Level: Level 1

GPS Location: 0 , 0



APPROXIMATE SURFACE AREA OF EXISTING COATING:

Total Square feet of Coating:



INSPECTION PHOTOS:



RECEIVE PHOTOS ON



EXISTING COATING CONDITION ASSESSMENTS:

COATING SYSTEM #1 Corrosion Assessment

Yes

No

Critical Area of Concern?

High Traffic Area?

Single

Multiple

Yes

No

Does the Coating have a Breakdown of >2%?

2-20%

>20%



Discard

Inspecting Asset:0001

INCOMPLETE

Finish

Inspection ID: off-LD-01-L1-0001-2013A

Asset Number: 0001

Asset Type: Beam

Unit: Lower Deck

Block Location: 01

Level: Level 1

GPS Location: 0 , 0



APPROXIMATE SURFACE AREA OF EXISTING COATING:

Total Square feet of Coating:



INSPECTION PHOTOS:



RECEIVE PHOTOS OFF



EXISTING COATING CONDITION ASSESSMENTS:

COATING SYSTEM #1 Corrosion Assessment

Yes

No

Critical Area of Concern?

High Traffic Area?

Single

Multiple

Yes

No

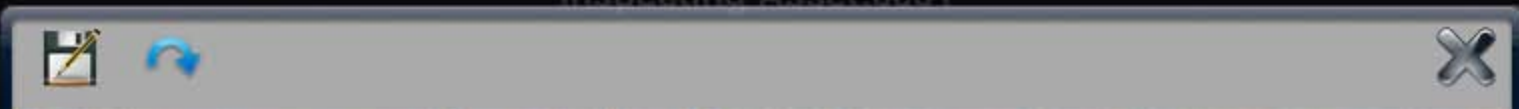
Does the Coating have a Breakdown of >2%?

2-20%

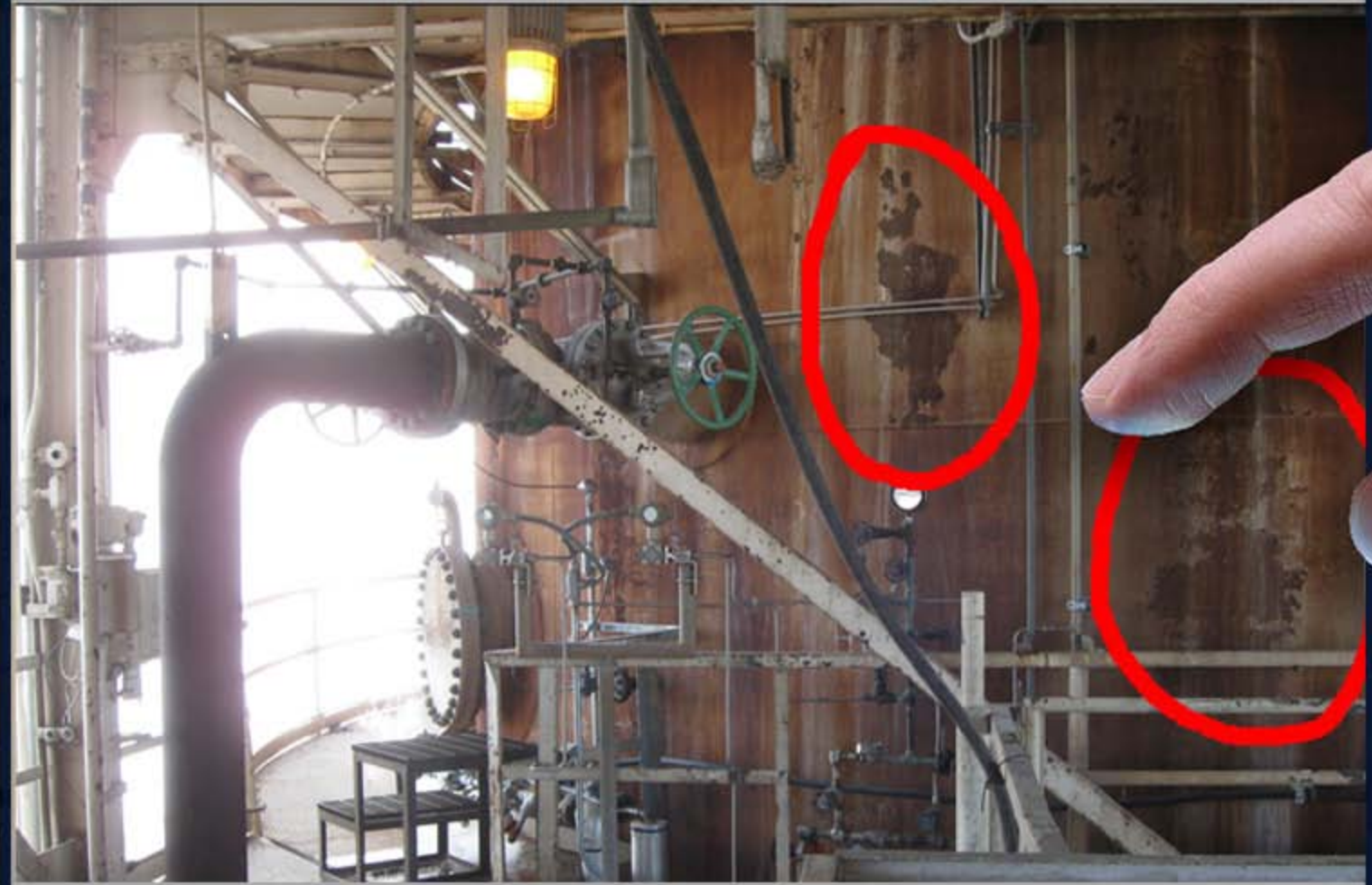
>20%

Discard

Inspecting Asset:0001



Finish



Inspect

Unit: L

GPS L

APPROX

Total S

INSPECT



EXISTING

COATING

Yes No Critical Area of Concern? High Traffic Area? Single Multiple

Yes No Does the Coating have a Breakdown of >2%? 2-20% >20%

Yes No Is there corrosion with loss of section? Mild Moderate

Yes No Is there General Surface Rust? Scatterd Localized

Yes No Is there greater then minor consequence upon failure? Serious Catastrophic

Yes No Is there Cracking, Cracking, or Flaking? Mild Moderate

Yes No Is there Erosion, Arbrasion, or Physical Damage? Mild Moderate

Yes No Is there Blistering, Adhesion, or Lamination? Mild Moderate

Yes No Is there any Cathodic Disbondment Mild Moderate

Yes No Is there any Rash Rusting,Rust Scaling, or Rust Spotting Mild Moderate

Yes No Is there any Edge Corrosion, or Corriion Under Creep? Mild Moderate

Yes No Is the Environment Open?

Yes No Is the coating absent?

OFF There are No Anomalies.

Percent of Surface Area Repair to Bring to Compliance:
100% 75% 50% 25% 10% 5% None

INSPECTED DRY FILM THICKNESS OF COATING:

	DFT #1:	DFT #2:	DFT #3:	IDFT:
SYSTEM #1:	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils
SYSTEM #2:	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils
SYSTEM #3:	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils
SYSTEM #4:	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils
SYSTEM #5:	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils	<input type="text"/> mils

REPAIR INFORMATION

Method Of Repair Coating 1:	▼	Any Additional Exterior Protection Needed:
Required Access for needed Repair?	▼	Caulking <input type="button" value="Yes"/> <input type="button" value="No"/>
Access Height to Repair Anomaly: <input type="text"/> ft		Flashing <input type="button" value="Yes"/> <input type="button" value="No"/>
Required Permit for the Repair?	▼	Top Coating <input type="button" value="Yes"/> <input type="button" value="No"/>
Habitat Required for the Repair: <input type="button" value="Yes"/> <input type="button" value="No"/>		Sealing <input type="button" value="Yes"/> <input type="button" value="No"/>
Additional Inspector's Comments:		

COPY INSPECTION

Transfer Que

Transfer All

ASSET ID	INSPECTION ID	LOCATION	PHOTOS	
0001	off-LD-01-L1-0001-2013A	Lower Deck:01:Level 1	3	
0003	off-LD-03-L1-0001-2013A	Lower Deck:01:Level 1	12	
0004	off-LD-04-L1-0001-2013A	Lower Deck:01:Level 1	9	



Class 1 Div2 Rugged iPad Case





intelliCote™

COATING INSPECTION

Online Portal Environment

Welcome to



EMAIL:

PASSWORD:

LOGIN

UNABLE TO LOGON?



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PLANT
5



PLANT
26



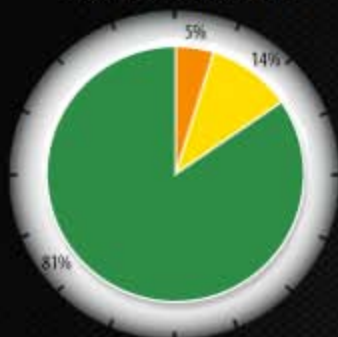
PLANT
39



PLANT
15



COATING CONDITION



SUBSTRATE CONDITION



Coatings Rating Matrix		CRITICALITY		
		Minor Consequence Upon Failure	Serious Consequence Upon Failure	Catastrophic Consequence Upon Failure
Grade		1	2	3
Coating Degradation	< 2%	A1	A2	A3
	2 - 20%	B1	B2	B3
	> 20%	C1	C2	C3



SELECT SPECIFIC OVERVIEW ▼

Substrate Rating Matrix		CRITICALITY		
		Minor Consequence Upon Failure	Serious Consequence Upon Failure	Catastrophic Consequence Upon Failure
Grade		1	2	3
Substrate Degradation	No Metal Loss	X1	X2	X3
	Mild Metal Loss	Y1	Y2	Y3
	Moderate Metal Loss	Z1	Z2	Z3



INSPECTION PROGRESS

Inspection Cycles





PLANT 39:

The Mapping Feature is a visual reference for the facility and the Inspected Items.

[VIEW ALL ITEMS](#)


MAPPING REFERENCE KEY

PLANT 39

Plant 39

Unit	Blocks	Assets		
CRUDE	1	0	Find	Go
SRU	8	63	Find	Go
FCCU	11	59	Find	Go
GOFINER	14	36	Find	Go



INSPECTIONS LIBRARY:

The Inspections Library makes available information regarding all assets inspected.



INSPECTION
LIBRARY

Priority	Inspection Date	Inspection ID	Unit	Block Loc.	Critical Area Of Concern	Coating Condition	Substrate Condition	% of Repair	Inspection Photos	Repair Info	Estimated Cost
	<input type="text"/>	<input type="text"/>	Filter	Filter	Filter	Filter	Filter	Filter			<input type="text"/>
1	26-Apr-2013	LD-B05-L1-0064-2013A	FCCU	B05	YES	C1	Z1	50%			\$14,490.00
2	29-Apr-2013	PD-B13-L1-0601-2013A	FCCU	B13	NO	B1	Y1	25%			\$5,162.50
3	27-Mar-2013	LD-B04-L1-0042-2013A	FCCU	B04	NO	C1	Y1	25%			\$300.00
4	29-Apr-2013	LD-B08-L1-0124-2013A	SRU	B08	NO	A1	Y1	10%			\$600.00
5	29-Apr-2013	LD-B07-L1-0101-2013A	CRUDE	B07	NO	A1	Y1	10%			\$450.00
6	26-Apr-2013	LD-B06-L1-0086-2013A	CRUDE	B06	NO	C1	Z1	25%			\$6,264.98
7	29-Apr-2013	LD-B05-L1-0062-2013A	GOFINER	B05	NO	A1	Y1	5%			\$300.00
8	29-Apr-2013	PD-B04-L1-0422-2013A	FCCU	B04	NO	B1	X1	25%			\$1,500.00
9	29-Apr-2013	PD-B03-L1-0403-2013A	FCCU	B03	NO	A1	X1	10%			\$300.00
10	29-Apr-2013	WTM1-B01-L1-0987-2013A	FCCU	B01	NO	A1	X1	None%			\$300.00
			FCCU	B11	NO	A1	X1				



Inspection Number:	LD-B05-L1-0064-2013A
Inspector:	Randy Orimiston

Facility:	Plant 39	Asset Number:	0064	Coating: C1	
Unit:	FCCU	Block:	B05		
Owner:		Unit Level:	N/A	Substrate: Z1	
Insp. Date:	04/18/2013	Inspector:	Randy Orimiston		

Total Square Footage:	966.00 SQ FT	Needed Repair Square Footage:	0.00 SQ FT
-----------------------	--------------	-------------------------------	------------

Inspection Item Number:	0064	Description of Item Inspected:	Beam
Name of Module where Item is Located:	LOWER_DECK	GPS Location Coordinates of the Item:	0.0
Block Diagram Location of Item:	B05	Critical Area of Concern:	

Inspected Dry Film Thickness of Coating:					
DFT1:	7	DFT2:	7	DFT3:	4
EDFT#1:	6				

Existing Coating Condition Assessments:

Critical Area of Concern?	
Does the Coating have a Breakdown of >2%?	>20%
Is there corrosion with loss of section?	Moderate
Is there greater than minor consequence upon failure?	None
Is there General Surface Rust?	Scattered
Is there Cracking, Cracking, or Flaking?	None
Is there Erosion, Abrasion, or Physical Damage?	Mild
Is there Blistering, Adhesion, or Lamination?	Mild
Is there any Cathodic Disbondment	None
Is there any Rash Rusting, Rust Scaling, or Rust Spotting	Moderate
Is there any Edge Corrosion, or Corion Under Creep?	Moderate
Is the Environment Open?	None
Is the coating absent?	None

Percentage of square footage of repair needed to bring to compliance.... **50%**

Inspector Comments:	Structural Steel
	Overall condition Grade B
	Well Bay beams for C1 thru C4 and D1 thru D4
	Mil readings on top side of beams: 5,7,4,5,4,6,4,6,5,5 Mil readings on inside web of beam: 11,7,10,12,6,9,11,8,8,8
	The coatings system on the inside webbing and bottom flange is in good condition. Areas of Concern: there are a few areas where additional stiffeners were welded to the web in a few different locations and insufficient coatings were applied and have failed allowing some scattered and localized metal loss to occur with some rust scaling present, and some minor surface pitting.
	Top side flange of beams coating system is in poor condition with 50 to 75% coating breakdown. Areas of Concern: mil readings on the top had an average of 5.33 mils and coating loss and coating failure has led to several areas.

	Generated by:	Kevin Turpin
	Representing:	
	Date:	05/06/2013

Condition	Substrate Condition	% of Repair	Inspection Photos	Repair Info	Estimated Cost
	Filter	Filter			
	Z1	50%			\$14,490.00
	Y1	25%			\$13,162.50
	Y1	25%			\$300.00
	Y1	10%			\$600.00
	Y1	10%			\$450.00
	Z1	25%			\$6,264.98
	Y1	5%			\$300.00
	X1	25%			\$1,500.00
	X1	10%			\$300.00
	X1	None%			\$300.00
	X1				



Inspection Number:	LD-B05-L1-0064-2013A
Inspector:	Randy Orimiston

Facility:	Plant 39	Asset Number:	0064	Coating:	C1
Unit:	FCCU	Block:	B05	Substrate:	Z1
Owner:		Unit Level:	N/A		
Insp. Date:	04/18/2013	Inspector:	Randy Orimiston		



Total Square Ft
Inspection Item No.
Name of Module
Block Diagram Loc

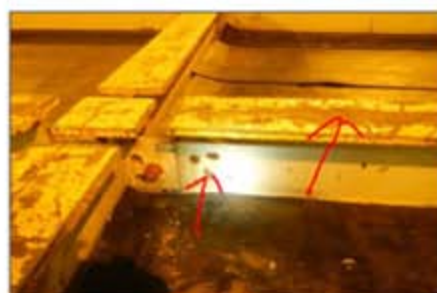
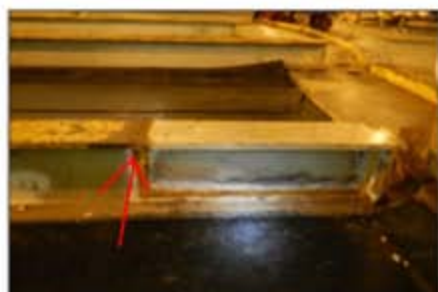
Inspected Dry F
DFT1: 7

Existing Coat

Critical Area of
Does the Coat
Is there corro
Is there grea
Is there Gener
Is there Crack
Is there Erosi
Is there Blister
Is there any D
Is there any R
Is there any E
Is the Environ
Is the coating

Percentage of

Inspector
Comments.



Rate	% of Repair	Inspection Photos	Repair Info	Estimated Cost
	Filter			
	50%		PDF	\$14,490.00
	25%		PDF	\$13,162.50
	25%		PDF	\$300.00
	10%		PDF	\$600.00
	10%		PDF	\$450.00
	25%		PDF	\$6,264.98
	5%		PDF	\$300.00
	25%		PDF	\$1,500.00
	10%		PDF	\$300.00
	None%		PDF	\$300.00

	Generated by: Kevin Turpin
	Representing:
	Date: 05/06/2013



Inspection Number:	LD-B05-L1-0064-2013A
Inspector:	Randy Orimiston

Facility:	Plant 39	Asset Number:	0064	Coating: C1	
Unit:	FCCU	Block:	B05		
Owner:		Unit Level:	N/A	Substrate: Z1	
Insp. Date:	04/18/2013	Inspector:	Randy Orimiston		

Total Square Ft
Inspection Item No
Name of Module w
Block Diagram Loc

Inspected Dry F
DFT1: 7

Existing Coat

Critical Area of
Does the Coat
Is there corro
Is there grea
Is there Gener
Is there Crack
Is there Eros
Is there Blister
Is there any D
Is there any R
Is there any E
Is the Environ
Is the coating

Percentage of

Inspector
Comments:



Inspection Photos	Repair Info	Estimated Cost
		\$14,490.00
		\$13,162.50
		\$300.00
		\$600.00
		\$450.00
		\$6,264.98
		\$300.00
		\$1,500.00
		\$300.00
		\$300.00

	Generated by: Kevin Turpin
	Representing:
	Date: 05/06/2013



Inspection Number	Inspection Number	Inspection Number
Inspector	Inspector	Inspector

Inspection Number	LD-B05-L1-0064-2013A
Inspector	Randy Orimiston

Facility	Plant 39	Asset Number	0064
Unit	FCCU	Block	B05
Owner		Unit Level	N/A
Insp. Date	04/18/2013	Inspector	Randy Orimiston

Coating	C1
Substrate	Z1



Total Square Feet
Inspection Item Name
Name of Module
Block Diagram Location



Inspected Dry Film Thickness (DFT): 7

Existing Coatings

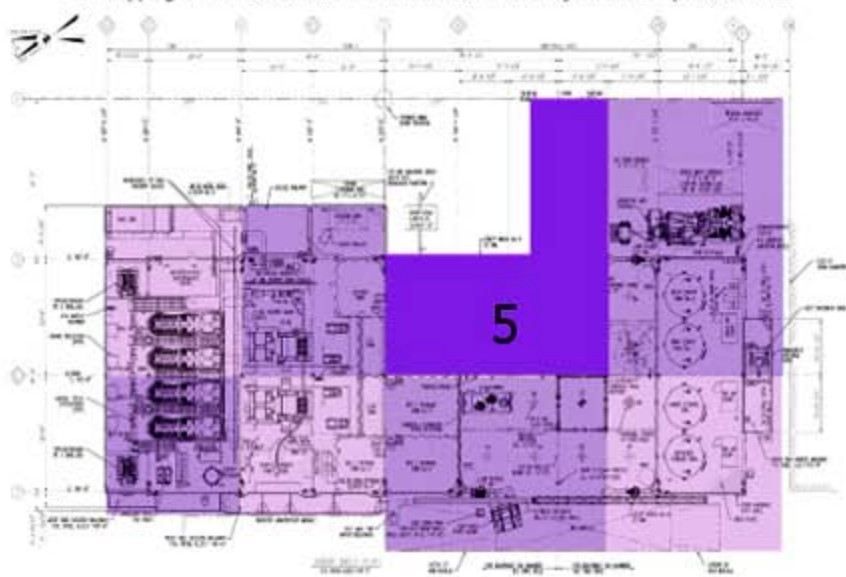
Critical Area of Does the Coat is there corrosion is there greater is there General is there Cracks is there Erosion is there Blister is there any Discoloration is there any Rust is there any Environmental is the coating



Percentage of

Inspector Comments

The Mapping Feature defines visual reference for the facility and the inspected items.



Repair Info
Estimated Cost

	\$14,490.00
	\$13,162.50
	\$300.00
	\$600.00
	\$450.00
	\$6,264.98
	\$300.00
	\$1,500.00
	\$300.00
	\$300.00



Generated by	Kevin Turpin
Representing	
Date	05/06/2013



REPAIR PLANS —BETA - INTERNAL TESTING—

To modify an existing repair plan, select "Edit" in the row of the corresponding "In Progress Repair Plans" table.

To verify repairs that have been completed, select "View" in the row of the corresponding "In Progress Repair Plans" table.



REPAIR PLAN

To modify a repair plan that has not yet been approved, select "Edit" in the "Tentative Repair Plans" table.

To delete a repair plan that has not yet been approved, select "Delete" in the "Tentative Repair Plans" table.

To approve a repair plan that has not yet been approved, select "Approve" in the "Tentative Repair Plans" table.

To view the before and after inspections of a complete repair plan, select "View" in the Completed Repair Plans" table

TENTATIVE REPAIR PLANS

[Add Repair Plan](#)

Name

No Assets found for this plant.

IN PROGRESS REPAIR PLANS

Name	Budget Amount	Start Date	Plan Approved By	Qty. of Assets	Area To Repair	Download Report	Actions
------	---------------	------------	------------------	----------------	----------------	-----------------	---------

No Assets found for this plant.

COMPLETED REPAIR PLANS

Name	Budget Amount	Actual Repair Cost	Area Repaired	Actions
------	---------------	--------------------	---------------	---------

No Assets found for this plant.





CREATE REPAIR PLANS —BETA - INTERNAL TESTING—

SAVE REPAIR PLANS

1. (Optional) Enter Plan name in Summary
2. Click Save

REPAIR PLAN



Price per SQ FT:



Plan Name: Start Year: Start Quarter: Plan Budget: Cost:

Asset Number	Inspection Number	Unit	Block	Critical Area Of Concern	Coating Severity	Substrate Severity	Area Needing Repair	Repair Cost	Report	Add To Plan
<input type="text"/>	<input type="text"/>	<input type="text" value="Filter"/>	<input type="text" value="Filter"/>	<input type="text" value="Filter"/>	<input type="text" value="Filter"/>	<input type="text" value="Filter"/>	<input type="text"/>	<input type="text"/>		
0064	LD-B05-L1-0064-2013A	FCCU	392	YES	C1	Z1	50% of 966.00 SQ FT	\$750.00	PDF	<input checked="" type="checkbox"/>
0601	PD-B13-L1-0601-2013A	FCCU	419	NO	B1	Y1	25% of 1755.00 SQ FT	\$375.00	PDF	<input checked="" type="checkbox"/>
0042	LD-B04-L1-0042-2013A	FCCU	391	NO	C1	Y1	25% of 12.00 SQ FT	\$375.00	PDF	<input checked="" type="checkbox"/>
0062	LD-B05-L1-0062-2013A	FCCU	392	NO	A1	Y1	5% of 165.00 SQ FT	\$75.00	PDF	<input type="checkbox"/>
0101	LD-B07-L1-0101-2013A	FCCU	394	NO	A1	Y1	10% of 150.00 SQ FT	\$150.00	PDF	<input type="checkbox"/>
0086	LD-B06-L1-0086-2013A	FCCU	393	NO	C1	Z1	25% of 835.33 SQ FT	\$375.00	PDF	<input checked="" type="checkbox"/>
0124	LD-B08-L1-0124-2013A	FCCU	395	NO	A1	Y1	10% of 200.00 SQ FT	\$150.00	PDF	<input checked="" type="checkbox"/>
0038	LD-B03-L1-0038-2013A	FCCU	390	NO	A1	X1	5% of 4800.00 SQ FT	\$75.00	PDF	<input type="checkbox"/>



REPAIR PLANS —BETA - INTERNAL TESTING—

To modify an existing repair plan, select "Edit" in the row of the corresponding "In Progress Repair Plans" table.

To verify repairs that have been completed, select "View" in the row of the corresponding "In Progress Repair Plans" table.



REPAIR PLAN

To modify a repair plan that has not yet been approved, select "Edit" in the "Tentative Repair Plans" table.

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To approve a repair plan that has not yet been approved, select "Approve" in the "Tentative Repair Plans" table.

To view the before and after inspections of a complete repair plan, select "View" in the "Completed Repair Plans" table

TENTATIVE REPAIR PLANS

[Add Repair Plan](#)

Name

Kevin Turpin

RepairPlan050613

Budget: \$50,000.00

Start Date: 2013 Q1

[View / Edit](#) - [Delete](#) - [Approve](#)

IN PROGRESS REPAIR PLANS

Name	Budget Amount	Start Date	Plan Approved By	Qty. of Assets	Area To Repair	Download Report	Actions
------	---------------	------------	------------------	----------------	----------------	-----------------	---------

No Assets found for this plant.

COMPLETED REPAIR PLANS

Name	Budget Amount	Actual Repair Cost	Area Repaired	Actions
------	---------------	--------------------	---------------	---------

No Assets found for this plant.



EDIT REPAIR PLANS —BETA - INTERNAL TESTING—

Drag and drop assets into any other repair plan.
Click the checkbox in the Remove column to remove an asset.
Click "Add Assets" to add assets to the current repair plan.



REPAIR PLAN

SAVE REPAIR PLANS

1. Click Save

Save Cancel

RepairPlan050613
2013 Q1
Budget: \$50,000.00
Estimate: \$0.00

Plan Name: Start Year: Start Quarter: Project Budget:

Add Assets

Asset Number	Inspection Number	Unit	Block	Critical Area Of Concern	Coating Severity	Substrate Severity	Area Needing Repair	Repair Cost	Report	Remove From Plan
7416	LD-B04-L1-0042-2013A	FCCU	B04	NO	C1	Y1	0% of 12.00 SQ FT	\$0.00		<input type="checkbox"/>
7438	LD-B05-L1-0064-2013A	FCCU	B05	YES	C1	Z1	0% of 966.00 SQ FT	\$0.00		<input type="checkbox"/>
7460	LD-B06-L1-0086-2013A	FCCU	B06	NO	C1	Z1	0% of 835.33 SQ FT	\$0.00		<input type="checkbox"/>
7498	LD-B08-L1-0124-2013A	FCCU	B08	NO	A1	Y1	0% of 200.00 SQ FT	\$0.00		<input type="checkbox"/>
7975	PD-B13-L1-0601-2013A	FCCU	B13	NO	B1	Y1	0% of 1755.00 SQ FT	\$0.00		<input type="checkbox"/>



Coatings Rating Matrix		CRITICALITY			
			Minor Consequence Upon Failure	Serious Consequence Upon Failure	Catastrophic Consequence Upon Failure
		Grade	1	2	3
Coating Degradation	< 2%	A	A1	A2	A3
	2 - 20%	B	B1	B2	B3
	> 20%	C	C1	C2	C3

Coating Conditions (A, B, C):

A: Good Coating Condition :
as New to <2% Coating Breakdown

B: Fair Coating Condition :
2-20% Coating Breakdown

C: Poor Coating Condition :
>20% Coating Breakdown

- Non Hydrocarbon
- Non Flammable/ Non Toxic Gas
- Low Priority Structural
- Low Priority Equipment

Failure Can Cause:

- Minor Consequence
- Possible Injury
- No Flammability Chance
- Low Environmental Impact
- Less than \$100K Deferred Production

- Hydrocarbon & Flammable Liquid
- Toxic Chemical
- Stairs, Handrails, Decks, Walkways
- Critical Equipment (Not SCE)

Failure Can Cause:

- Serious Consequence
- Possible Fatality (1-5) or Injury
- Low Flammability Chance (Liquid)
- Moderate Environmental Consequence
- 1-1000 bbls Release
- \$100K - \$1M Deferred Production

- Hydrocarbon & Flammable Gas
- Toxic Gas
- Critical Structural
- Safety Critical Equipment (SCE)
- Sewage

Failure Can Cause:

- Very Serious Catastrophic Consequence
- Multiple Fatalities
- Explosion/Fire
- Majority Environmental Consequence
- More than 1000 bbls Release
- More than \$1M Deferred Production
- Facility Shutdown

Substrate Rating Matrix		CRITICALITY			
			Minor Consequence Upon Failure	Serious Consequence Upon Failure	Catastrophic Consequence Upon Failure
		Grade	1	2	3
Substrate Degradation	No Metal Loss	X	X1	X2	X3
	Mild Metal Loss	Y	Y1	Y2	Y3
	Moderate Metal Loss	Z	Z1	Z2	Z3

Substrate Conditions (X, Y, Z):

X: Good Substrate Condition :
No Corrosion to Superficial Rusting with No Metal Loss

Y: Fair Substrate Condition :
Mild General Corrosion with Minor/Insignificant Metal Loss

Z: Poor Substrate Condition :
Moderate to Significant Corrosion which may Require Further Inspection

- Non Hydrocarbon
- Non Flammable/ Non Toxic Gas
- Low Priority Structural
- Low Priority Equipment

Failure Can Cause:

- Minor Consequence
- Possible Injury
- No Flammability Chance
- Low Environmental Impact
- Less than \$100K Deferred Production

- Hydrocarbon & Flammable Liquid
- Toxic Chemical
- Stairs, Handrails, Decks, Walkways
- Critical Equipment (Not SCE)

Failure Can Cause:

- Serious Consequence
- Possible Fatality (1-5) or Injury
- Low Flammability Chance (Liquid)
- Moderate Environmental Consequence
- 1-1000 bbls Release
- \$100K - \$1M Deferred Production

- Hydrocarbon & Flammable Gas
- Toxic Gas
- Critical Structural
- Safety Critical Equipment (SCE)
- Sewage

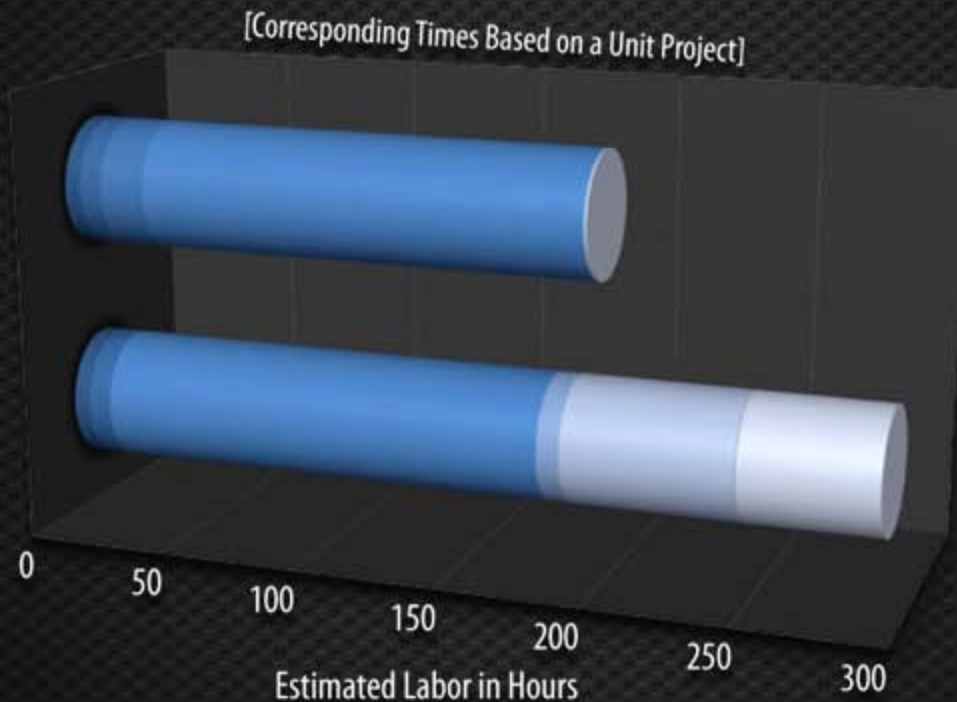
Failure Can Cause:

- Very Serious Catastrophic Consequence
- Multiple Fatalities
- Explosion/Fire
- Majority Environmental Consequence
- More than 1000 bbls Release
- More than \$1M Deferred Production
- Facility Shutdown

Inspection Time Comparisons with **intelliCote™** Mobile Inspection Solution



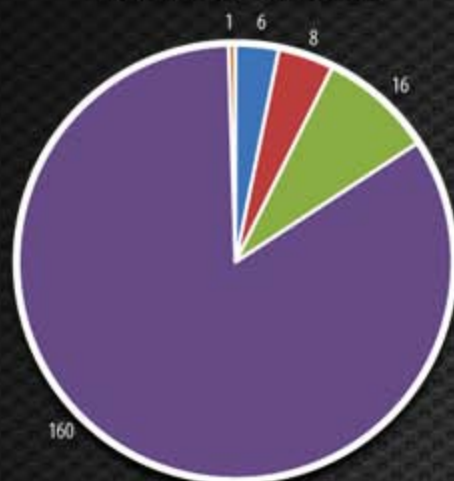
**Conventional
Inspections**



- Data Collection
- Data Review
- Document Uploads
- Inspection
- After Inspection Data Entry
- Inspection Upload
- After Inspection Photo Sort

Inspection Time Comparisons

intelliCote™ MOBILE

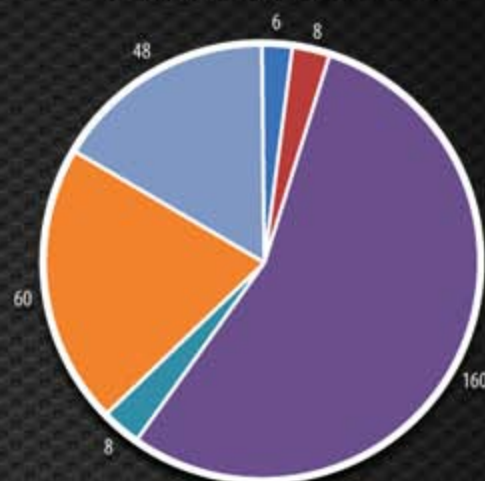


Total Hours: 191
intelliCote™ MOBILE

ACTION	# of PEOPLE	HOURS	TOTAL LABOR
Data Collection	1	6	6
Data Review	1	8	8
Document Uploads	1	16	16
Inspection	2	80	160
After Inspection Data Entry	0	0	0
Inspection Upload	2	0.5	1
After Inspection Photo Sort & Upload	0	0	0
Total Hours			191

[Corresponding Times Based on a Unit Project]

Conventional Inspections



Total Hours: 290
Conventional Inspections

ACTION	# of PEOPLE	HOURS	TOTAL LABOR
Data Collection	1	6	6
Data Review	1	8	8
Document Uploads	0	0	0
Inspection	2	80	160
After Inspection Data Entry	1	8	8
Inspection Upload	2	30	60
After Inspection Photo Sort & Upload	2	24	48
Total Hours			290

Benefits:

- 34% Reduction of Overall Inspection Time and No Data Entry After Inspection Data Entry
- Real Time Inspection Data Collection for Compliance Management
- Inspection Time Management Ease
- Easy Location in Facilities with Mapping and Navigational Tools
- Easily Record and Store Thickness Data and Visual Inspections
- Easily View Data Sheet Information and Inspection Plan for Fixed Equipment Asset Types and Relief Devices
- Patented Technology for Collecting and Managing Photos
- Create Ad Hoc Inspection Items on the Go
- Record CM's, PM's, Failure Data and Non-Conformances Easily
- **Accuracy – Consistency – Efficiency**

Questions?



intelliCoteTM
COATING INSPECTION