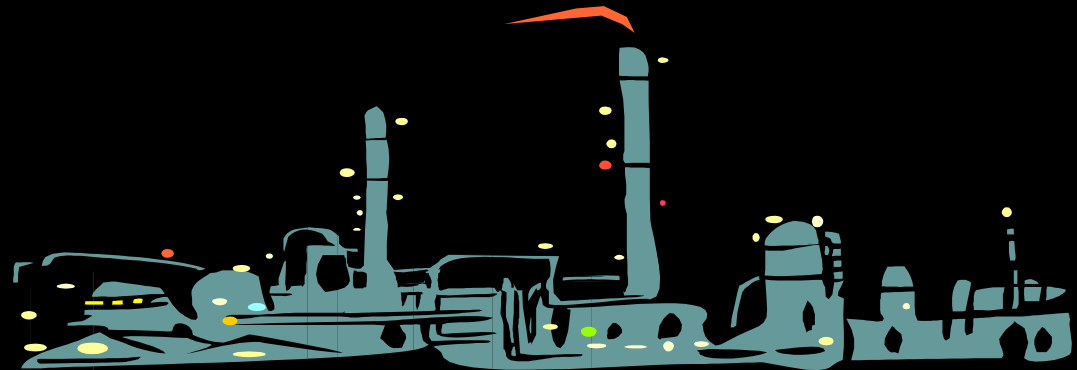


Delivering “In-Context” PI Data to Web-Based Plant Applications

Communications and Workflow
Software Designed For The
Chevron Salt Lake Refinery



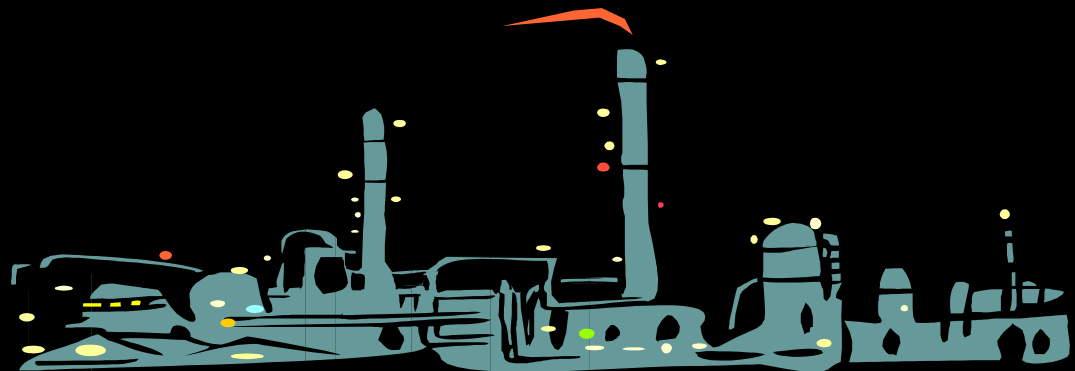
Work Process Challenges...

● Operator Shift Turnover

- Paper log book
- Limited process data
- Many paper copies
- Brief comments only
- Manual search
- Expanded distribution
- Combined Op/Supervisor

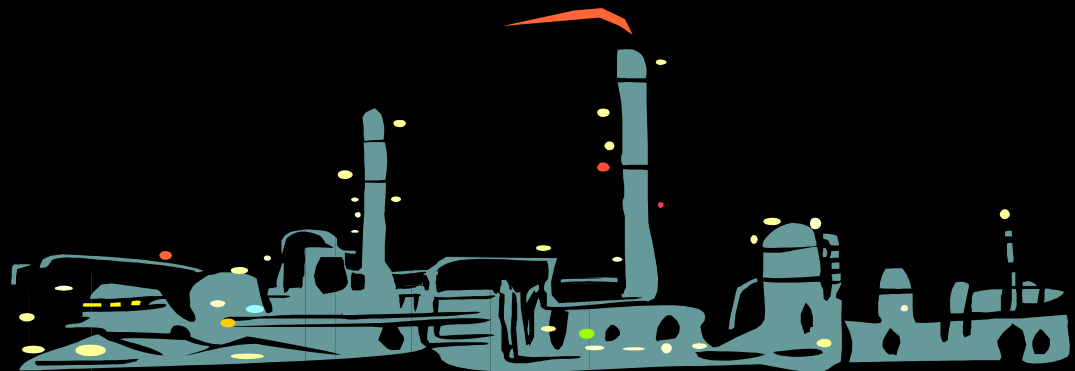
● Weekly Product Plan

- Paper-based system
- Hand updated
- Faxed instructions
- No plan vs. actual
- No operator feedback
- No plan archives
- Plan templates



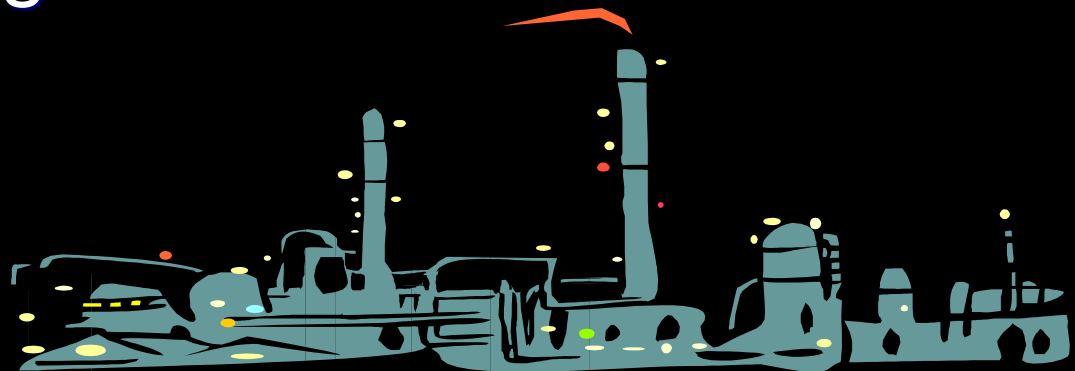
Chevron Design Criteria...

- Web-based solution
- Microsoft platform
- Seamless PI integration
- Maintainable in-house
- Scalable
- No duplicate data storage
- USER EMBRACE



Shift Turnover Design Considerations

- Intuitive web-based front end
- Need to reduce paper reports
- “In-Context” PI data
- Comprehensive search capability
- Secure, administrative section
- Real-time, management access



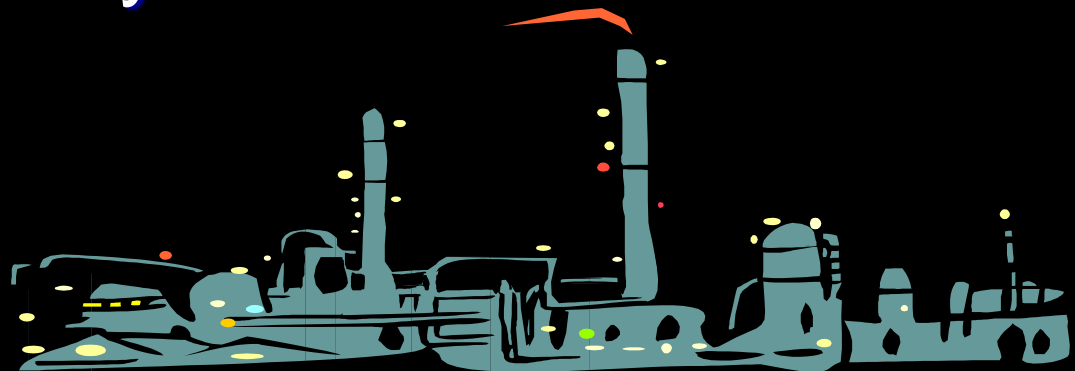
Shift Turnover Functionality

- Crew members enter shift activities
- Goal is knowledge transfer to next shift
- Entries by all levels:
 - Supervisors
 - Board Operators
 - Plant Operators
- Electronic report distribution

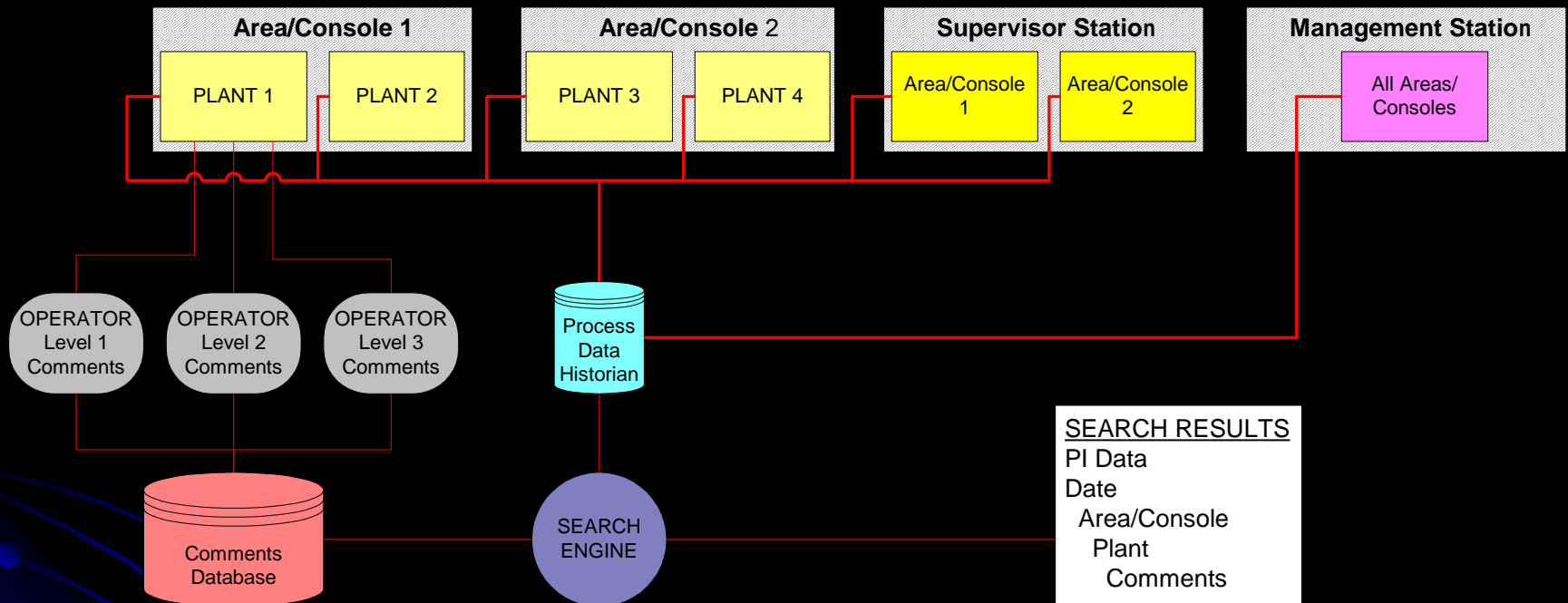


Standing Orders Module Functionality

- Straightforward entry and distribution
- Automated archiving
- Revision control
- Operator alerts
- Operator access tracking
- Login-based security



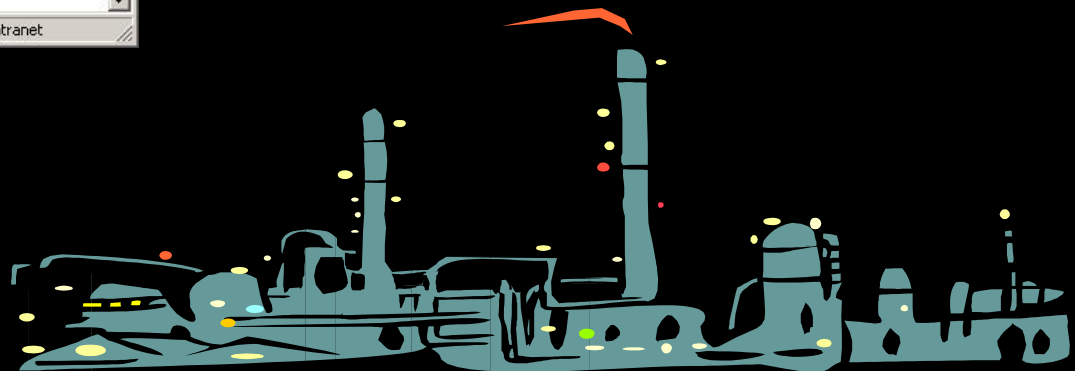
Turnover Application Overview

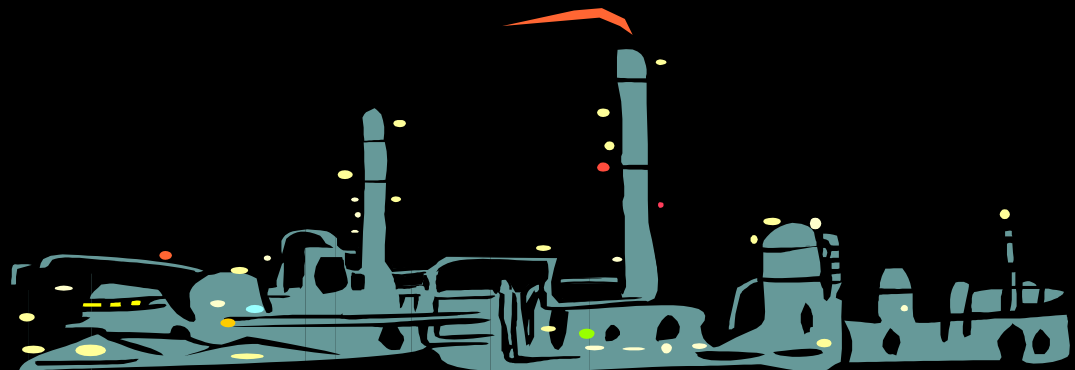


Shift Turnover Application



- Splash Page
 - Security enforced by matching logo ID with Area access
 - Supervisor access
 - Standing Order access







SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER SYSTEM

AREA 1

TURNOVER REPORT FOR: Thursday, March 07, 2002

SHIFT: Day



PROCESS DATA

Values are 12-hr rolling averages,
except * indicates current value...

UPDATE VALUES

Last Update: 09:48:12

COKER	
Total Feed Rate	77.3
Decant Feed	93.4
Cold Feed	119.7
LGD Draw Rate	122.0
F7001 Pass Rate	151.5
Recycle Ratio	114.8
Slop Feed	143.1
Outage A*	108.2
Tons A*	125.3
Outage B*	88.1
Tons B*	60.2
HDN	
Total Feed Rate	148.4
CCC Rate	179.3
Reactor Temp	102.4
Spillback	133.8
Stove Rate	87.4
Bottoms Rate	106.3
HDS	

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

No New Standing Orders

FIND

OPEN

New

CREW COKER HDN HDS AMINE SWS SRU CRUDE BOILER TANKS

SHIFT CREW

SHIFT SUPERVISOR

NON-POST UO

COKER-HDN UO

CU-BP UO

COKER OPERATOR

HDN/HDS OPERATOR

CU OPERATOR

BP OPERATOR

Select Crew



NON-POST UO COMMENTS

SAVE

VIEW TURNOVER

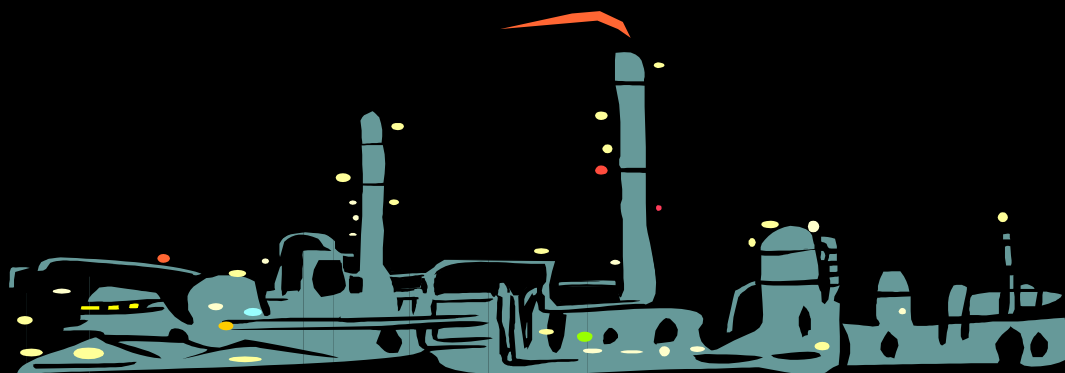
SEARCH

TURNOVER HOME

SUGGESTIONS

PLAN DEVIATION

Local intranet





SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER SYSTEM

AREA 1

TURNOVER REPORT FOR: Thursday, March 07, 2002

SHIFT: Day



CHOOSE IMAGE

PROCESS DATA

Values are 12-hr rolling averages,
except * indicates current value...

UPDATE VALUES

COKER

Total Feed Rate	77.3
Decant Feed	93.4
Cold Feed	119.7
L&D Draw Rate	122.0
F7001 Pass Rate	151.5
Recycle Ratio	114.8
Slop Feed	143.1
Outage A*	108.2
Tons A*	125.3
Outage B*	88.1
Tons B*	60.2

HDN

Total Feed Rate	148.4
CCC Rate	179.3
Reactor Temp	102.4
Spillback	133.8
Stove Rate	87.4
Bottoms Rate	106.3

HDS

Total Feed Rate	137.5
Diesel Rate	70.6

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

No New Standing Orders

FIND

OPEN

New

CREW

COKER

HDN

HDS

AMINE

SWS

SRU

CRUDE

BOILER

TANKS

COKER UO COMMENTS

COKER O COMMENTS

COKE CARS:

"SAVE" button must be pressed when change is made to the Comments Field



REFRESH

SAVE

VIEW TURNOVER

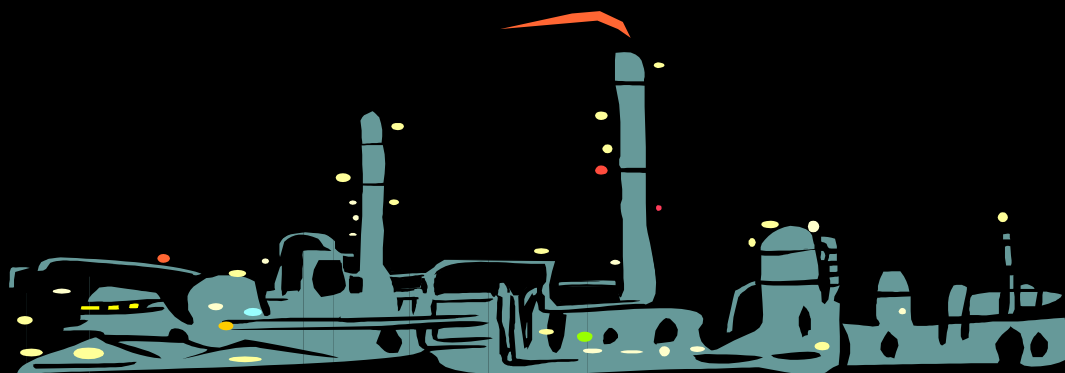
SEARCH

TURNOVER HOME

SUGGESTIONS

PLAN DEVIATION

Local intranet





SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER SYSTEM

AREA 1

TURNOVER REPORT FOR: Thursday, March 07, 2002

SHIFT: Day



CHOOSE IMAGE

PROCESS DATA

Values are 12-hr rolling averages, except * indicates current value...

UPDATE VALUES

TANKS

Coker Cold Feed

50 Tank Current*	132' 4" 7/16
50 Tank Change*	13' 6" 12/16
50 Tank Temp.	106.3
51 Tank Current*	182' 6" 4/16
51 Tank Change*	13' 6" 12/16
51 Tank Temp.	70.6
52 Tank Current*	119' 3" 7/16
52 Tank Change*	13' 6" 12/16
52 Tank Temp.	131.4

Decant Feed

86 Tank Current*	168' 8" 4/16
86 Tank Change*	13' 6" 12/16
86 Tank Temp.	138.1
90 Tank Current*	145' 9" 2/16

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

3/7/02 - Coker Maintenance

FIND

OPEN



CREW

COKE

HDN

HDS

AMINE

SWS

SRU

CRUDE

BOILER

TANKS

TANKS UO COMMENTS

TANKS O COMMENTS

"SAVE" button must be pressed when change is made to the Comments Field



REFRESH

SAVE

VIEW TURNOVER

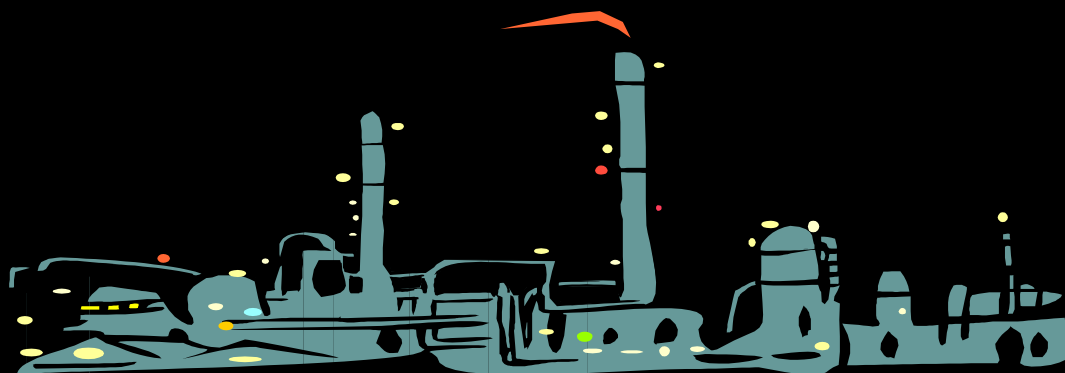
SEARCH

TURNOVER HOME

SUGGESTIONS

PLAN DEVIATION

Local intranet





SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER SYSTEM

AREA 3

TURNOVER REPORT FOR: Thursday, March 07, 2002

SHIFT: Day



CHOOSE IMAGE

PROCESS DATA

Values are 12-hr rolling averages, except * indicates current value...

UPDATE VALUES

Last Update: 14:42:11

WASTE WATER

Flow to IAF	204.0
Outfall Flow	154.9
#16 Tank Oil Level	118.8

REFORMER FEED

24 to 23 X-Rate	Point Not Found
-----------------	-----------------------

PISnap Version 2.0:0
IndustrySystems 2000

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

No New Standing Orders

FIND

New

OPEN

CREW	UO	CPL	BLEND	SAMPLES	N. FIELD	PRODUCTS	TRUCKS	LPG	RUNDOWN	WASTE
RUNDOWN TANKS DATA										
LT Crk	34.6	CU Dsl		HDN Feed		ISO				
Ref.	8.1	DIB Btms		Hvy Cycle		Normal				
Pen-hex	2.9	4 & 5th		Lt. Cycle		Dry Slop				
Motor Alk	18.25	C-6 btms		Olifin		Wet Slop				
JET/JP-8	1996.4	HSR		Avi Alky		To Fuel Gas				
LS Dsl	10	HLSR		Propane		PP				
Anything To Flare: Yes PP to... Alky DIB to... 64										
"SAVE" button must be pressed when change is made to any Data										
? REFRESH SAVE										

VIEW TURNOVER

SEARCH

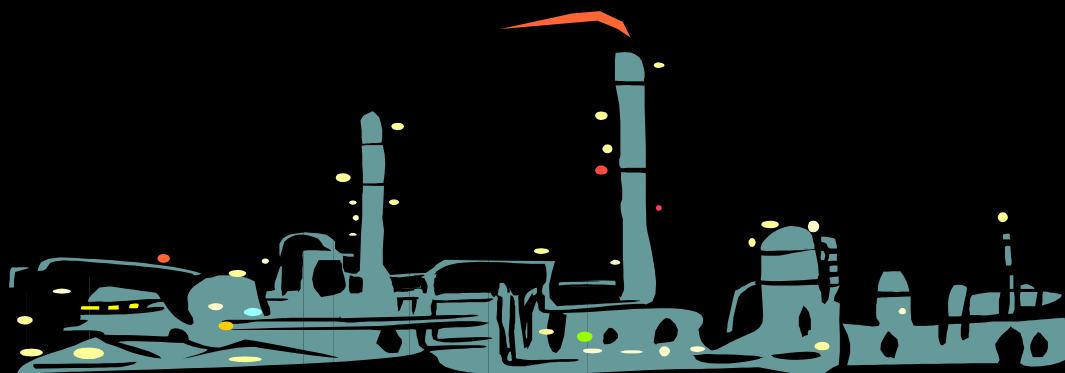
TURNOVER HOME

PREVIOUS REPORT

SUGGESTIONS

PLAN DEVIATION

Local intranet





SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER SYSTEM SUPERVISOR

REPORT FOR: Thursday, March 07, 2002

SHIFT: Day

SUPERVISOR: No SS Name Entered

CHANGE SS



PROCESS DATA

Values are 12-hr rolling averages,
except * indicates current value...

UPDATE VALUES

COKER		
Total Feed	77.3	BPD
HCO	93.5	BPD
Slop	143.2	BPD
Penhex	154.3	BPD
LGO	122.1	BPD
Splitter Btms	134.2	BPD
Pass Rates	106.3	BPD
Max TI #1	148.4	deg F
Max TI #2	179.4	deg F
Max TI #3	102.5	deg F
Max TI #4	133.8	deg F
Max P #1	87.4	PSIG
Max P #2	106.3	PSIG
Max P #3	137.5	PSIG
Max P #4	70.7	PSIG
HDN		
Total Feed	148.4	BPD
Carter Creek	179.4	BPD
CAT	123.7	deg F
Naphtha	138.2	BPD

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

No New Standing Orders

FIND

New

OPEN

ADMIN

CRUDE UNIT

COKER

FCC

AIR

TANKFIELD

COKER

Process Comments

"SAVE" button must be pressed when change is made to the Comments Field



REFRESH

SAVE

VIEW TURNOVER

SEARCH

TURNOVER HOME

SUGGESTIONS

TODAY'S REPORTS

AREA 1

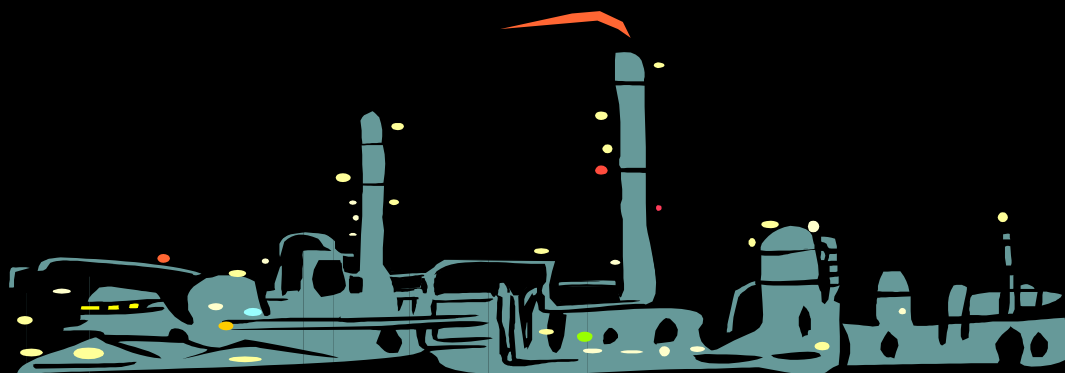
AREA 2 (AIR)

AREA 2 (FCC)

AREA 3

PLAN DEVIATION

Local intranet



ENTER SEARCH CRITERIA

Select Area...
Area 1

Select Plant...
HDN

Select Shift...
BOTH

Enter Date Parameters...

☐ On: ...

☐ Since: ...

☒ Before: 3/7/2001 ...

☐ Between: ...

And: ...

Search Comments For...

Pump_32

Sort By: Descending

Date

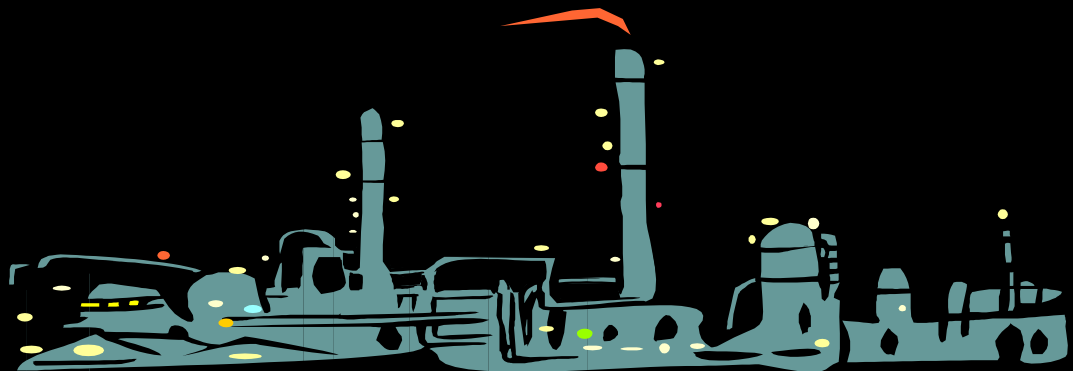
Results per page:

30

Search Scope: ☒ Operator ☐ Supervisor

SIMPLE SEARCH

SEARCH



Found 1821 records.

Prev 1 [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) Next


Date	Shift	Area	Plant	Comment	SS Rpt.
10/25/01	Day	1	Coker	Here are comments-Here are O comments...	SS
10/25/01	Day	1	TF	Tank comments-Tank comments O...	SS
10/25/01	Day	1	Boiler	Boiler comments-Boiler comments O...	SS
10/25/01	Day	1	Crude	Crude Comments-Crude O Comments...	SS
10/25/01	Day	1	SRU	SRU Comments-SRU O comments...	SS
10/25/01	Day	1	SWS	SWS Comments-SWS O Comments...	SS
10/25/01	Day	1	Amine	Amine Comments-Amine O Comments...	SS
10/25/01	Day	1	HDS	HDS Comments-HDS O Comments...	SS
10/25/01	Day	1	HDN	HDN Comments-HDN O Comments...	SS
6/5/01	Day	1	Coker	This is a coker unit operator comment and we hope that this s...	SS

AREA 1 TURNOVER REPORT FOR: Thursday, October 25, 2001 - Day

CREW: B

CREW		NON-POST UD	
Shift Supervisor	Bob Jones	This is a non-post UD comment	
Non-Post UD	Harry Grey		
Coker-HDN UD			
CU-BP UD			
Coker Operator	Bill Bummer		
HDN/HDS Operator			
CU Operator			
BP Operator			
COKER		COKER UD	COKER O
Total Feed Rate	77.2	Here are comments	Here are O comments
Decant Feed	93.4		
Cold Feed	119.7		
LGO Draw Rate	121.9		
F7001 Pass Rate	151.4		
Recycle Ratio	114.7		
Slop Feed	143.1		
Outage A*	164.8		
Tons A*	181.9		
Outage B*	144.7		
Tons B*	116.9		
		Coke Cars:	
HDN		HDN UD	HDN O
Total Feed Rate	148.3	HDN Comments	HDN O Comments
CCC Rate	179.3		
Reactor Temp	102.4		
Spillback	133.7		
Stove Rate	87.3		
Bottoms Rate	106.2		





SALT LAKE REFINERY

ELECTRONIC SHIFT TURNOUT AREA

PROCESS DATA

Values are 12-hr rolling averages, except * indicates current value...

UPDATE VALUES

Last Update: 13:19:24

COKER	
Total Feed Rate	77.3
Decant Feed	93.4
Cold Feed	119.7
LGO Draw Rate	122.0
F7001 Pass Rate	151.5
Recycle Ratio	114.8
Slop Feed	143.1
Outage A*	185.2
Tons A*	202.3
Outage B*	165.1
Tons B*	137.2
HDN	
Total Feed Rate	148.3
CCC Rate	179.3
Reactor Temp	102.4
Spillback	133.8
Stove Rate	87.3
Bottoms Rate	106.3
HDS	
Total Feed Rate	137.5

Enter Standing Orders -- Web Page Dialog

SALT LAKE REFINERY

STANDING ORDERS

DISTRIBUTION & ALERT SYSTEM

CREATE NEW STANDING ORDER

Category: Maintenance

Logon CAI: Abirkett

Entry Date: 3/7/02


Archive Date: 4/21/02

Scanned Attachments

Attach Remove

SAVE & SEND FIND PRINT

http://osipisql/standing_orders/so_entry.asp Local intranet



CHOOSE IMAGE

FIND OPEN New

CRUDE BOILER TANKS

SAVE

PLAN DEVIATION

Start Quick Launch 1:23 PM



SALT LAKE REFINERY ELECTRONIC SHIFT TURNOVER AREA 1

PROCESS DATA

Values are 12-hr rolling averages,
except * indicates current value...

UPDATE VALUES

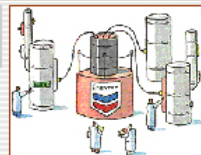
Last Update: 13:32:35

COKER	
Total Feed Rate	77.3
Decant Feed	93.4
Cold Feed	119.7
LGO Draw Rate	122.0
F7001 Pass Rate	151.5
Recycle Ratio	114.8
Slop Feed	143.1
Outage A*	189.6
Tons A*	206.7
Outage B*	169.5
Tons B*	141.6
HDN	
Total Feed Rate	148.3
CCC Rate	179.3
Reactor Temp	102.4
Spillback	133.8
Stove Rate	87.3
Bottoms Rate	106.3
HDS	
Total Feed Rate	137.5
Diesel Rate	70.6
LGO Rate	74.2

Find Standing Orders -- Web Page Dialog

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

FIND & SELECT STANDING ORDER



1. Enter Search Criteria
2. Press FIND button
3. Highlight one record in list
4. Press OPEN button
5. NEW FIND button clears screen

151:0:1 - Abirkett - Coker Main...
141:0:1 - CHEVRON - Testing Standing Orde...

ENTER SEARCH CRITERIA

☒ Search Archives

Document Number:

Date Range:

From:

To:

Title Key Word:

Pump

Area:

Area 1

Author:

NOTE: Enter one or more
value(s). Search boxes can be
left blank.

FIND

OPEN

NEW FIND

BROWSE

http://osipisq/standing_orders/so_list.asp?FindArea=1

Local intranet



CHOOSE IMAGE

FIND

New

OPEN

RUDE

BOILER

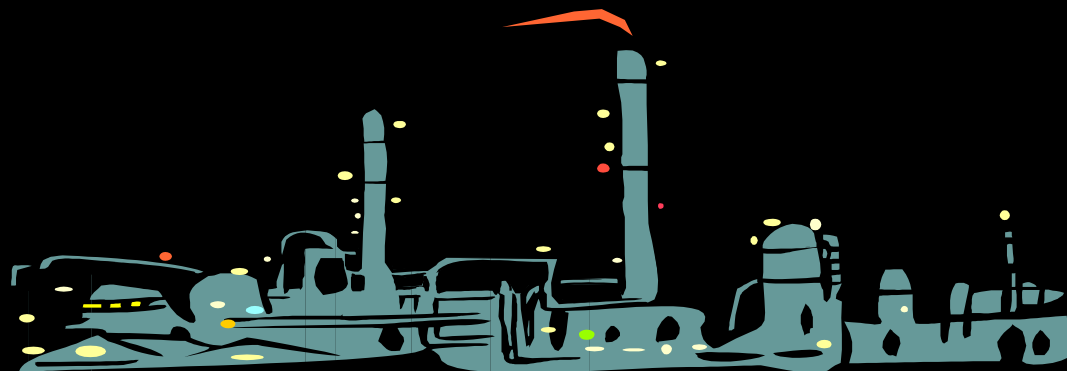
TANKS

SAVE

PLAN DEVIATION

?

Local intranet





SALT LAKE REFINERY ELECTRONIC SHIFT TURN

AREA

PROCESS DATA

Values are 12-hr rolling averages, except * indicates current value...

UPDATE VALUES

Last Update: 15:18:02

COKER	
Total Feed Rate	77.3
Decant Feed	93.4
Cold Feed	119.7
LGO Draw Rate	122.0
F7001 Pass Rate	151.5
Recycle Ratio	114.8
Slop Feed	143.1
Outage A*	204.1
Tons A*	221.2
Outage B*	184.0
Tons B*	156.1
HDN	
Total Feed Rate	148.3
CCC Rate	179.3
Reactor Temp	102.4
Spillback	133.8
Stove Rate	87.3
Bottoms Rate	106.3
HDS	

Review Standing Orders -- Web Page Dialog

SALT LAKE REFINERY STANDING ORDERS DISTRIBUTION & ALERT SYSTEM

REVIEW STANDING ORDER

Category:

Maintenance

Entry CAI:

Abirkett

Entry Date/Time:

3/7/02

Archive Date:

4/21/02

TITLE: Coker Maintenance

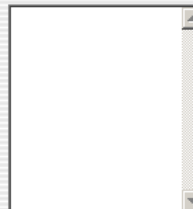
AUTHOR: Abirkett

AREA:

VERSION 0 OF 0

The Coker will be off line from April 1st to April 3rd. All coker feed should be routed to 101 Tank

Scanned Attachments



Attach

Remove

DONE

FIND

PRINT



CHOOSE IMAGE

FIND

OPEN

RUDE

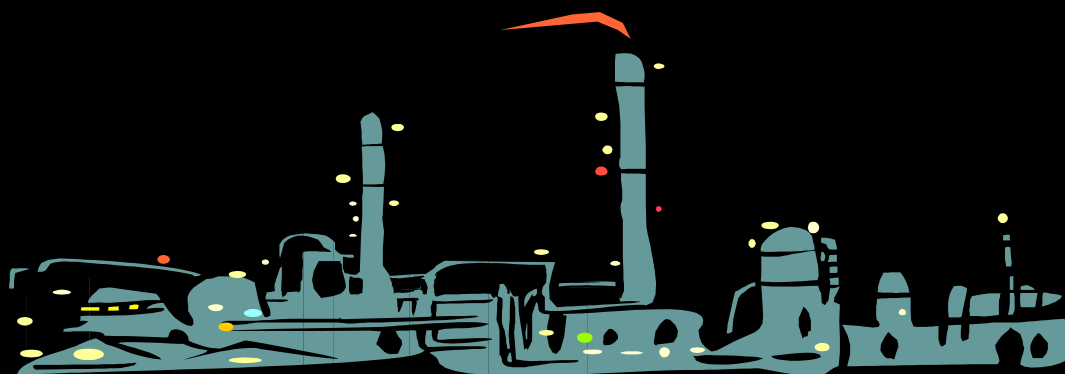
BOILER

TANKS

SAVE

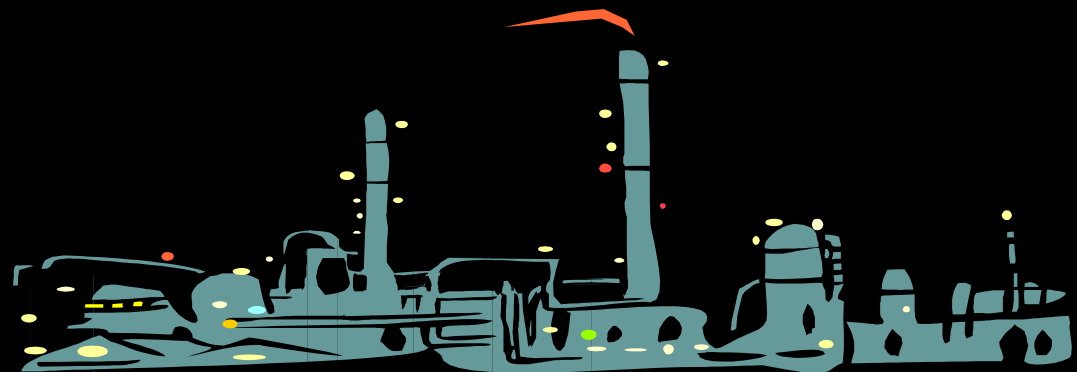
PLAN DEVIATION

Local intranet



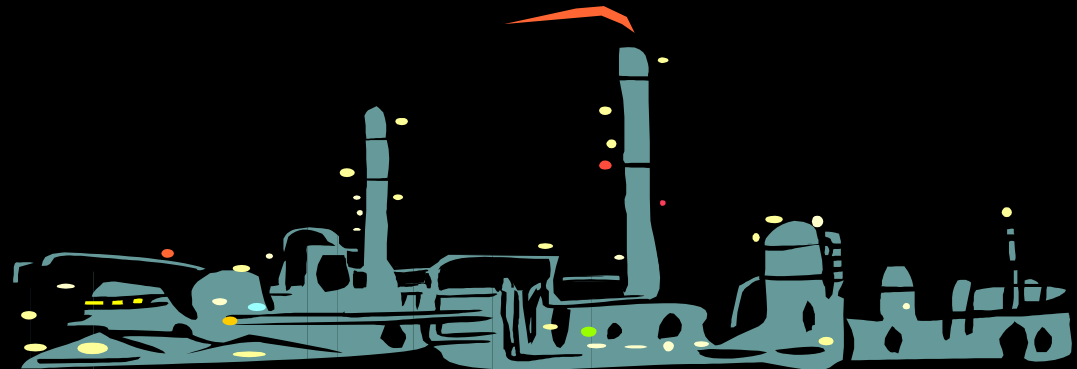
Turnover Application System Benefits...

- Big increase in comment frequency and volume
- Greater operator buy-in and “ownership”
- Significant reduction in Turnover communications errors
- Increased comment legibility
- Refinery-wide distribution

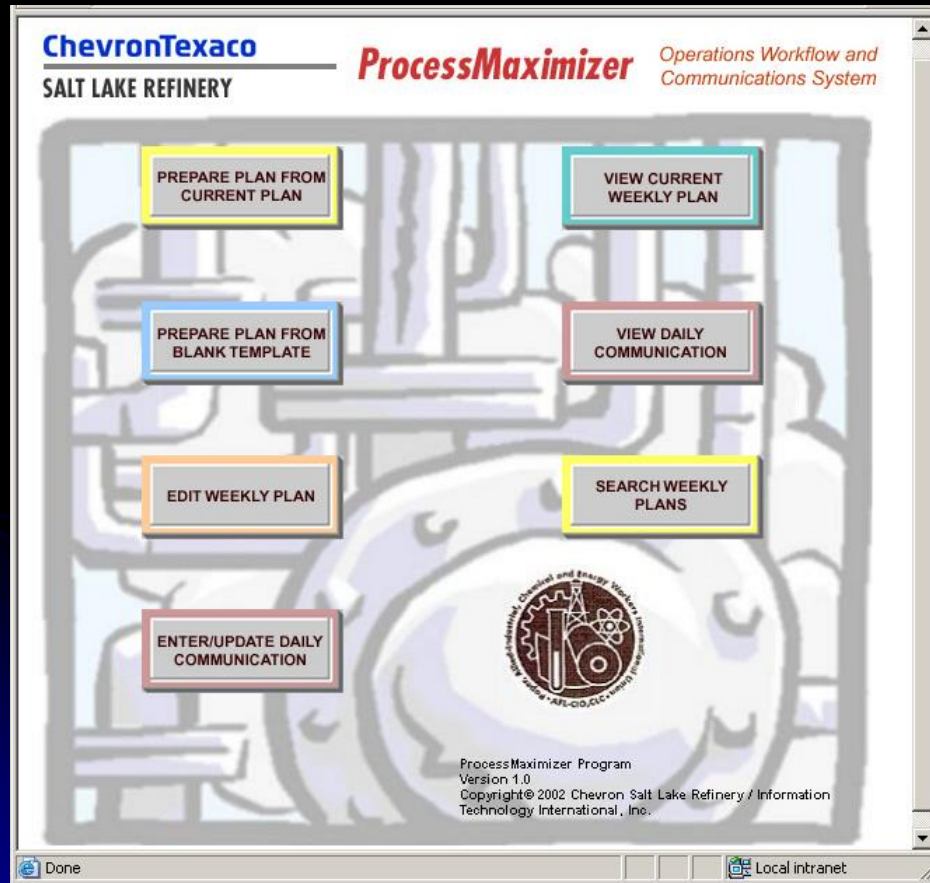


ProcessMaximizer Design Goals

- Weekly Plan Creation & Distribution
- Tankfield Daily Order Creation & Distribution
- Update Live Weekly Plan
- Allow (encourage) Operator Feedback
- Plan vs. Actual process data display
- Operator Feedback on Plan vs. Actual



ProcessMaximizer Application



ProcessMaximizer

WEEKLY PLAN

UNRELEASED PLAN
WEEKLY PLAN FOR:
3/8/02 - 3/14/02

RELEASE PLAN

SEND MESSAGE

OVERVIEW **CRUDE** COKE Sulfur HDN HDS FCC REFORMER ISOM ALKY TANK STATUS WKND INFO

ITEM DESCRIPTION	VALUES	COMMENT	DAY RANGE
Stabilizer Ovhd (LPG)	High: 200 Low: High-Op: >	this is a comment..	<input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Mon Thu <input checked="" type="checkbox"/> Sat <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Sun Wed

SAVE CLEAR

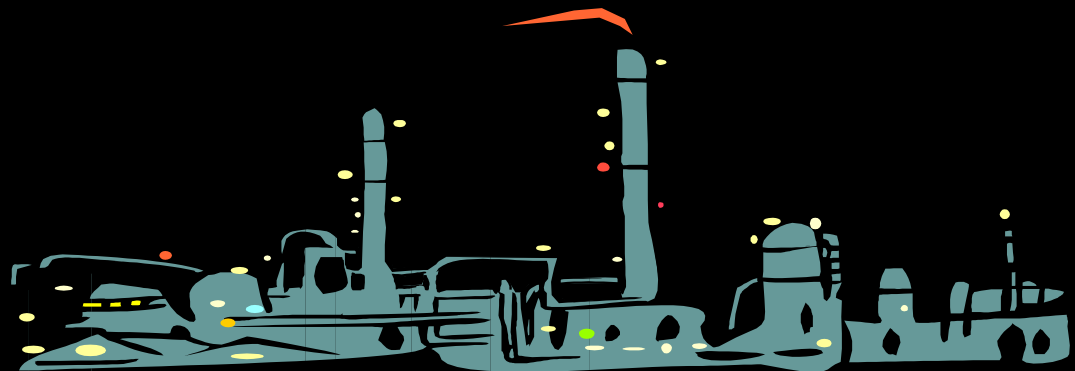
ITEM	FRI	SAT	SUN	MON	TUE	WED	THU
Total Crude Feed, BPD	H:5500 L:5200 There's total feed rate all over the highway	H:30 L:15 Making a crude entry from Saturday until the end of the week...					
Bow River Crude (61tk)	[greater than] H:1000 Optimize Bow River Crude for the next two day	[less than] H:200 Don't run the Bow river crude any higher than what the craker can take					
Syncrude Rate (60 tank)	H:5000 L:4000 These are the Syncrude instruction for the next few weeks						
Light Crude		H:3000 L:2500 Need to account for about 10 percent of our total feed stocks					
Stabilizer Ovhd (LPG)							
Splitter Tray 4, deg. °F							
Overhead Pressure, psig	H:20 L:10 This value need to be optimized. Make sure the Alky plant has sufficient feed.						

PROCESSMAXIMIZER
HOME

SEARCH
WEEKLY PLANS

OPERATOR
COMMENTS

Local intranet



ProcessMaximizer

WEEKLY PLAN

RELEASED PLAN
WEEKLY PLAN FOR:
3/8/02 - 3/14/02

RELEASE PLAN
SEND MESSAGE

OVERVIEW **CRUDE** COKER SULFU

ITEM DESCRIPTION	VALUES
Stabilizer Ovhd (LPG)	High: 200
	Low:
	High-Op: >

SAVE CLEAR

ITEM	FRI
Total Crude Feed, BPD	✓ H:5500 L:5200 There's total feed rate s the highway
Bow River Crude (61tk)	✓ [greater than] H:10 Optimize Bow River Cru
Syncrude Rate (60 tank)	✓ H:5000 L:4000 These are the Syncrude instruction for the next weeks
Light Crude	✓
Stabilizer Ovhd (LPG)	✓
Splitter Tray 4, deg. °F	✓
Overhead Pressure, psig	✓ H:20 L:10 This value need to be optimized. Make sure the Alky plant has suficient feed.

Send Plan Alert -- Web Page Dialog

Send Plan Alert

Please pay special attention to the Bow River Crude instructions. Thanks for all the great work last week!

Save Cancel

http://osipisql:81/weeklyPla Local intranet

DM ALKY TANK STATUS WKND INFO

DAY RANGE			
<input checked="" type="checkbox"/> Fri	<input checked="" type="checkbox"/> Mon	Thu	
<input checked="" type="checkbox"/> Sat	<input type="checkbox"/> Tue		
<input checked="" type="checkbox"/> Sun	Wed		

WED	THU
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓

PROCESSMAXIMIZER
HOME

SEARCH
WEEKLY PLANS

OPERATOR
COMMENTS

Local intranet



ProcessMaximizer

WEEKLY PLAN

WEEKLY PLAN FOR:
[3/8/02 - 3/14/02](#)

3/8/02 11:42:00 AM - Please pay special attention to the Bow River Crude instructions. Thanks for all the great work last week!

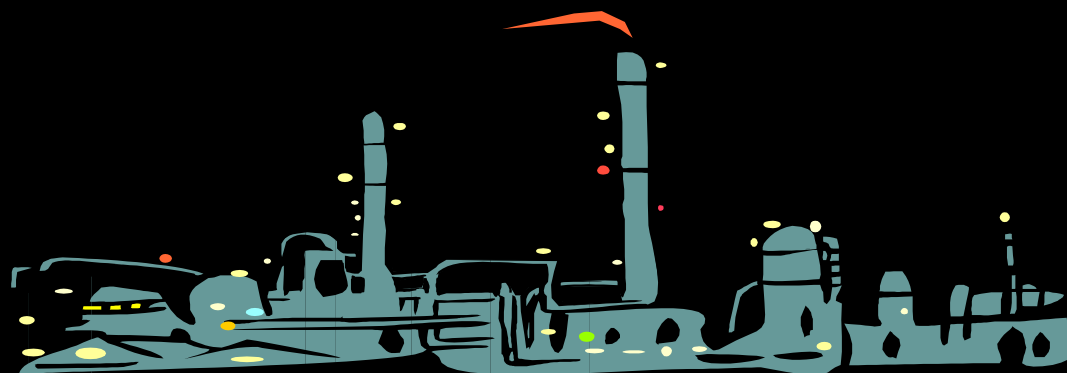
OVERVIEW **CRUDE** COKER SULFUR HDN HDS FCC REFORMER ISOM ALKY TANK STATUS WKND INFO

ITEM	FRI	SAT	SUN	MON	TUE	WED	THU
Total Crude Feed, BPD	H:5500 L:5200 There's total feed rate all over the highway		H:30 L:15 Making a crude entry from Saturday until the end of the week...				
Bow River Crude (61tk)	[greater than] H:1000 Optimize Bow River Crude for the next two day		[less than] H:200 Don't run the Bow river crude any higher than what the craker can take				
Syncrude Rate (60 tank)	H:5000 L:4000 These are the Syncrude instruction for the next few weeks						
Light Crude		H:3000 L:2500 Need to account for about 10 percent of our total feed stocks					
Stabilizer Ovhd (LPG)							
Splitter Tray 4, deg. °F							
Overhead Pressure, psig	H:20 L:10 This value need to be optimized. Make sure the Alky plant has sufficient feed.						
PenHex 90%, °F							
RVP, psi Subtract 0.13 from Grabner for RVP							
HLSR RVP, psi							

PROCESSMAXIMIZER
HOME

OPERATOR
COMMENTS

Local intranet



ProcessMaximizer

WEEKLY PLAN

WEEKLY PLAN FOR:
3/8/02 - 3/14/02

3/8/02 11:42:00 AM - Please pay special
attention to the Bow River Crude instructions.
week!

Operator Comments -- Web Page Dialog

To view a comment, **double-click** on the
item or press the **View** button.

3/8/02 - This plan worked out really good...

View-->

Yeah, the Reformer tolerances were just right.

Start typing to enter a new comment.

New

Save

Cancel

http://osipisql:81/weeklyPlan/Op_Comments/opcomments_main.asp?sessionid Local intranet

OVERVIEW **CRUDE**

ITEM

Total Crude Feed, BPD

Bow River Crude (61tk)

Syncrude Rate (60 tank)

Light Crude

Stabilizer Ovhd (LPG)

Splitter Tray 4, deg. °F

Overhead Pressure, psig

PenHex 90%, °F

RVP, psi
Subtract 0.13 from Grabner
for RVP

HLSR RVP, psi

TANK STATUS

WKND INFO

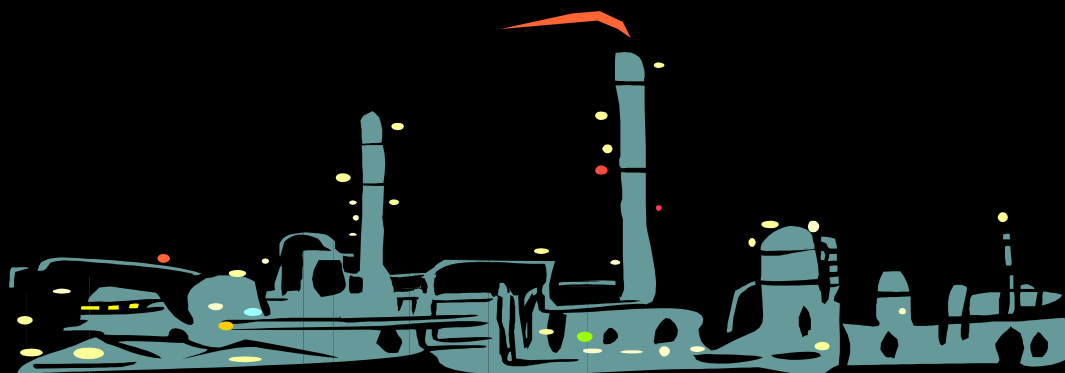
THU

PROCESSMAXIMIZER
HOME

OPERATOR
COMMENTS

Done

Local intranet



ProcessMaximizer
DAILY COMMUNICATIONS

DAILY COMMUNICATIONS
FOR:
Wednesday, February 20, 2002

The Daily Communication for 2/20/02 has been
released on 2/20/02 4:53:37 PM.

NEW INFORMATION

this is wednesdat

PRODUCTS RELEASED

wer weqwe

SAMPLES TONIGHT

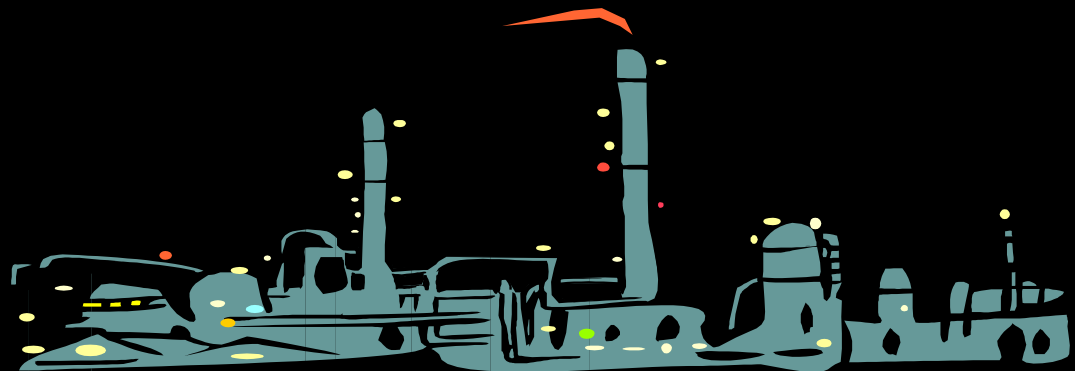
PROCESSMAXIMIZER
HOME

PRINT DAILY
COMMUNICATION

OPERATOR
COMMENTS

Done

Local intranet



ChevronTexaco

SALT LAKE REFINERY

ProcessMaximizer

Operations Workflow and
Communications System

Select Daily Communications for View/Edit -- Web P... ? X

Select Daily Communications for View/Edit

Daily Communications for 3/8/02 (NR)

Daily Communications for 3/9/02 (NR)

Daily Communications for 3/10/02 (NR)

Daily Communications for 3/11/02 (NR)

Daily Communications for 3/12/02 (NR)

Daily Communications for 3/13/02 (NR)

Daily Communications for 3/14/02 (NR)

Daily Communications for 3/15/02 (NR)

Daily Communications for 3/16/02 (NR)

Daily Communications for 3/17/02 (NR)

Daily Communications for 3/18/02 (NR)

Daily Communications for 3/19/02 (NR)

Daily Communications for 3/20/02 (NR)

Daily Communications for 3/21/02 (NR)

OK

Cancel

http://osipisql:81/daily_cor Local intranet

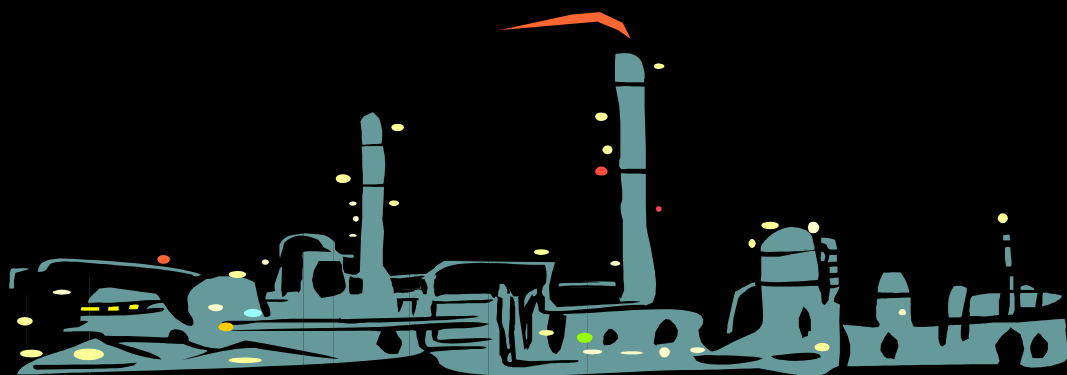
ENTER/UPDATE DAILY
COMMUNICATION



ProcessMaximizer Program
Version 1.0
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Technology International, Inc.

Done

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ProcessMaximizer WEEKLY PLAN

PLAN DEVIATION COMMENTS
WEEKLY PLAN FOR:
3/8/02 to 3/14/02
Comments print on Area Plan Deviation Reports

Date/Time: 3/8/02 12:26:47 PM
Area: 1

Save Cancel

PROCESS
Values are 12-hr rolling
except * indicates current

UPDATE VALUES

Last Update: 11:56:4

COKE

Total Feed Rate
Decant Feed
Cold Feed
LGO Draw Rate
F7001 Pass Rate
Recycle Ratio
Slop Feed
Outage A*
Tons A*
Outage B*
Tons B*
HDN
Total Feed Rate
CCC Rate
Reactor Temp
Spillback
Stove Rate
Bottoms Rate

HDN

HDS

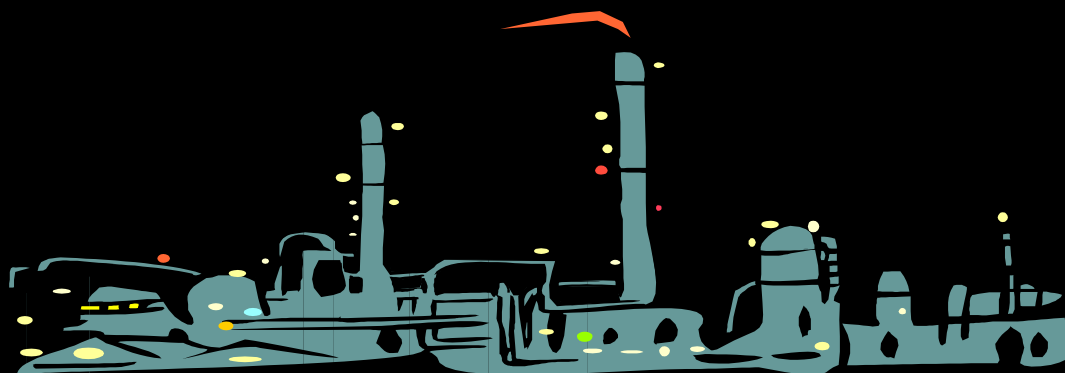
CRUDE			
Total Crude Feed, BPD	High: 150 Actual: 135.9188 Low: 125	This was easy to stay on track	
PenHex 90%, °F	High: 90 Actual: 86.7579 Low: 0	Mike left the blower valve on, so there was no way I could make this one	
RVP, psi	High: 0 Actual: 104.6279 Low: 0		
HSR 90%, °F	High: 0 Actual: 41.4870 Low: 0		
2nd S/C Description	High: 95 Actual: 97.2370 Low: 0	Second side cut is high because the vessel temp was set at 972 btu!!	
Flash °F	High: 0 Actual: 50.6470 Low: 0		
Diesel (3, 3-1/2 Sidecut)	High: 0 Actual: 135.3058 Low: 0		
Combined Cloud, °F (+/- 2F) 3rd + 3 1/2	High: 0 Actual: 87.3558 Low: 0		

http://66.114.107.44:81/weeklyPlan/plan_deviation/plandev_enter_frmst.asp?areaid=1

Internet

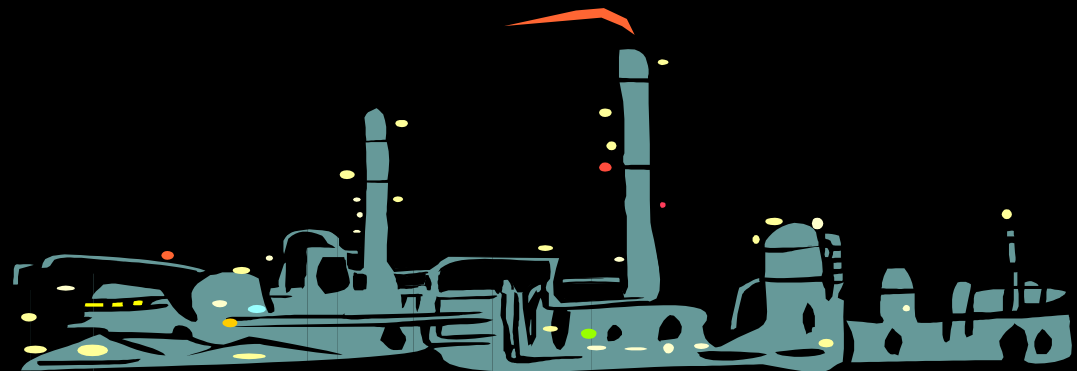
Done

Local intranet



ProcessMaximizer Application System Benefits...

- No more faxed tankfield communications
- No more manually updated plans
- Archive of historical plans
- Less paperwork/manual editing



CREDITS

- CLIENT: Chevron Salt Lake Refinery
 - Operations Team
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 - Ken Downey
 - Jim Newton
- DEVELOPER: Information Technology International, Inc. Salt Lake City

