



ONLINE SERVICE REPORTS For Water Treatment Professionals

WHAT IS IT?

T3-Web Reports™ is a collection of web-based tools designed to reduce the time and paperwork that water treatment professionals use to document service visits.

T3-WEB REPORTS outputs high quality service reports with a professional look, and helps you maintain a coherent, easy to follow call history. **T3-WEB REPORTS** has everything you need to be successful, and to solidify your relationships.

FEATURES

All of Your Customer's Information in One Place

- With a simple interface, all customer and contact information can be maintained
- Unlimited number of customers can be added

Create Custom Report Templates With Its Internal Builder

- Maintain as many service report form templates as needed for each customer/system
- List units and measurements using local nomenclature
 - Add extensive details on any measurement, including two levels of upper and lower limits and corrective actions
- Identify instrument files associated with the templates: *Advantage Controls, AquaTrac Controls, WalChem Webmaster*

Create Report Templates Using New or Existing Excel Spreadsheets

- Use all of the formatting available in Excel:
 - Font sizes, bold, underline, italics, etc.
 - Merge cells
 - Specify alignment and whole numbers/decimals for entries and calculations
- Add calculations – cycles, inventory, saturation indices, etc
- Upload prepared form as a template
- Complete the form off-line and upload it to **T3-WebReports**, or fill in the report online
- All defined calculations work

Service Reports Document Plant Visits

- A new service report starts with the template you created and several additional tabs
 - Comments – using an internal word processor, gives you all the formatting you need
 - Graphs – add up to four graphs, with trend lines to the report
- Instrument file – if present, a table of data will be available to view or graph

Status	Service Report Name	Date
Open	Field Service Report	03/25/2010
Open	Len's Excel Template	02/23/2010
Finalized	Photos of shutdown	12/15/2009
Finalized	Len's Excel Template	12/11/2009
Finalized	Summary Report	12/11/2009
Finalized	Field Service Report	12/11/2009
Finalized	Len's Excel Template	12/07/2009
Open	Tower System #2	07/13/2009
Finalized	Tower System #2	01/29/2009
Open	Field Service Report	01/29/2009

Measurements	Unit Name					Inventory
	Makeup	Tower 1	Tower 2	Tower 3		
Calcium, ppm as CaCO3	88	420	200	222		N/A
Alkalinity, ppm as CaCO3	65	125	180	240		N/A
Chloride, ppm Cl	12	65	60	58		N/A
Silica, ppm SiO2	3.2	18	12	11		N/A
Chlorine, ppm Cl-		12	1.1	3.2		N/A
pH	7.8	7.8	7.2	8.9		N/A
Conductivity, mmho	122	1855	2200	2320		N/A
Phosphate, ppm	5	7	5			N/A

Cooling System Water Analyses				Boiler System Water Analyses			
Parameter	Makeup	Tower #3	Control Range	Parameter	Feedwater	Boiler Water	Control Range
pH	6.80	7.80	7.2 - 7.7	pH	7.20	10.90	
Conductivity, mmhos	235	950	1300 - 1500	Conductivity, mmhos	235	3025	1300 - 1500
Turbidity, FAU				Phosphate, ppm		55	30-60
Total Halogen, ppm		0.60	0.2 - 0.5	Sulfite, ppm		55	20-50
Calcium, ppm as CaCO3	35	135		Silica, ppm as SiO2		6.00	
Silica, ppm as SiO2	4.0	12.0		Iron, ppm as Fe			
Phosphate, ppm as PO4	80	325		Cycles		12.9	



Service Reports Document Plant Visits (con't)

- Instrument graph – if present, up to four inputs can be graphed for the day, week or month
- If the template is from the **T3-WebReports** internal builder, out-of-limit and warning values are flagged with arrows and colors. Out-of-limit statements are dropped into comments automatically
- Your final report can optionally include the filled in template, comments, graphs, out of limit summaries and, if present, instrument summaries and graphs
- Printed output is in pdf format that makes for easy emailing
- An internal email manager allows your reports to be sent to anyone on your distribution list

Graph Data

- Generate time series graphs for up to four points being recorded all on one graph or stacked
- Add statistically derived trend lines
- Add lines for upper and lower limits

Upload Externally Generated Reports

- Keep all information related to customer reports in one place
- Upload service reports previously submitted that are in pdf format
- Add corrosion testing results, lab water analyses, inspection results, etc
- Name the file for easy reference and date it according to its creation date
- Each entry shows up in the report list in date order

Multi-Media Handbook™ Built In

- *AWT Technical Reference and Training Manual* is the basic reference
- An additional water treatment technical manual and other technical papers are included
- Built in calculations with reports for boiler, cooling and other generally useful functions such as:
 - Mass balances for boilers and cooling systems
 - Saturation indices
 - Efficiency calculations
 - Cost savings with increased cycles and return condensate

Partner With Your Customers

- Create templates that your customers can use as their log sheets with the same ability to set limits, warning levels and actions
- All service reports that you or your customers create are available to both with editing limited to the "owner" of the template

Service Report Details

Account: Sample Plant
 Location: Claymont
 Template: Tower System #2
 Report Date: 7/13/2009

Report Grid | Report Comments | Chart | Instrument Data | Instrument Chart | Distribute

Comments

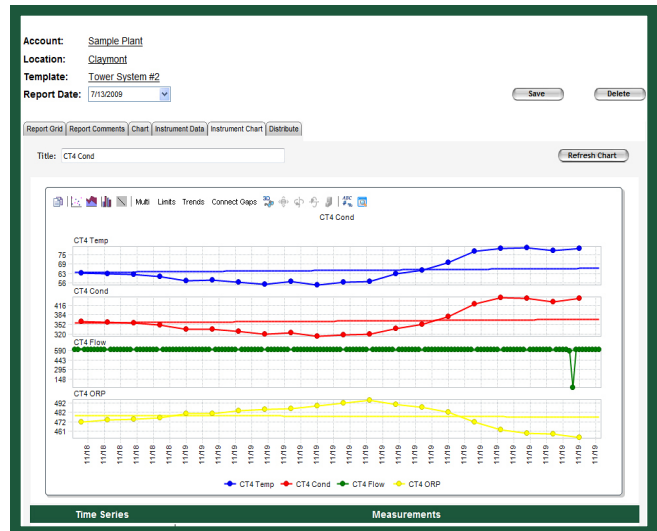
Very flexible comments section, with full word processing capabilities:

- Bold, italics, underline, or all three
- Change colors for emphasis
- Change fonts and font sizes

Corrective Actions

Tower #1 Calcium, ppm as CaCO3. Current Value=420, Upper Limit=400
 Calcium hardness is too high. Readings at this level can lead to deposits on heat transfer surfaces, lower cycles and increased chemical costs.

Tower #1 Silica, ppm SiO2. Current Value=18, Upper Limit=15
 Silica levels are high. There is an increased chance of deposition. This can only be reduced by increasing blowdown.



MMH V.08: Cooling System Calculations
 Ch. 08: U Coefficient of Surface Condensers

Prepared For: _____ Date: 4/1/2010

Exchanger Designation: My Exchanger
 Tube Material: Admiralty Metal
 Gauge: 12
 OD, Inches: 0.375
 Number of Tubes: 10000
 Number of Passes: 2
 Tube Length (Feet): 30.25

Flow (gpm): 2500
 Inlet Cooling Water °F: 85
 Outlet Cooling Water °F: 95
 Condenser Back Pressure: 2.50 Hg

Predicted U Transfer Coeff Btu/hr-R²-F: 745.51
 Log Mean Temperature Difference (LMTD) °F: 18.27
 Actual U Coefficient Btu/hr-R²-F: 22.9
 Cleanliness Factor: % 3.4

Schematic diagram showing Steam Turbine, Steam Condenser, Condensate Pump, Cooling Tower, Circulating Water Pump, Blowdown to Treatment, and MakeUp Water.