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Dear Dick,

We are finding that many are using Tango for additional effectiveness with the use of contractors. Continue reading to find out details .

## Using Tango to Manage Condition Monitoring Contractors

Industrial facilities often utilize predictive maintenance service contractors to analyze machinery condition data. Often contractors offer a significant economic technical advantage to the plant, but several management tools must be put in place to ensure contractor quality and effectiveness. The Tango™ Reliability Information Management system is in use by many plants to manage PdM service contractor activity. The following features which help facilitate the use of contract monitoring services:

Tango™ Web Hosted Architecture facilitates and enables direct input by contractors, not being blocked by plant IT security and firewalls.

### Standardized asset and component names

The equipment location names are consistent with the plant CMMS and are used by all contractors so information can be integrated and confusion is reduced.

Equipment List

- + 10016248 - CONVEYOR03, COOLER INFEEED
- + 10016249 - CONVEYOR04, COOLER DISCHARGE
- + 10016250 - CONVEYOR05, INCLINE CONVEYOR #1
- + 10016251 - CONVEYOR06, INCLINE CONVEYOR #2
- + 10016252 - CONVEYOR07, INCLINE CONVEYOR #3

*CMMS #* (points to 10016252)

*Plant Ass* (points to 10016252)

Equipment List

**Monitoring assessment task**

Tango™ allows the plant to develop monitoring and inspection tasks for all equipment assessed on any interval. These tasks specify the equipment that the contractor contractually required to assess.

Condition Assessment Tasks

Actions	User	Started On	Assessments Made	Expected Finish Date	Task Name
	John Tech	1/14/2009 5:02:32 PM	0 of 21	Jan-29-2009	800 Area-MonthlyVibe
	James Tech	1/21/2009 8:35:22 AM	0 of 15	Mar-07-2009	814-80" Mill - SemiAnnual IR
	James Tech	1/21/2009 8:35:48 AM	0 of 20	Feb-20-2009	Area 26-MCE

*Technician assigned to Perform task* (points to James Tech)

*Emails when overdue* (points to Feb-20-2009)

*This is due* (points to Area 26-MCE)

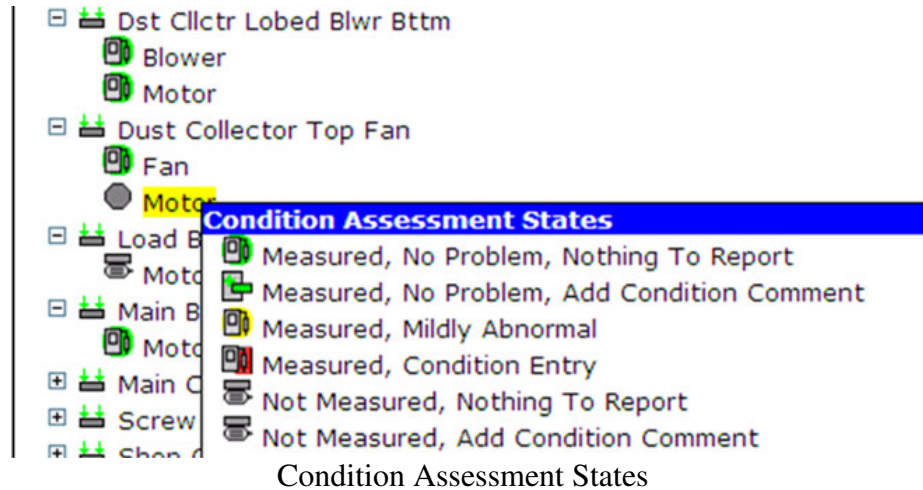
Condition Assessment Task

**Monitoring interval**

Not all equipment is monitored on the same collection interval, so equipment on the same interval may be grouped into periodic assessment tasks. This allows emails to be automatically sent for the tasks due and overdue.

**Standardization of assessment states**

For each component in an assessment task, the contractor must specify an assessment state. Some assessment states, such as measured, condition entry require follow up documentation of the problem.



### Standardization of documentation

Items such as severity, fault identification and recommendation should be standardized there is no variability between analysts and technologies.

The screenshot shows the 'Edit Condition Entry' form with the following fields and sections:

- Condition Entry Details**
  - Technology: Vibration - Route
  - Analyst: Sherman Quakenbush
  - Severity: 2 (Repair Within 30 Days)
  - Entry Date: Feb-13-2007
  - Work Request: [Empty]
  - Work Order: [Empty]
- Suspected Faults [Add]**

Fault	Fault Group
<input checked="" type="checkbox"/>	Balance Rotor Repair Shop Actions
- Recommended Action [Library]**

TIGHTEN ALL MOUNTING HARDWARE.  
 REPLACE WEAR PLATES AND BLADES, WEIGHT MATCHING EACH.  
 TEST: RUN MOTOR WITH ALL WEAR PLATES REMOVED TO ENSURE SMOOTH OPERATION. IF  
 LEVEL ARE HIGH, CONSIDER HAVING ROTOR BALANCED IN-PLACE.
- Comments**

MOTOR WAS REPLACED DURING RECENT DOWN TURN. UNBALANCE LEVELS HAVE INCREASED TO  
 OVER 2.00 IN/SEC IN THE AXIAL DIRECTION

Edit Condition Entry

### Reporting and accountability

When a piece of equipment fails in service, the plant asks, "Why didn't the contractor report this problem?" Upon investigation, it is often found that the problem has been present for several months, but the contractor's recommendations were ignored. Many times the plant does not act on any of their recommendations. This problem is caused by poor communications and accountability. Tango's web based reports and emails r

information more available to managers and maintenance planners. Tango's of problem aging and work order status help to provide accountability for pro

#### Open Condition Entries

	Severity	Asset	Component	Technologies	Days Awaiting Checkoff	Work Order Status	Wo N
	1	CLDWELL	MOTOR1	Infrared, Vibration - Route	1168	1 of 2	• 02-14
	1	2CENTAC	Air leaks	Visual Inspection	1135	0 of 1	
	2	REACTOR	1FAN	Vibration - Special Test	1022	0 of 1	
	2	CASTING	2SPM1	Oil - Screening, Vibration - Special Test	1166	1 of 2	• 03-02
	2	WASTE	FANN3	Vibration - Route	440	0 of 1	

Location: 26CP Carbon Plant » BAKE » WASTE » FANN3 ( [Locate In Tree](#) )

Entry	Severity	Technology	Fault
Jan-21-2009 By: John Reliable	2	Vibration - Route	<ul style="list-style-type: none"> <li>Looseness - stationary component</li> <li>Misalignment</li> </ul>
<i>Recommendations:</i> Perform laser align next planned outage; check base for looseness or soft foot			
<i>Comments:</i> Vibration trend for misalignment increasing over last few months, now also showing some loos mounting bolt problems. Need to check and correct any looseness issues, then perform laser alignment.			
<i>Linked Documents</i>			
<a href="#">Misalignment spectrum</a>			
<a href="#">Misalignment trend</a>			
<i>Work Order Request:</i> <a href="#">Assign</a> CMMS			
<i>Work Order Number:</i> <a href="#">Assign</a> CMMS			
<a href="#">Details Report View</a>			
<i>Status Comments</i>			
<a href="#">Add Status Comment</a>			
<i>Linked document thumbnails</i>			

#### Open Condition Entries

#### Feedback on corrective action

Contractors report that they rarely get feedback that a problem has been corrected. Tango™ requires this feedback.

#### Validation of successful repair

Once a repair has been completed, the work order is closed, but the condition contractor still should validate the success of the repair. Once this is accomplished, the condition entry is cleared from Tango's Condition Status Report.

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