Honorable Members of PUPID,

Well, it is already the second week of August and as I write this.

Back to the business at hand – the newsletter; our net division membership has decreased slightly from 315 to 306 members. We do have 11 new division members since May, 2015. Welcome to the new members!

We’ve about got the full program completed for the 2015 ISA Process Control & Safety Symposium. PUPID has one track on the first two of three days at this year’s symposium (four – 90-minute sessions - the same as last year). So, come on down to the Houston Westchase Marriott the second week of November.

If you haven’t seen it before I strongly urge you to read the “A Stochastic Continuous Digester Model to Capture Transition, Compaction and Chip Size Distribution Effects” paper by Ferhan Kayihan, PhD.

I hope it is an encouragement to you to become more involved with the Division and to enroll more members from the great international pulp & paper community.

Please do not hesitate to contact me at my email brad.carlberg@bsc-engineering.com to discuss how you can help PUPID.

Do feel free to forward the Newsletter to your friends and colleagues who may have an interest in it.
The logic diagram, Figure A26-35 (on the following page), depicts the control scheme for an acid injection pump used to control the pH in a plant water system. The control of the pump is performed exclusively by a Programmable Logic Controller (PLC). The “HOA” local hand switch is spring return to “OFF” from the “HAND” position.

1. The combination of the OR-gate “C” with the AND-gate “D” is commonly referred to as:
   a) A flip-flop circuit
   b) An exclusive-OR circuit
   c) A seal circuit
   d) An inverter

2. What effect does timer “A” have on the pump control?
   a) It starts the pump 10 minutes after the pH reaches 7.0
   b) It stops the pump after it has run for 10 minutes
   c) It automatically starts the pump every 10 minutes
   d) It delays the pump start for 10 minutes

3. What effect does timer “B” have on the pump control?
   a) It restricts the pump running to 5 minutes
   b) It provides a minimum rest time of 5 minutes
   c) It automatically starts the pump every 5 minutes
   d) None of the above

4. Disregarding the timers, which statement best describes the pump action?
   a) The pump will not run if the level of the pH is between 7.0 and 8.0
   b) The pump will continue running only if the pH is above 8.0
   c) The pump starts when the pH drops below 7.0 and continues to run until the pH rises above 8.0
   d) The pump starts when the pH rises above 8.0 and continues to run until the pH drops below 7.0
Figure A26-35

LEGEND

AND: The output is a logic "one" if all of the input signals are logic "one".

OR: The output is a logic "one" if any of the input signals are logic "one".

NOT: The output is the reverse of the input.

LESS THAN: If the input value is less than the preset value, "S", the output is a logic "one".

GREATER THAN: If the input value is greater than the preset value, "S", the output is a logic "one".

ON TIME DELAY: The output becomes a logic "one" when the input is a logic "one" continuously for time "T". The output remains a logic "one" until the input becomes a logic "zero".

OFF TIME DELAY: The output becomes a logic "one" when the input becomes a logic "one". The output becomes a logic "zero" when the input remains logic "zero" continuously for time "T".

TRANSITION ON (ONE-SHOT): The output becomes a logic "one" and remains a logic "one" for one program scan when the input changes from logic "zero" to logic "one".

TRANSITION OFF (ONE-SHOT): The output becomes a logic "one" and remains a logic "one" for one program scan when the input changes from logic "one" to logic "zero".
TUNING TIP QUESTIONS

5. In a 24-hour period, with the hand switch in the “AUTO” position, what is the maximum running time of the pump?

   a) 8 hours
   b) 12 hours
   c) 16 hours
   d) 24 hours

6. If the wire for input #01 is cut and pH measurement drops to zero, what happens?

   a) The pump stops immediately
   b) The pump stops after 5 minutes
   c) The pump starts after 10 minutes
   d) The pump starts and runs for 5 minutes

7. What happens when the pump stops running?

   a) The output of timer “B” turns “ON” for 5 minutes
   b) Timer “A” starts timing
   c) Timer “B” stops timing
   d) An alarm is generated after 5 minutes

8. Which of the following statements is true?

   a) High pH means high acidity
   b) Inputs #02 and #04 cannot be on simultaneously
   c) The pump may be jogged at any time
   d) The pump will start only if the local handswitch is in the “AUTO” position

9. Why is the pump cycled on and off?

   a) The pump heats up the acid to dangerous levels
   b) The motor is not designed for continuous service
   c) It allows time for the pH to stabilize
   d) Frequent pump cycling improves lubrication

10. What is the most likely purpose of the local handswitch?

    a) To allow testing of the PLC logic manually
    b) To prime the pump before starting
    c) To satisfy the National Pump Code
    d) To jog the pump for testing

    Find the answers to these questions on page 16
WELCOME TO THE 11 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBER SINCE MAY, 2015

Abishek Anand  
Aman Anand  
Ms Mahima PS  
Ms Divya V  

Wang Yezhong  
ROY MATHEW  
James M Sanderson  
Robert Anderson, CSE  

Michael Freeman  
Sonu Pal  
Glen Brown  

HERE’S A REMINDER TO THE 16 ISA PULP & PAPER INDUSTRY DIVISION MEMBERS WHO NEED TO RENEW THEIR MEMBERSHIP

Michael V. Lane  
Ake Hansson  
Brian P. Plamondon  
George W. Mobbs  
Gregory W. English  
Jimmy W. Key, CAP  

Sidney R. Hamby, Jr.  
M.Vamsi Krishna Reddy  
José Manuel Monteiro  
Jonathan Samuel Schall  
Cassio Divinio Silva Ribeiro  

Dr. Philip Wisnewski  
Henry Alberto Orellana Alfaro  
Julian Camilo Restrepo Cifuentes  
Jeffrey Jackson  
Wilmer Marquez Aycardi  

DON’T FORGET TO RENEW!

Events & Conferences

ISA Fall Leaders Meeting  
Saturday, 10 Oct - Tuesday, 13 Oct, 2015  
Marriott Louisville Downtown

Learn how to pronounce "Lu-ah-vul" at the ISA 2015 Fall Leaders Meeting

See the sights of Louisville at the ISA 2015 Fall Leaders Meeting

Come to the Annual Meeting!
WHO’S DOIN’ ANYTHING?

Fibria contracts Andritz for Horizonte 2 pulp project

SAO PAULO, July 31, 2015 (Press Release) - FIBRIA CELULOSE S.A. announces the contracting of important service and equipment packages for the Horizonte 2 project, which will increase the production capacity of the Três Lagoas Unit, in the state of Mato Grosso do Sul. The Company contracted Andritz Group to supply the wood yard, pulp line (cooking, washing and bleaching), drying machine, recovery boiler, evaporation, caustification and lime kiln package. To date, Fibria has also negotiated the supply of infrastructure, turbogenerators (Siemens), construction management (Time Now), automatic valves (Flowserve), centrifugal pumps (Sulzer), the entire electricity transmission and distribution system (Asea Brown Boveri - ABB), which includes the primary substation, motors, Motor Control Center (MCC) and transformer, and BOP - Balance of Plant (Pöyry). As is normal in this type of negotiation, the amounts of the contracts remain confidential.

As a result of these contracts, the Company is moving ahead with the execution of the Horizonte 2 project, which is scheduled to start up in the fourth quarter of 2017. Fibria deems it appropriate to announce this notice to the market, underlining its commitment to transparency with its shareholders and investors.

South Korea’s Moorim pursues “Quality First” policy for customers with renovation of PM 3

SEOUL, July 29, 2015 (Press Release) - Moorim Paper has equipped PM 3 at its mill in Jinju city, South Korea, with the latest hybrid former model. To enforce its "Quality First" policy for customers, with the renovation it is now possible to produce coated paper of diverse basis weight (80~200gsm) and highest quality with the first curved flexible top dewatering in Korea. Even formation and good fiber orientation with the hybrid former evenly spreads ink on the paper during printing; clearer and more consistent printing is realized. And further, due to the more even formation of paper, the agitation of halftone dots is minimized and printing problems such as curling and cockling are minimized. Moorim Paper previously reformed the dewatering system on PMs 1&2 in 2014 and improved the coating variation for both coated sides. Through continuous investment and equipment renovation, Moorim Paper has optimized its production systems to produce value-added industrial printing paper as well as the highest quality coated paper. Furthermore, Moorim Paper will expand the export proportion of its industrial printing paper.

Savcor to install XCor control unit at Cenibra’s pulp mill in Brazil

MIKKELI, Finland, July 13, 2015 (Press Release) - Cenibra installed Savcor Anodic Protection System in the digester 1 at their pulp mill in Brazil in 2003. Now after more than 10 years use, Cenibra decided to upgrade the system. Savcor’s new control unit XCor will be installed in the next shutdown in September 2015. The upgrade will increase the system’s reliability and secure digester availability by minimizing corrosion risks also in the future.

A.Celli Paper installs refurbished rewinder at SCA’s Allo facility in Spain

LUCCA, Italy, July 27, 2015 (Press Release) - Rebuild project for A.Celli Paper at SCA facilities in Allo (Spain), where the leading global hygiene and forest products company required an updated service on moving rewinder assets and major upgrade on the drive side and slitting unit. Thus, A.Celli Paper dismantled on-site the previous machinery and installed refurbished equipment with new drive and automation and safety systems, and the new, latest-generation cutting system. Started up in late 2014, the system fulfilled all the tests and the customer was fully pleased not only with the new technology supplied by A.Celli, but also with the technical and operational support that the teams have always shown during the entire rebuild process. "A.Celli Paper confirms itself a high level partner", says SCA. "They immediately identified our needs and supplied what we required. Together, we scheduled the tests and started up the refurbished rewinder. This new cutting system is truly innovative and ensures extremely high quality of the paper - something SCA particularly caters to." With this new rewinder, the SCA Spain facility has gained in performance, instantly showing an improvement in paper quality and, consequently, a better finished product.
**WHO’S DOIN’ ANYTHING? (CONTINUED)**

**International Paper restarts India mill after maintenance shut; pollution agency revokes closure order**

HYDERABAD, July 28, 2015 (The Hindu Business Line) - International Paper APPM Ltd has informed BSE that Andhra Pradesh Pollution Control Board in its Letter dated July 27 has revoked the closure order issued earlier to the manufacturing facility located at Rajahmundry, East Godavari district under Air (Prevention and Control of Pollution) and Water (Prevention and Control of Pollution) Act. The Hindu Business Line - International Paper APPM resumes production RISI is not responsible for the reliability or availability of content on external websites.

**Paper Excellence reopens Chetwynd mill, BC**

RICHMOND, BC, 23 July 2015 (Press Release) - On Wednesday July 7, Paper Excellence officially re-opened Chetwynd, a mill that has been closed since 2012.

The reopening of this Mill is predicted to bring almost 150 additional jobs to the South Peace region.

Paper Excellence, purchased the mill, which was formerly run by Tembec, last year

Deputy CEO Pedro Chang confirmed Paper Excellence commitment to the Mill and said that the Company will make every effort ensure the mill was running as efficiently as possible, and spent the time since then purchasing and installing new equipment.

A soft-opening was held about a month ago, but as of Wednesday the plant is in full operation.

The move was attended and praised by Minister Theresa Wat, MLA Mike Bernier, local Chetwynd Mayor Merlin Nichols, as well as representatives from Unifor, the union representing some of the mill workers.

"We're proud to have been a part of a process to create good resource jobs," said Joie Warnock, Unifor Western Director. "B.C.’s pulp industry has struggled because our export policy kills Canadian jobs, but hopefully this re-opening can lead a trend in the industry."

"The government has placed all of its eggs in the basket of liquefied natural gas extraction," he added.

"But in the pulp sector, this is just the tip of the iceberg if the BC government began to take resource jobs seriously."

**International Paper proposing $100 million upgrade at Springfield, OR, linerboard mill, seeks property tax waiver By Mon, Jul 20, 2015**

SPRINGFIELD, OR, July 20, 2015 (Local News) - The decades-old International Paper linerboard mill in Springfield is seeking a five-year property tax waiver worth $8.56 million for a $100 million-plus upgrade to its facility, but the company isn't promising any new jobs in return. In fact, under the proposed terms of the deal, International Paper would be allowed to trim its current workforce of 260 at the mill by 20 percent at any time in the five-year period and still get the property tax waiver, though company officials say they have no plans to cut jobs. International Paper wants to make more than $100 million in upgrades to the linerboard mill, where it makes paper products that are mainly used for making packaging. The company plans to replace two major pieces of equipment: the "head box" and the "boiler floor" where the plant's steam is produced. Register-Guard - International Paper proposing $100 million makeover at Springfield mill - and wants $8.6 million property tax waiver RISI is not responsible for the reliability or availability of content on external websites.
Who’s Doin’ Anything? (continued)

Idaho agency seeks comment on proposed air quality permit for Clearwater Paper pulp digester project at Lewiston mill

LEWISTON, ID, July 21, 2015 (Press Release) - The Idaho Department of Environmental Quality (DEQ) is seeking public comment on a proposed air quality permit to construct for Clearwater Paper Corporation, Lewiston. The proposed permit will allow the company to add a polysulfide generator, replace a digester system, modify a pulp dryer, and make changes to chip fiberline brownstock washing, oxygen delignification, and bleaching systems at its pulp and paperboard facility located at 803 Mill Road. Emissions must remain within legal limits. DEQ has reviewed the permit application and determined that construction and operation of the equipment under the proposed permit conditions will not cause or contribute to a violation of any ambient air quality standard and will not injure or unreasonably affect human or animal life or vegetation. The permit application, proposed permit, and related documents are available for review on DEQ’s website (download at right). The deadline for submitting written comments addressing air quality considerations is August 19, 2015, at 5 p.m. MDT. For technical information on the draft permit, contact Dan Pitman, DEQ Air Quality Division, at (208) 373-0500 or daniel.pitman@deq.idaho.gov. Submit written comments on the proposed permit electronically on DEQ’s website or by mail or e-mail to: Tanya Chin Air Quality Division DEQ State Office 1410 N. Hilton Boise, ID 83706 E-mail: tanya.chin@deq.idaho.gov

De La Rue launches new DLR Identify citizen centric web-based software solution

BASINGSTOKE, UK, July 22, 2015 (Press Release) - Responding to a changing dynamic and the evolving requirements of the Identity market, De La Rue announces the launch of DLR IdentifyTM, a new citizen centric web based software solution, complemented by three new physical document security features and two new thin film laminates for passport bio-data page protection. This launch reasserts De La Rue’s leadership position in the passport and identity market via the delivery of a widened offering, responding to current market trends and identified future requirements.

The Identity industry is transitioning at a pace, with a growing reliance on the digital aspects of identity management and a need for ever more sophisticated data security and multi-functional citizen centric services. De La Rue seamlessly integrates the digital system that manages a citizen’s identity with the physical document itself. Showing a strong understanding that every nation’s requirements are unique, De La Rue creates identity protection solutions that are completely tailored to the customer’s specific needs and challenges.

Unveiled at last month’s Security Document World conference and exhibition in London, De La Rue launched their latest digital offering, DLR IdentifyTM, to the market; a web-based software solution for the secure management, personalisation and storage of citizen identity data.

This new system provides the functionality needed to underpin eGovernment and eCitizen applications, as well as border and document control solutions. Built using MIDISTM technology to power its personalisation module, DLR IdentifyTM allows governments to record, validate, retrieve, update, certify and issue documents to citizens. Modular, scalable and configurable, DLR IdentifyTM is comprised of six core elements; ID Register / ID Enrol / ID Verify / ID Perso / ID Issue / ID Control, is fully compliant to ICAO and ISO requirements, and delivers integrated reporting with strong proven security credentials.

In addition to their new digital solution, De La Rue launched a series of physical product innovations to market as a direct response to a number of specifically identified security threats to the bio-data page for passports and ePassport documents:

SkyLightTM

A specialist, unique and complex watermarking feature, where small areas appear lighter and thinner than their background, positioned to register across the sheet. This process has been developed and patented by De La Rue to prevent the splitting of paper, the lifting of the laminate and its reassembly with fraudulent data. Continuous Bio-Data PageTM A new patented method of book construction where the bio-data page continues across the spine to
also form the rear end page of the book. This technique greatly hinders the removal of the bio-data page; the prime target of most fraudulent attempts of document alteration

SpectrumTM

SpectrumTM is a colour changing print feature with “movement” and “on/off” effect using proven latent image technology providing a sophisticated anti-copy feature that is resistant to colour copiers, scanners or attempted desktop reproduction. De La Rue also launched two new thin film holographic laminate patches, the first products to market as a result of their recently announced partnership with Dai Nippon Printing Co Ltd for cooperation on the development of new anti-counterfeit technologies to be used in the secure identity document solutions;

SHIELD EmbossedTM Holographic Laminate

A high-gloss thin film laminate protection solution created using e-beam technology to deliver the highest resolution and definition of quality. A striking use of complex 3-dimensional models ensures immediate recognition and provides a powerful verification feature.

SHIELD VolumeTM Holographic Laminate

Using Lippmann holographic technology, SHIELD VolumeTM displays a strong monochrome image with high movement and exception depth with 3D models that transition in both the horizontal and vertical directions and can be easily viewed under a mix of different lighting conditions. A complete communications campaign entitled “The Next Generation of Identity Management Solutions” including new animations, interactive presentations, house book samples, printed materials & features guides supports this launch and is to be rolled out over the coming weeks. Julian Payne, Product Marketing Director at De La Rue commented "This is an exciting time for the Identity market with a continued strong shift towards ever more sophisticated digital security and citizen centric services yet at the same time, the identity document remains absolutely crucial as the first line of defence for the protection and verification of an individual’s actual identity. This new offering addresses all these needs and enables De La Rue to deliver the next generation of identity management solutions”.

About De La Rue plc:

De La Rue is a leading provider of sophisticated products and services that keep nations, their economies and their populations secure. At the forefront of identity management and security, De La Rue is a trusted partner of governments, central banks and commercial organisations around the globe. De La Rue is a leading commercial banknote printer, security paper maker and provider of security products and software solutions and, as a trusted partner of governments, central banks and commercial organisations around the world, is at the forefront of the battle against the counterfeiter. As the world's largest commercial banknote printer, De La Rue provides customers with a fully integrated range of sophisticated products and services which are available either individually or as a whole. This includes a leading design capability, production of innovative security components, manufacture of security paper and polymer substrates and sophisticated printing of banknotes, all contributing to trust in the integrity of currencies. De La Rue is the world's largest commercial passport manufacturer in an environment of increasing global concern over security at national boundaries and border control. De La Rue also produces a wide range of other security products, including tax stamps for governments who are seeking to combat illicit trade and collect excise duties. Other products include authentication labels, assuring purchasers of product validity, and government identity documents. In addition the Group manufactures high speed cash sorting and banknote inspection equipment. De La Rue also provides a range of specialist services and software solutions including government identity schemes, product authentication systems and cash management processing solutions.

Stora Enso and Arauco’s Montes del Plata pulp mill hits 3,700 tonnes/day

The Montes del Plata pulp mill in Uruguay has been operative for a year, and now produces around 3700 tonnes of pulp daily.
## 2015 ISA PUPID Fiscal Calendar

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### Conferences
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

### Holidays
- 4th of July
- Thanksgiving

### Training
- ISA PC&S
- ISA PC&S

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**Notes:**
- Enlarged view of the calendar can be found on the next page.
- This calendar is for planning purposes only.
- Actual dates may vary.

---

**Legend:**
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM
- ISA PC&S

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**Winter Break:**
- 27 December - 1 January
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

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**Summer Break:**
- 27 June - 22 July
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

---

**Spring Break:**
- 21 March - 27 March
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

---

**Fall Break:**
- 16 September - 22 September
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

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**Breaks:**
- ISA PUPID
- ISA SUPE
- ISA SYMPOSIUM

---

**Key Dates:**
- ISA SUPE
- ISA SYMPOSIUM
- ISA PC&S
A STOCHASTIC CONTINUOUS DIGESTER MODEL TO CAPTURE TRANSITION, COMPACTION AND CHIP SIZE DISTRIBUTION EFFECTS

BY: FERHAN KAYIHAN, PhD
IETek – INTEGRATED ENGINEERING TECHNOLOGIES
5533 BEVERLY AVE NE
TACOMA, WA 98422-1402
TEL 253-925 2179
fkayihan@ietek.net
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- INTECH Process Automation
- SPX


Houston Marriott Westchase
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<th>Tuesday Nov 10</th>
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<tr>
<td>12:30 - 1:00 pm</td>
<td>Lunch</td>
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<td>1:30 – 2:00 pm</td>
<td>(15) &quot;Optimizing your Process through Lignin Management&quot; Brad Carlberg</td>
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<tr>
<td>2:00 – 2:30 pm</td>
<td>&quot;Big Data Improves Plant Safety&quot;</td>
<td>&quot;Industrial Advances in Wireless Control&quot; Terry Blevins Emerson Process Management</td>
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<td>Mark Nixon Emerson Process Management</td>
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<td>2:30 – 3:00 pm</td>
<td>&quot;Wireless MPC Application for DWC Control&quot; Willy Wojsznis Emerson Process Management</td>
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<td>3:00 – 3:30 pm</td>
<td>Break • Exhibits-</td>
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<td>3:30 – 4:00 pm</td>
<td>Advanced Regulatory Control</td>
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<td>Harold Wade</td>
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<tr>
<td>4:00 – 4:30 pm</td>
<td>&quot;Virtualization – A powerful tool for Process Control&quot; John McIlwain Honeywell - Performance Materials &amp; Technologies</td>
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<tr>
<td>4:30 – 5:00 pm</td>
<td>Break • Exhibits-</td>
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<td>5:00 – 5:30 pm</td>
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<td>5:30 – 6:00 pm</td>
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LETTERS TO THE EDITOR

Send your comments on this newsletter to me at brad.carlberg@bsc-engineering.com or post a message to the ISA PUPID Technical Discussion Forum List Serve & “get something started”!

- You can reach the ISA PUPID Technical Discussion Forum List Serve by clicking this link [PUPID email LISTSERV](#) or by going to the PUPID microsite and clicking on [Email List](#)
  - ”
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http://www.isa.org/~pupid/

ISA PULP & PAPER TECHNICAL DISCUSSION FORUM
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http://www.isa.org/Template.cfm?Section=Conferences_and_Exhibitions&template=taggedpage/conferencesbydate.cfm&icid=61

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ISA PUPID CALENDAR

Get a quick overview of ISA PUPID events by going to the Calendar at: https://www.isa.org/division/pupid/events/
WORLD CORNERS

CANADA CORNER

Nothing from anyone there this time!

CENTRAL & SOUTH AMERICAN CORNER

Nothing from anyone there this time!

FAR EAST CORNER

Nothing from anyone there this time!

FROM THE LAND OF THE MIDNIGHT SUN

Nothing from anyone there this time!

EUROPEAN CORNER

Nothing from anyone there this time!

ANSWERS TO THE TUNING TIP

1. C - A seal circuit
2. B - It stops the pump after it has run for 10 minutes
3. B - It provides a minimum rest time of 5 minutes
4. D - The pump starts when the pH rises above 8.0 and continues to run until the pH drops below 7.0
5. C - 16 hours
6. A - The pump stops immediately
7. A - The output of timer “B” turns “ON” for 5 minutes
8. C - The pump may be jogged at any time
9. C - It allows time for the pH to stabilize
10. D - To jog the pump for testing
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Research Triangle Park, NC 27709

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