Director’s Message

By Richard J. Van Fleet
Cave Creek, AZ USA

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On Page 2, Read the “Tuning Tip” sample CSE PE exam question

On Pages 4 – 10, Find out what's happening around the world of pulp & paper in the “Who’s Doin’ Anything” section

On Page 11 See the 2017 ISA PUPID Calendar

On Page 13, see the presentations

On Page 16, get the answers to the Tuning Tip

Please do not hesitate to contact me at Richard J. Van Fleet or to discuss how you can help PUPID.

I hope to encourage you to become more involved with the Division and to enroll more members.

Do feel free to forward the Newsletter to your friends and colleagues who may have an interest in it.
TUNING TIP CSE PE REVIEW QUESTION: HAZARDOUS AREA INSTRUMENT WIRING PROBLEM


- The thermocouple is type J, ungrounded.
- The maximum voltage produced by the thermocouple is less than 0.05 V.
- The thermocouple is considered as a “simple device”; i.e.; it will not create or store enough energy to ignite any mixture of hazardous gases.
- The hazardous area is classified as Class I, Division 1, Group A (acetylene).

Answer the following questions about the safety of the circuit in Figure 1:

1. Is the thermocouple which is in a Class I, Division 1, Group A hazardous area inherently safe and why or why not?
   A. Yes, because it is a “simple device”.
   B. Yes, because the circuit is unpowered.
   C. No, because there is no ground connection.
   D. No, because an electrical fault in the temperature recorder could cause excess energy to reach the hazardous area.

2. Assume the thermocouple does not meet safety requirements for the area classification. Select the best one of the following techniques to make it meet applicable wiring safety requirements.
   A. Ground the thermocouple at the tip.
   B. Install a galvanic isolation device(s) in the circuit; e.g.; transformer, relays, opto-couplers.
   C. Install an intrinsic safety barrier in the circuit.

3. Based upon your answer to question 2, select the additional apparatus needed and sketch a diagram of the resulting circuit, including any grounding.
   A. Use a grounded tip thermocouple and ground the shield of the thermocouple extension wire at the control room end.
   B. Install an isolation transformer in the circuit in the field junction box and leave the circuit ungrounded.
   C. Install a double AC intrinsic safety barrier on the non-hazardous side of the circuit and ground the barrier and the recorder supply common to a grounding electrode with not more than 1 ohm path resistance.

Find the answers to these questions on page 16
WELCOME TO THE 18 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBERS

Ramesshkumar Gopalsamy  
Salunke Abhilasha  
Vimala A  
Guruprasath P  
Ken Hardt  
Paul Geddes  
Eva Anttila  
Mitch A Alger  
Derrick M Demmans  
Tim Ebarb  
Jessica Heluany  
Gilles April, ISA84 SFS  
Harshith Mohan  
Cristien Balmer  
Mauricio A. Vega  
Adam Hassan  
M. Rehan-Ul-Haq  
Luther Meyer

HERE’S A REMINDER TO THE 36 ISA PULP & PAPER INDUSTRY DIVISION MEMBERS WHO NEED TO RENEW THEIR MEMBERSHIP

Mark George  
Michael L. Gore  
Romero Prates Dos Santos  
John Tenkula  
Matthew S. Toth  
Daniel D. Van Asten  
David G. Belliveau, ISA84 SFS  
Scotty D Blaylock, CCST  
James Clair Boyle Sr, PE  
Timothy Coleman  
Robert Cox  
Gerald H. Crowther  
Micheal C. Dance  
Kim B. Dixon  
Wayne G. Fleming  
Deepika G  
Jean-Guy Lagacé  
Rick Meeker, Jr., PE  
Guy A. Nuechterlein  
Samir R. Patil  
Michael E. Rothaupt  
Daljit Singh  
Fabricio Souza Torres  
Stephen Peter Tapp  
Martin J. Troy  
Nathan Van Fleet  
Amrutheshwara Bahradwaj A M  
Taynara Leal Da Silva  
Josep Fontgivell Mas  
John Gill  
Gary Johnson  
Shwetha K L  
Lyle Kritzberger  
Greg Rude  
Vikas Vasnat Soladi  
Shwetha T R

DON’T FORGET TO RENEW!
WHO’S DOIN’ ANYTHING?

Finch Paper considers $5 million waste reuse project at New York mill
November 16, 2016 - 18:55

GLENS FALLS, NY, Nov. 16, 2016 (PostStar) - Finch Paper in December will conduct tests and market analysis of two new potential reuses of waste from the pulp-making process at the company’s Glens Falls mill.

"We don't call it sludge internally. We call it 'paper residuals,'" said Derek Basile, the company’s vice president and chief financial officer.

The waste is a combination of short paper fibers and ash.

One potential is to reuse sludge as a component in nitrogen-rich fertilizer and soil enhancers.

Valmet to supply headbox upgrade to Green Forest Paper Industrial's Qingyuan mill
November 02, 2016 - 01:06

ESPOO, Finland, Nov. 2, 2016 (Press Release) - Valmet will supply a headbox upgrade and two headbox recondition service packages to Green Forest (QingXin) Paper Industrial Limited paper mill in Qingxin County, Qingyuan, China. The delivery is scheduled to take place in September 2017, and the start-up to be in October and November 2017.

The order was included in Valmet’s third quarter 2016 orders received. The value of an upgrade of this scope is usually valued around EUR 1 million.

"Valmet has proven technology, products and services bringing us reliability and performance. This upgrade turns our slice controlled headbox into a dilution-controlled headbox and we expect this to improve our board quality," says Mr. Wu Guixing, Production Director, Green Forest paper mill

"This RetroDilution headbox upgrade will bring better controllability of the headbox and improved end product quality with improved basis weight profile and fiber orientation to the customer. We are happy to bring this new technology to China and thank Green Forest for the excellent cooperation and mutual trust," says Kevin Jiang, Director, South Sales, China.

Technical information of the delivery

Valmet's delivery includes RetroDilution headbox upgrade to Green Forest (QingXin) Paper Industrial Limited’s board machine 2 and headbox recondition service packages to paper machine 1 and board machine 2. This RetroDilution headbox upgrade delivery is first of its kind in mainland China.

The RetroDilution for headbox is a dilution control retrofit that provides a cost-effective way of modernizing an existing slice lip controlled headbox into a dilution controlled one.

About the customer Green Forest Paper Industrial Limited

Green Forest Paper Industrial Limited is part of Hop Fung Group Holdings Limited. Hop Fung Group is principally engaged in the manufacture and sale of quality corrugated paper ware products to its over 550 customers in the manufacturing sectors in Hong Kong and the Pearl River Delta area. The Group is listed on the Main Board of The Stock Exchange of Hong Kong.
**Who’s Doin’ Anything? (continued)**

Valmet is the leading global developer and supplier of technologies, automation and services for the pulp, paper and energy industries. Valmet’s vision is to become the global champion in serving its customers.

Valmet’s services cover everything from maintenance outsourcing to mill and plant improvements and spare parts. The strong technology offering includes pulp mills, tissue, board and paper production lines, as well as power plants for bio-energy production. Valmet’s advanced automation solutions range from single measurements to mill wide turnkey automation projects.

Valmet’s net sales in 2014 were approximately EUR 2.5 billion. Our 12,000 professionals around the world work close to our customers and are committed to moving our customers’ performance forward - every day. Valmet’s head office is in Espoo, Finland and its shares are listed on the NASDAQ OMX Helsinki Ltd.

**Sofidel launches new project to test its Papernet Bio Tech toilet paper**

November 04, 2016 - 02:31

PORCARI, Italy, Nov. 4, 2016 (Press Release) - The Sofidel Group of Porcari (Lucca), one of the leading manufacturer of paper for hygienic and domestic use worldwide, has launched a project to test the effective sanitising properties of “Papernet Bio Tech” toilet paper.

Papernet BioTech toilet paper is an innovative, biologically active paper that, thanks to the presence of enzymes, sanitises the plumbing, reducing birdcages and unpleasant odours, helping to fight the bacteria of Legionella pneumophila and Salmonella, responsible for legionnaires’ disease and salmonellosis respectively.

After the excellent results achieved in the tests carried out in the industrial field, Sofidel was interested in continuing experimentation in society as well, and proposed the project to the Comune of Peccioli, in light of its many experiences of collaboration in technological and scientific research in recent years.

The Comune of Peccioli took the proposal, with technical support from the University of Pisa, with great enthusiasm, both for making a genuine contribution to the delicate field that is the environment and for benefiting from the positive effects of using this toilet paper on their plumbing, sewers, septic tanks and manholes over the three/four-month period.

Sofidel will also supply all of Peccioli’s households with BioTech toilet paper throughout the experiment, with the Comune delivering it to homes directly, from as early as the second half of November, together with an information leaflet. For this reason, an information campaign has already begun with distribution of an explanatory flyer.

The University of Pisa’s Industrial Chemistry Department will undertake waste water analysis at the purifier to demonstrate how constant use of BATP (Biologic Active TissuePaper, the active ingredient of Papernet BioTech toilet paper) can contribute to the cleaning and hygiene of plumbing and sewage systems.

“Since 1988 we’ve distinguished ourselves among Italian comunes by creating a town that can live and breathe with no effect on the environment. The Comune of Peccioli today represents excellence in these terms, and this is the reason for immediately accepting this collaboration with Sofidel, always committed, as ourselves, to protect the environment that surrounds us,” declared Renzo Macelloni, mayor of the Comune of Peccioli (Pisa).
WHO’S DOIN’ ANYTHING? (CONTINUED)

“The University of Pisa’s Industrial Chemistry Department has always enthusiastically welcomed any proposal with the main aim of advancing knowledge and scientific research, above all in areas that may lead to benefits for man and the environment. So we were delighted to accept Sofidel’s proposal of coordinating a study, which also sees the involvement of the Biology Department, and which will allow us to make a comparative assessment of three very different realities in using a high-tech product like Papernet BioTech,” stated Roger Fuoco, Head of the University of Pisa’s Chemistry and Industrial Chemistry Department.

“Sofidel aims to reinforce its commitment to researching innovative products able to improve quality of life for people and the environment,” declared Domenico Prestia, AFH Marketing Manager at Sofidel.

Valmet-supplied bleaching system starts up at Rottneros' pulp mill

October 25, 2016 - 23:16

ESPOO, Finland. Oct. 26, 2016 (Press Release) - A new high consistency bleaching system was started up according to plan at Rottneros pulp mill in Sweden on September 19, 2016. The start-up was smooth and the 48 hours test run was approved.

The bleaching system is the first step in a larger rebuild project, called Agenda 500, at the mill. The long term goal is to increase both availability and the total production volume of Rottneros two pulp mills to reach a capacity of 500,000 ton per year.

"The check-out and start-up of the plant went beyond expectation, as you want it to do, and we have already been able to lower the peroxide charge. We are very satisfied with the equipment we have bought and it looks promising for the future. We will now continue to ramp up production," says Jan Viper, Project Manager at Rottneros mill.

"This has been a great project, well organized by Rottneros. Having all instruments and surrounding connections prepared made a fast start-up possible. Commissioning took only three days. When we started the project, the time table was very tight, but in the end we were actually ahead of schedule. This is the first installation of the FKC screw presses in Europe, so this is a good reference case for us," says Lars-Olof Larsson, Project Manager at Valmet.

About Valmet’s bleaching system for mechanical pulp

Bleaching is part of the pulp production process. In bleaching the brightness of the pulp in a mechanical pulping line is increased by peroxide. The new bleaching system consists of a chemical mixer and a bleaching tower, two washing stages with screw presses, and medium consistency pumps. Before the bleaching tower the pulp is washed and pressed to a high consistency. Bleaching in high consistency gives an effective bleaching reaction and less chemicals are needed.

About the customer Rottneros

Rottneros produces market pulp and has an annual production capacity of just under 350,000 tonnes of pulp, produced at two mills in Sweden. In 2014 Rottneros employed around 250 people, the majority in Sweden and had sales amounting to approximately SEK 1.5 billion. Rottneros' shares have been listed on what is now Nasdaq Nordic, Stockholm since November 1987.

Valmet is the leading global developer and supplier of process technologies, automation and services for the pulp, paper and energy industries. We aim to become the global champion in serving our customers.
WHO’S DOIN’ ANYTHING? (CONTINUED)

Valmet’s strong technology offering includes pulp mills, tissue, board and paper production lines, as well as power plants for bioenergy production. Our advanced services and automation solutions improve the reliability and performance of our customers’ processes and enhance the effective utilization of raw materials and energy.

Valmet’s net sales in 2015 were approximately EUR 2.9 billion. Our 12,000 professionals around the world work close to our customers and are committed to moving our customers’ performance forward - every day. Valmet’s head office is in Espoo, Finland and its shares are listed on the Nasdaq Helsinki.

WestRock wins 12 awards at 2016 Paperboard Packaging Council Awards in San Antonio, TX

October 30, 2016 - 21:37


Entries were judged by a panel of esteemed packaging experts from various disciplines throughout the industry. WestRock won two of the most coveted awards, the Eco Award and the Innovation Award. The company was also recognized with four Gold Awards and six Excellence Awards for products spanning the beverage and folding carton businesses.

“Winning these awards is a true testament to our success in developing differentiated solutions for our customers,” said Bob Feeser, president, WestRock consumer packaging. “It’s an honor to be recognized among the best in our industry and a reflection on the many individuals who contributed to designing and manufacturing this innovative packaging.”

Andritz to upgrade debarking and woodyard equipment at Sappi North America’s Somerset mill

October 20, 2016 - 00:15

GRAZ, Austria, Oct. 20, 2016 (Press Release) - International technology Group ANDRITZ has received an upgrade order from Sappi North America for a high-capacity debarking line and woodyard equipment to be installed at Sappi’s Somerset Mill in Skowhegan, Maine. The new line will further reduce wood losses and enhance the mill’s reliability and performance. Commissioning of the new line, which has a design capacity of 300 t/h of hardwood chips and 270 t/h of softwood chips, is scheduled for the fourth quarter of 2017.

ANDRITZ’s scope of supply includes upgrade of the log infeed, delivery of a new 38-m long debarking drum with energy-efficient steam de-icing, an extra-large (XXL) HHQ-Chipper with ANDRITZ TurnKnife and ChipperEKG condition monitoring systems, installation of a new scalping screen, and upgrade of the chip handling equipment. ANDRITZ will also deliver an advanced Automation & Industrial Internet package, including optical systems for scanning wood, chips, and bark to optimize the debarking and chip production processes, as well as data acquisition and analysis tools to improve the mill’s operational performance.

ANDRITZ and Sappi North America have had a good business relationship for many years. Recently, ANDRITZ completed a successful project to convert the Somerset Mill’s lime kiln from oil to gas firing, which resulted in significant savings in energy costs for the mill.
WHO’S DOIN’ ANYTHING? (CONTINUED)

About the ANDRITZ GROUP

ANDRITZ is a globally leading supplier of plants, equipment, and services for hydropower stations, the pulp and paper industry, the metalworking and steel industries, and for solid/liquid separation in the municipal and industrial sectors. The publicly listed technology Group is headquartered in Graz, Austria, and has a staff of approximately 25,700 employees. ANDRITZ operates over 250 sites worldwide.

About ANDRITZ PULP & PAPER

ANDRITZ PULP & PAPER is a leading global supplier of equipment, systems, and services for the production and processing of all types of pulps, paper, tissue, and cardboard. The technologies cover the processing of logs, annual fibers, and waste paper; the production of chemical pulp, mechanical pulp, and recycled fibers; the recovery and reuse of chemicals; the preparation of paper machine furnish; the production of paper, tissue, and board; the calendering and coating of paper; as well as treatment of reject materials and sludge. The service range includes modernization, rebuilds, spare and wear parts, service and maintenance, as well as machine transfer and second-hand equipment. Biomass, steam, and recovery boilers, as well as gasification plants for power generation, flue gas cleaning plants, plants for the production of nonwovens, dissolving pulp, and panelboards (MDF), and recycling plants are also allocated to the business area.

About Sappi North America

Sappi North America, headquartered in Boston, is a market leader in converting wood fiber into superior products that customers demand worldwide. The success of our four diversified businesses – high quality Coated Printing Papers, Specialised Cellulose, Release Papers and Specialty Packaging – is driven by strong customer relationships, best-in-class people and advantaged assets, products and services. Our high quality Coated Printing Papers, including McCoy, Opus, Somerset and Flo, are the key platform for premium magazines, catalogs, books and high-end print advertising. We are a leading manufacturer of Specialised Cellulose used in a wide range of products, including textile fibers and household goods, and one of the world’s leading suppliers of Release Papers with our Ultracast, PolyEX, Classics and Neoterix lines for the automotive, fashion and engineered films industries. Our Specialty Packaging products, such as LusterPrint and LusterCote, represent an important asset in the food packaging and labeling industries. Customers rely on Sappi for high technical, operational and market expertise; products and services delivered with consistently high quality and reliability; and, state-of-the-art and cost-competitive assets and innovative spirit.

Sappi North America is a subsidiary of Sappi Limited (JSE), a global company headquartered in Johannesburg, South Africa, with more than 13,000 employees and manufacturing operations on three continents in seven countries and customers in over 100 countries around the world.

Tranlin faces battle with permits, pollution credits for $2 billion pulp and paper mill in Virginia

October 05, 2016 - 11:39

CHESTERFIELD COUNTY, VA, Oct. 5, 2016 (Local News) - Last week, Tranlin Inc. announced that it was moving forward with its $2 billion paper mill in eastern Chesterfield by hiring a global engineering company to help it with designing the facility and obtaining about 20 environmental permits.
WHO’S Doin’ ANYTHING? (CONTINUED)

But one of the permits that Tranlin, a subsidiary of China-based Shandong Tranlin Paper Co., will need to secure involves a complicated and somewhat untested system of trading pollution credits for nutrient contamination allowed into the Chesapeake Bay and surrounding waters.

Called the Chesapeake Bay Watershed Nutrient Credit Exchange Program, the system involves setting maximum limits for nitrogen and phosphorus that can be emitted by 121 so-called “point sources” on the bay and its estuaries, including the James River, where the pulp mill will be located.

Chesterfield Observer - Tranlin faces battle with permits, pollution credits

Andritz successfully starts up second PrimeLine W8 tissue machine with steel Yankee at St. Croix tissue mill in Maine, US

October 10, 2016 - 00:26

GRAZ, Austria, Oct. 10, 2016 (Press Release) - International technology Group ANDRITZ has successfully completed the start-up of the second of two supplied PrimeLine W8 tissue machines with steel Yankees at the St. Croix tissue mill in Maine, USA.

The machine has a design speed of 2,000 m/min and a width of 5.6 m. The Yankee is manufactured entirely of steel and has a diameter of 18 ft. It enables efficient drying at minimized energy costs and safe operation. As a special feature, the Yankee’s design enables the option of production with shoe press.

Both machines – the first of the two tissue machines started production in the second quarter of 2016 – have an aggregate capacity of 126,000 t/y for the production of hygienic papers and napkin tissues.

“We have had a good experience with ANDRITZ, they are a proven supplier,” says Arvind K. Agarwal, CEO of International Grand Investment Corp., the parent company of St. Croix Tissue. “We have considerable confidence in their technology and reliability. The start-up of the two PrimeLine machines was outstanding and the ability of the machines to produce high-quality tissue with excellent formation is allowing us to convert a commodity product into a value-added product.”

This successful start-up again confirms ANDRITZ PULP & PAPER’s position as one of the global market leaders for supply of complete tissue production lines, key components, and services.

Northern Pulp embarks on $10-million, 10-day mill maintenance shutdown in Nova Scotia

September 12, 2016 - 12:06

ABERCROMBIE, NS, Sept. 8, 2016 (Press Release) - Northern Pulp Nova Scotia Corporation is set to begin its annual maintenance shutdown on September 10. The purpose of such a shutdown is to carry out preventative maintenance on non-operating equipment. The shutdown, an event most industrial facilities undertake, will see the mill’s workforce skyrocket from just over 330 to nearly 1,000 workers with tradespeople descending on the Pictou County region.

The original shutdown budget of $8-million for the 10 day period has now been increased to just over $10-million, with over half of that covering wages. “The annual maintenance shutdown is key to ensuring a safe and reliable operation in the year to come. Not many companies have the opportunity to spend a million dollars a day for 10 straight days,” states Northern Pulp General Manager Bruce Chapman. “This is on top of our annual operating costs and capital projects.”

While the shutdown itself will occur over a 10 day period, extra crews have already been on site for the past four weeks and many will remain a week after the mill resumes production on September 20.

To handle the cars that accompany an extra 450 plus people at the Abercrombie Mill site, Northern Pulp has opened up a parking lot at the west end of the mill and hired a bus to transport workers from the parking lot to their work stations.
WHO’S DOIN’ ANYTHING? (CONTINUED)

While most contractors, tradespeople and technical experts come from throughout Nova Scotia, some will be travelling from Newfoundland, New Brunswick, Quebec, Ontario and British Columbia. “It is a busy spot around the mill and throughout the entire community as once again local hoteliers, retailers and restauranteurs welcome hundreds of tradespeople during their time here,” says Chapman. “I’m not sure which will be more challenging -- finding a parking space in our lot or a hotel room.”

Agenda 2020 Technology Alliance issues four RFPs for its next-generation pulping technology roadmap

August 09, 2016 - 02:18

WASHINGTON, DC, July 22, 2016 (Press Release) - The Agenda 2020 Technology Alliance has issued requests for proposals in four areas identified in its Next-Generation Pulping Technology Roadmap published this summer.

The four RFPs cover the following topics:

1. Yield-protective pretreatment - Develop pretreatments or in situ pulping additives that reduce the impact of the peeling reaction on the kraft pulping yield

2. Accelerate delignification – Develop strategies or in situ pulping additives that increase the rate of delignification without increasing the rate of carbohydrate degradation

3. Catalytic delignification - Evaluate transition or main group metals that can perform two-electron oxidation and/or serve as a delignifying chemical system

4. Improve O2 delignification selectivity to enable higher-kappa – Develop methods to delignify higher-yield (higher Kappa) pulps to conventional residual lignin levels through enhanced oxygen delignification

Agenda 2020 member companies will fund as many as three high-quality, responsive proposals. The proposals should be one to two years in duration and should not exceed $150,000 total ($75,000 per year).

Proposals in response to this RFP are due no later than 5 pm EST, Friday September 2, 2016. Selections will be announced approximately October 10, 2016.

Norske Skog’s Kawerau mill in New Zealand threatened with closure from electricity costs, managers say

August 12, 2016 - 13:42

WELLINGTON, New Zealand, Aug. 11, 2016 (Local News) - The managers of the Kawerau pulp and paper mill are warning the cost of electricity transmission could drive the plant out of business.

The mill, one of New Zealand's oldest industrial plants, could end up with an electricity transmission bill at least twice as much as last year's entire profit if the way New Zealand pays for its electricity is changed and might have to shut down, its managers say.

The plant is already coping with falling demand for newsprint and underwent big layoffs three years ago.

Radio New Zealand - New power charges will shred business, says paper mill
### 2017 Pulp & Paper Industry Division Calendar

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**Conferences**
- ISA SLM
- ISA PC&S
- ISA FLM

**Loggers Newsletter**
- New Year’s Day
- Martin Luther King Day
- Columbus Day
- Independence Day
- Labor Day
- Veterans Day
- Thanksgiving
- Christmas

**US Tax Day**
- New Year’s Day
- Martin Luther King Day
- Columbus Day
- Independence Day
- Labor Day
- Veterans Day
- Thanksgiving
- Christmas
ADDICTION OF NEW WASHERS TO AN EXISTING BROWN STOCK WASH LINE

BY: MONA HENDERSON & ANDERS HJORT

VALMET

mona.henderson@valmet.com

Originally presented at the 2016 Paperweek Canada Conference at the Fairmont Queen Elizabeth Hotel in Montreal on Thursday, February 4, 2016
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**  
http://www.isa.org/scripts/lyris.pl?enter=pupid&text_mode=&lang=english

**ISA Technical Conference Session Schedule**  
http://www.isa.org/Template.cfm?Section=Conferences_and_Exhibitions&template=taggedpage/conferencesbydate.cfm&icid=61

**Pulp & Paper Research Institute of Canada**  
http://www.paprican.ca/

- **TAPPI**  
  http://www.tappi.org/

- **PIMA**  
  http://www.pimaweb.com/

- **American Forest and Paper Association**  
  http://www.afandpa.org/

- **National Society of Professional Engineers**  
  http://www.nspe.org/

- **Swedish Royal Institute of Technology**  
  http://www.pmt.kth.se  
  http://www.hut.fi/English/

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**Technical Association of the Australian and New Zealand Pulp &amp Paper Industry (APPITA)**  

**Australian Pulp & Paper Institute**  

**ISO Standards Technical Committee List**  

**ISA Standards Committees Listserv**  
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0&lang=english

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**Quickies**

**ISA Pulp & Paper Technical Discussion Forum**  
Anybody (not necessarily an ISA or PUPID member) can subscribe to the PUPID Pulp & Paper Technical Discussion Forum. To subscribe, go to the PUPID homepage at http://www.isa.org/pupid/, select "Link to the PUPID email LISTSERV" in the pick box, click "Join", and enter you email address and a password.

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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!

FAR EAST CORNER

Nothing from anyone there this time!

EUROPEAN CORNER

Nothing from anyone there this time!

FROM THE LAND OF THE MIDNIGHT SUN

Nothing from anyone there this time!
1. Is the thermocouple which is in a Class I, Division 1, Group A hazardous area inherently safe and why or why not?
   D. No, because an electrical fault in the temperature recorder could cause excess energy to reach the hazardous area.
      (also see NFPA 496)

2. Assume the thermocouple does not meet safety requirements for the area classification. Select the best one of the following techniques to make it meet applicable wiring safety requirements.
   C. Install an intrinsic safety barrier in the circuit. This is better than installing a galvanic isolation device (which could also be made to work) due to the facts that intrinsic safety barriers are more economical, cover a broader spectrum of applications, and introduce virtually no measurement or control signal error.
      (also see NFPA 12.1)

3. Based upon you answer to question 2, select the additional apparatus needed and sketch a diagram of the resulting circuit, including any grounding.
   C. Install a double AC intrinsic safety barrier on the non-hazardous side of the circuit and ground the barrier and the recorder supply common to a grounding electrode with not more than 1 ohm path resistance.
      (also see NFPA 12.6)
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