

THE MAINTENANCE BEACON

The Monthly Newsletter of the North Carolina Public School Maintenance Association

Volume 59, Number 4
April 2022

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DON'T DELAY

Please register as soon as possible for the 14th Annual NCPSMA Western Convention Workshop. Many informative and credit hour renewal classes will be offered. Registration Forms (Single and Multiple), a tentative agenda and important information are available in this issue of The Maintenance Beacon as well as online (www.ncpsma.org). **The preregistration deadline is May 1, 2022.** Please don't delay in registering as NCPSMA receives a discount if all submission deadlines are met. Please contact Roxie Mack at 336 366 4939 or roxiermack@gmail.com if you have any questions.

HOW TO MAINTAIN MINIMUM PUMP FLOW IN HVAC APPLICATIONS

By Chad Edmondson

Hydronic HVAC systems must maintain at least a minimum flow through centrifugal pumps, otherwise the pumps can be severely damaged. Operating at no flow (known as dead heading) or even extremely low flow should be avoided. The ASHRAE Systems and Equipment Handbook states that operating in an extremely low flow condition can cause severe impeller shaft deflection due to increased radial thrust inside the pump. Dead heading will result in constant recirculation of water in the pump volute, which causes a significant rise in water temperature. If either of these situations are left untreated, it can cause bearings, seals, impellers and even the pump shaft to fail. This article discusses how to maintain minimum flow through centrifugal pumps so that these problems are avoided.

Any hydronic HVAC system that has two-way valves installed on the coils (as most do) is at risk if the proper flow control measures are not in place. ASHRAE actually requires two-way valves on coils to reduce flow during periods of low demand, thereby reducing pumping energy. However, there is a way to have your two-way valves and maintain the minimum flow required by your pumps.

First, you must determine the minimum flow requirement for the pumps. This information should be readily available from the manufacturer. (Note: If you cannot obtain the minimum flow requirement, see the heading, "What if you don't have the manufacturer's minimum flow requirement for your pump?" at the end of this blog.)

continued on page 5

Meetings and Events

2022 • 14TH ANNUAL WESTERN CONVENTION WORKSHOP May 25 & 26, 2022

Ridgecrest Conference Center, Black Mountain, NC
613 Cherry, Street North Wilkesboro, NC 28659
For more information please contact Roxie Mack @ 336.366.4939

2022 • 50TH ANNUAL EASTERN CONVENTION WORKSHOP September 21-23, 2022

DoubleTree, Atlantic Beach, NC
For more information please contact Roxie Mack @ 336.366.4939

DISTRICT THREE GOLF TOURNAMENT October 28, 2022 (RAIN DATE NOV. 4, 2022)

Wedgewood Golf Course, 3201 Old Stantonsburg Rd, Wilson, NC
For more information please contact Sue Farmer at 252.399.7823

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EXECUTIVE DIRECTOR JOB DESCRIPTION

North Carolina Public School Maintenance Association
Job Posting: Executive Director

A. Functional Purpose

The purpose of this position is to manage the finances, event planning, monthly publication, and other communications of the NCPSMA, in an effort to promote the Association Mission.

continued on page 3

MEETING DATES

The districts of NCPSMA meet twice yearly.

District 1

January, July

District 2

January, July

Pres. Ronald Moore

Phone: 910.296.1875

District 3

February, August

Pres. Greg Woodard

Phone: 252.399.7822

District 4

February, October

Pres. Donna Fields

Phone: 910.678.2565

District 5

March, September

Pres. Justin Dyson

Phone: 336.909.2280

District 6

April, October

Pres. Chris Adkins

Phone: 980.343.4526

District 7

May, November

Pres. Darryl Wagoner

Phone: 336.667.2021

District 8

March, November

V. Pres. Jason Kelly

Phone: 828.456.2402

Meeting Dates & Locations

Should be sent to The Maintenance Beacon two months in advance for publication.

Deadlines

Publication deadline for articles and advertisements is first day of the month prior to month of publication.



PROUDLY SUPPORTING NCPSMA MEMBERS

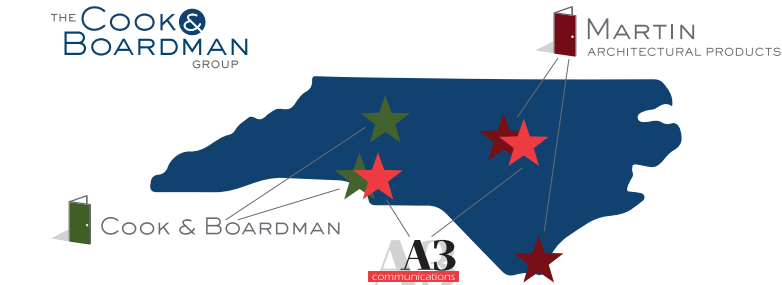
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- Installation, maintenance and service
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Raleigh Office: Greg Moorer | (803) 269-9222



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Winston-Salem Office: Vernon Spence | (336) 462-1829



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Willmington Office: Kyle Praeuner | (402) 841-1345

JOB DESCRIPTION

- B. Duties and Responsibilities

- Attends all meetings and be ready at any time to give impromptu, but accurate reports of the existing status of the activities relative to the association and the monthly publication.
 - Performs all work necessary for the gathering of news items, selling of advertising space in the monthly publication, contacting superintendents and others for their ideas, keeping up to date and accurate records of all subscriptions and advertisements, informing association members of duties expected of them and performing any and all other duties necessary to produce a good publication.
 - Maintains a morgue containing all pictures or new items of the North Carolina Public School Maintenance Association with cross-reference labels for future use (which should be kept to date).
 - Maintains records of all transactions, subscriptions, advertisements, memberships, potential advertiser list, disbursements and other records necessary to all posting up to date and see that all proper bills are paid on time; answer all required correspondence promptly.
 - Informs the executive committee or other appropriate committees of any irregularities, which cannot be completely dealt with at this level or of any incident, which these committees should be informed.
 - Collects and records all association membership dues and/or other funds.
 - Disburses all such funds upon the authority of the advisory council.
 - Provides quarterly reports to the finance committee prior to the regularly scheduled advisory council meeting.
 - Builds and/or maintains the best possible reputation for the North Carolina Public School Maintenance Association.
 - Works harmoniously with any committee, which the president or advisory council may see fit to appoint.
 - Serves as the registered agents of the corporation and shall notify the Secretary of State of any required changes
 - Plans and attends two conferences each year (Eastern and Western). This shall include all correspondence with the venues, vendors, catering companies, districts and officers. Event planning such as registration, advertisement, workshops, speakers, etc. will be part of these duties. Tentative agenda will be completed at the convention planning meeting and approved by the advisory council six months prior to the conference.
 - All other duties as assigned.

continued from page 1

C. Required Knowledge Skills and Abilities

- Ability to interact professionally with vendors to establish relationships gaining support for the NCPSMA.
- Be available to assist the association president and all district presidents in the establishing and the conducting of association or district meetings.
- Ability to work independently without direct supervision.
- General knowledge of office practices, procedures, and methods.
- Ability to set own work priorities and be flexible in adjusting workload and variety of tasks assigned.
- Ability to plan and organize work to meet established deadlines and professional staff requirements.
- Ability to quickly learn the general organization and operations of the NCPSMA.
- Ability to complete and handle accurately and confidentially records and files.
- Ability to evaluate existing programs and procedures and make recommendations for improvement.
- Ability to accurately interpret state and federal regulations and NCPSMA By-Laws.
- Ability to establish and maintain effective working relationships with membership, committee members, leadership, and vendors.
- Proficient in Microsoft Office Suite.

D. Education and Experience Requirements

Associates Degree in Business Administration, Office Management, Public Administration or equivalent and four years’ experience in office management, public administration or related field; or graduation from high school and six years of office management, public administration or related field; or an equivalent combination of education and experience.

E. Special Requirements

- Valid NC Driver’s License
- Furnish an office or workspace for all the equipment and supplies needed to perform said duties of the Executive Director. Including a landline telephone. (Stipend is provided for this expense)

- Ability to be continuously bonded in a minimum amount of \$50,000 (cost of such bond to be paid from the association treasury).
- Maintain a vehicle for travel between districts and other events (mileage reimbursement provided).

F. Physical Work Demands

Physical Activity	Frequency C-Constant F-Frequent O-Occasional I-Infrequent NR-Not Required	Physical Activity	Frequency C-Constant F-Frequent O-Occasional I-Infrequent NR-Not Required
Climbing/Balancing	I	Lifting/Carrying	O up to 50 lbs. NR up to 75 lbs
Crawling/Kneeling	O	Grasping/Twisting	I
Walking	F	Reaching	F
Running	NR	Pushing/Pulling	F
Standing	F	Fingering/Typing	C
Sitting	C	Driving	F
Bending/Stooping	F	Others:	

To apply for this position, please send your resume and cover letter to Mr. Michael Spillman, NCPSMA Executive Committee Chairman at spillmanm@davie.k12.nc.us

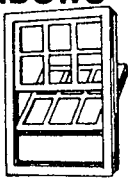


Cast all your anxiety on Him because He cares for you.
1 Peter 5:7

FUN YOUTUBE VIDEOS

- Fun YouTube videos to watch for a chuckle.
- Copy and paste address.
- How animals would run if they were people
<https://www.youtube.com/watch?v=DlqXePe4Hpk&t=1s>
- Orangutan driving golf cart like in The Sopranos
<https://www.youtube.com/watch?v=DJsn1QivbKM>
- Ducks say no to snow
<https://www.youtube.com/watch?v=ygSXgGFWYrk>
- How to build a tree in three minutes (Our son Rupard actually made this ‘reverse’ video of our Bradford Pear Trees being removed).
<https://www.youtube.com/watch?v=3FujFR5c1GI>
- First Snow (another one of Rupard’s)
<https://www.youtube.com/watch?v=OMWaOZ66Y0g&t=10s>

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DISTRICT THREE GOLF TOURNAMENT

SAVE THE DATE



WEDGEWOOD PUBLIC GOLF COURSE WILSON, NC
FRIDAY, OCTOBER 28, 2022
RAIN DATE – FRIDAY, NOVEMBER 4, 2022 1:00 PM
SHOTGUN START

NCPSMA ANNUAL GOLF TOURNAMENT

DISTRICT III SUPERBALL TOURNAMENT

DATE: October 28, 2022

RAIN DATE: November 4, 2022

PLACE: Wedgewood Golf Course 3201 Old Stantonsburg Road, Wilson, NC

Entry Fee: \$50.00 per person
\$200.00 per team

(THIS INCLUDES: GREEN FEE, RANGE BALLS, CART & LUNCH)
ALL CHECKS: PAYABLE TO: NCPSMA DISTRICT III

REGISTRATION FORM and PAYMENT FOR HOLE SPONSORSHIP AND TEAMS ARE DUE BY OCTOBER 21, 2022

!!!!!!ATTENTION!!!!!!
!!!!IF PAYMENT IS NOT RECEIVED BY THIS DATE YOU CANNOT PARTICIPATE!!!!

LUNCH AT NOON

Shotgun start at 1:00 PM

Hole Sponsorship: \$100 per hole

Prizes Include:Low Score, Closest To Pin, Longest Drive

Mulligan's: \$5.00 Each (MAX) 2

COMPLETE:

Team Name: _____

Team Players Names: _____

Address: _____

School Unit or Company: _____

RETURN TO:
Wilson County Schools – Maintenance Department
PO Box 3878, Wilson, NC 27895
Attention: Sue Farmer-Golf Tournament
Phone – 252-399-7823 Fax – 252-243-7197
Email: sue.farmer@wilsonschoolsnc.net

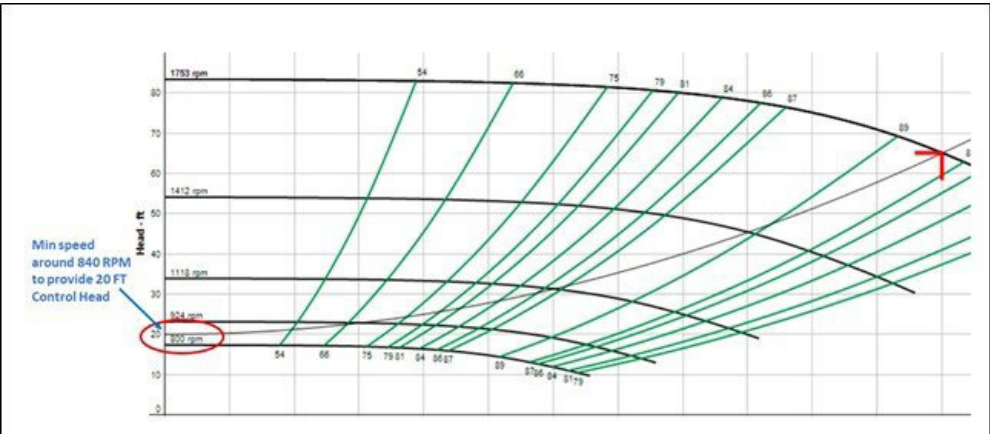
HOW TO MAINTAIN MINIMUM PUMP FLOW IN HVAC APPLICATIONS

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As an example, we have selected a Bell and Gossett pump for a design condition of 1200 GPM at 65 ft of head (Table 1). This pump, a model e-1510 5BD, has a 25 HP/1800 RPM motor. Notice that the manufacturer’s minimum flow for this selection is 263 GPM at full speed, which is 1770 RPM. Since most variable flow applications utilize a VFD to slow the pump down and save energy, we must determine what minimum pump speed is required to give us our *control head* – that is the minimum amount of head that must be present in the system at all times to establish full flow through the critical coil(s).

Pump Selection Summary			
Pump Capacity	1200 US gpm	RPM @ Duty Point	1753
Pump Head	65 ft	Impeller Diameter	9.5 in
Control Head	20 ft	NPSHr	14.8
Duty Point Pump Efficiency	87.6 %	Motor Power	25 hp
Pump PLEVV Efficiency	84.6 %	Motor Speed	1800 rpm
Duty point Power	22.4 bhp	Minimum Shutoff Head	83.4 ft
Minimum Flow at RPM	260 US gpm	Fluid Type	Water
Flow @ BEP	1132 US gpm	Fluid Temperature	68 °F
Weight (approx. - consult rep)	768 lbs	Floor Space	7.68 ft²

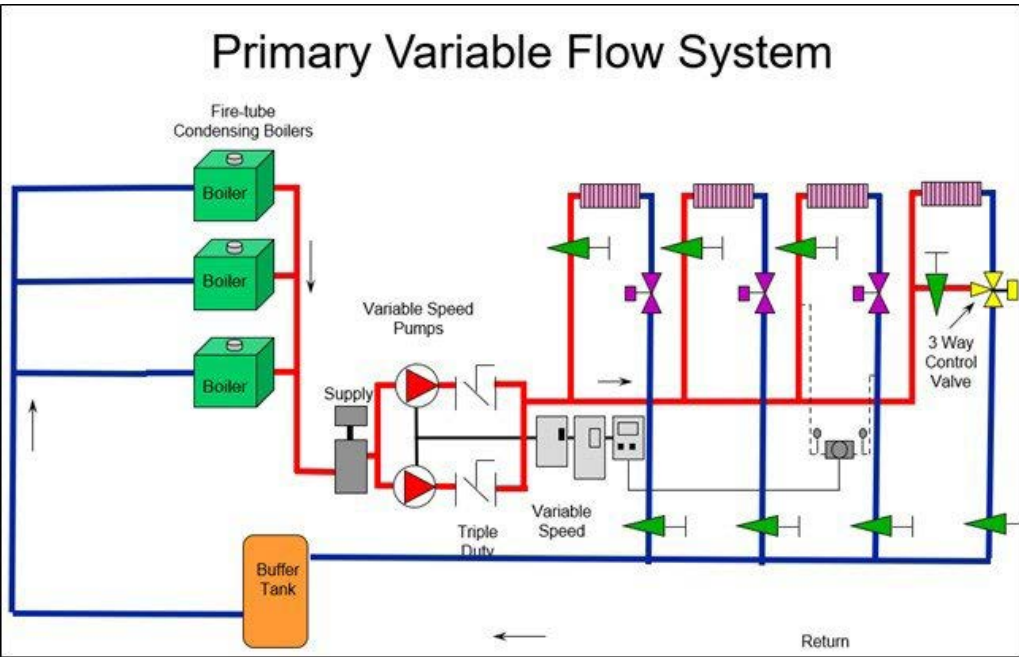
Let’s say we have a control head is 20 ft. We can consult the variable speed control curves to estimate the minimum speed needed to give us our control head. In this example, it would be around 840 RPM (Figure 1).



We can apply the pump affinity law to calculate the new minimum flow at this minimum speed: $RPM1/RPM2 = GPM1/GPM2$

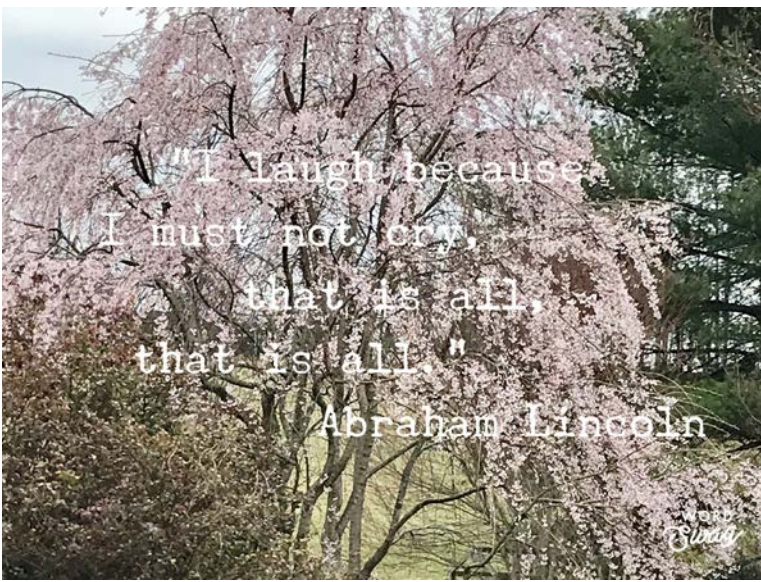
$$\frac{1770}{840} = \frac{263}{GPM2} = 125 \text{ GPM}$$

This tells us that we can operate at low flow for an extended period of time as long as we maintain 125 GPM through the pump. But how do we do that in a variable volume system with two-way valves? We simply swap the 2-way valve at the last coil(s) in the system with a 3-way valve (Figure 2).



With a 3-way valve installed as shown, we are always able to flow water thru the headers to the last coil and maintain our pump minimum flow if all the 2-way valves are closed. Another advantage of using a 3-way valve is the first three coils on the loop will always receive hot or chilled water at design temperature to the coil should a 2-way valve open. Keep in mind that multiple 3-way valves may be required, depending on the piping layout and minimum flow needed.

continued on page 10



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14TH ANNUAL NCPSMA WESTERN CONVENTION/WORKSHOP

SINGLE REGISTRATION FORM

for *Regular or Retired Regular Members

May 25 & 26, 2022 • Johnson Springs Conference Center at Ridgecrest, Black Mountain, NC

PLEASE PRINT

Name: _____

Name of School System (LEA): _____

Address: _____

City: _____ State: NC Zip _____

Office Phone: _____ FAX: _____

E-mail Address: _____

Important Information Needed for Ridgecrest – Will you be staying overnight at Ridgecrest or will you be a daily commuter?

Please check one:

Staying at Ridgecrest _____

Daily Commuter _____

Lunch on Wednesday and Thursday is included in the registration fee.

Additional Meal Tickets for the Ridgecrest Dining Room may be purchased to include Breakfast and Dinner on Wednesday, and Breakfast on Thursday. Meal tickets for the Ridgecrest Dining Room **must be** purchased with registration through Roxie Mack. Meal tickets **must not be** purchased from the Ridgecrest Staff. There will be no refunds for missed meals.

Conference Fees: Please circle all fees and items that apply and fill in blocks where appropriate.

PREREGISTRATION (Includes Lunch on May 25 & 26) Before May 1, 2022		REGISTRATION (Includes Lunch on May 25 & 26) After May 1, 2022		MEMBERSHIP		MEAL TICKET MUST BE PURCHASED IN ADVANCE		TOTAL
Cash/Check	Credit/Debit	Cash/Check	Credit/Debit	Cash/Check	Credit/Debit	Cash/Check	Credit/Debit	
___ x \$75	___ x \$77	___ x \$85	___ x \$87	___ x \$20	___ x \$21	___ x \$35	___ x \$36	

Payment Information

Checks: Payable to NCPSMA and mail to NCPSMA, 630 Adams Ridge Road, State Road, NC 28676

Credit/Debit Cards: Please call Roxie Mack at (336) 366-4939 with your information and the transaction will be completed online during the call. NCPSMA does not retain credit/debit card information. **Please do not write credit/debit card information on registration form. Please email or fax a completed registration form before calling with credit/debit card information.**

*Regular or Regular/Retired members are those currently employed and/or retired members in/of a NC Public School System. All others must register through Roxie Mack at (336) 366-4939 (phone); (336) 366-4938 (FAX) or roxiermack@gmail.com. For more information concerning this event please visit our website at www.ncpsma.org



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MEMBERSHIP APPLICATION

Please mail this form with your dues payment (\$20) to:
NCPSMA, 630 Adams Ridge Road, State Road, NC 28676-9536

Name

Address

City

State

Zip Code

Telephone () -

Email

School System

District

Company

(Individual memberships only-no 'company' memberships)

If you would like a reminder sent to your e-mail each month when the latest edition of the Maintenance Beacon is available online, please check below.

Yes I would like a reminder sent.

THE MAINTENANCE
BEACON

Executive Director: Roxie Mack

Phone: 336.366.4939

Fax: 336.366.4938

E-Mail: roxiermack@gmail.com

Website: www.ncpsma.org

The Maintenance Beacon is the monthly publication of the North Carolina Public School Maintenance Association. Advertising, editorial material, memberships and subscriptions are handled through the office of the Executive Director, 630 Adams Ridge Road, State Road, NC 28676-9536.

NCPSMA does not guarantee, warranty or defend the use of any products or services of those who sponsor, advertise or contribute articles in The Maintenance Beacon.

Officers of the Association

President	Bergie Speaks	336.667.2021
Vice President	David Martin	704.658.2630
Secretary	Justin Dyson	336.909.2280
Liasion Officer	Mark Letchworth	252.399.7822

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IMPORTANT INFORMATION

Important Exhibitor Information Concerning the Fourteenth Annual NCPSMA Western Convention/Workshop May 25 & 26, 2022

Hotel Reservations

Our reservation block with Ridgecrest *ends May 1, 2022*, after which date room rates are not guaranteed. Ridgecrest hotel room reservations are to be made on an individual basis. When you make your reservations for a hotel room at Ridgecrest, you *must* tell them that you are a participant of the NCPSMA Convention/Workshop. The room rates will be between \$79 and \$139 (no tax) depending on the room and occupancy number of each room. Reservations request will need to include group name and city along with the name, address, phone number and e-mail address if available for each attendee. *Reservations are to be made by calling directly into the Ridgecrest reservations department (800-588-7222).* All reservations are required to be guaranteed by a credit card number to “guarantee the room.” **Checks must be made payable to Ridgecrest.** Individual reservation deposit required is one night’s room rental. This deposit is refundable less a \$10/room processing fee if canceling 60 or more days prior to arrival, one-half refundable if canceling 30-59 days prior to arrival, and non-refundable if cancelling less than 30 days prior to arrival. Ridgecrest is not a “transient hotel”, thus rescheduling of cancelled rooms requires greater advanced notice. Please keep this in mind and help avoid cancellation penalties. **Check in time is 4:00 pm and check out time is 10:00 am. You need to let Ridgecrest know if you will need a handicap accessible room when you make your reservation.**

Meal Tickets

Meal tickets need to be purchased along with the registration (if you plan to eat meals at Ridgecrest). The following meals will be available on the meal ticket: Wednesday breakfast and dinner and Thursday breakfast, at a cost of \$35.00. Wednesday and Thursday luncheons will be provided by NCPSMA. Meal tickets must be purchased though Roxie Mack. Please purchase before May 10, 2022.

Ridgecrest Behavioral Standards

Ridgecrest is a Christian Conference Center. In keeping with our mission, the following standards help to assume the comfort of our guests.

- ☐ Alcoholic beverages, illegal drugs, firearms, and fireworks are *not* permitted anywhere on the grounds.
- ☐ The use of tobacco and tobacco related products are prohibited. A \$250 cleaning fee will be incurred per incident if this standard is violated.
- ☐ Burning of incense or candles is prohibited.
- ☐ Immodest clothing, distasteful monograms, bare feet in public areas, or any extreme styles of dress is prohibited.
- ☐ Pets are not permitted in any Ridgecrest facility. However, service animals as defined by ADA regulations are permitted. ADA regulations define a service animal as “any dog that is individually trained to do work or perform tasks for the benefit on an individual with a disability, including physical, sensory, psychiatric, intellectual, or other mental disability.” Per the US Department of Justice, “The crime deterrent effects of an animal’s presence and the provision of emotional support, well-being, comfort, or companionship do not constitute work or tasks for the purposes of this definition.” Such animals are not service animals and are therefore not permitted in any Ridgecrest facility.
- ☐ As a courtesy to all guests, please observe noise curfew from 11:30 pm and 6:30 am.
- ☐ Ridgecrest is not responsible for lost or stolen possessions. Ridgecrest does not assume responsibility for damage or loss of any material articles prior to, during or following events.

Use of Ridgecrest Conference Center, for this convention does not imply alignment with or endorsement by any Southern Baptist group.

Delivery Fees:

A delivery fee will apply to all boxes and pallets received by Ridgecrest. Delivery fees vary. If you need to have materials delivered to Ridgecrest, you must contact Ridgecrest to set up payment for the delivery fee. The pricing list can be found on their website: <https://ridgecrestconferencecenter.com/event-planning/meeting-planner-toolkit/important-information/>

Please remember that as a participant of the NCPSMA Convention/ Workshop, your actions and speech reflect upon NCPSMA as a whole. We “need” only positive feedback to school systems to ensure we are able to continue to hold such events. If you experience any problems during the convention, please come to the NCPSMA registration desk and see Roxie Mack, Ron Mack or Bergie Speaks and we will try our best to resolve your problem. If you have any questions or comments, please contact Roxie Mack, NCPSMA Executive Director 336.366.4939 or e-mail at roxiermack@gmail.com.

14TH ANNUAL NCPSMA WESTERN CONVENTION/
WORKSHOP TENTATIVE AGENDA

Johnson Springs Convention Center at Ridgecrest, Black Mountain, NC
May 25 & 26, 2022
Tentative Agenda

Wednesday, May 25	
7:00:8:00	Breakfast-Meal Ticket Required (Cafeteria)
7:30-4:30	Registration
8:00-10:00	“Electrical” (JS 5 / 2 nd Floor) 2 CEU’s – Class 1 of 4 - Must attend all classes <i>Presented by Will Hill</i>
	“Hydronic Tips” (JS 3 / 2 nd Floor) 2 CEU’s – Class 1 of 2 - Must attend all classes <i>Presented by Chris Norwood, James M. Pleasants</i>
	“Pesticide – Ornamental and Turf” (JS 4 / 2 nd Floor) 2 CEU’s –Class 1 of 2 (O&T) - Must attend both classes <i>Presented by Steve D. Pettis, Commercial and Consumer Horticulture Agent NC State Cooperative Extension</i>
	“NC Locksmith Renewal” (JS 1 D & H / 1 st Floor) 2 CEU’s – Class 1 of 4 - Must attend all classes for 8 hours renewal credit <i>Presented by ASSA Abloy/DSS Carolinas</i>
	“Playground Safety” (JS 2 B / 2 nd Floor) <i>Presented by Randy Cranfill, Surry Insurance</i>
8:00-9:00	Coffee Break for Exhibitors
8:30-9:00	Exhibitor Display Selection (JS 1 A / 1 st Floor)
9:00-10:00	Exhibitor Display Setup (JS 1 A, B, C, E, F, G / 1 st Floor)
10:00-11:00	Opening Session and Vendor Recognition (JS 2 C / 2 nd Floor)
11:00	Visit with Exhibitors (Exhibitors will distribute their individual door prizes during this time).
Noon	Luncheon with Exhibitors (JS 2 A&B / 2 nd Floor)
1:00-2:30	Visit with Exhibitors (Exhibitors will distribute their individual door prizes during this time).
2:30	Exhibitor Display Breakdown
2:30-4:30	“Electrical” (JS 5 / 2 nd Floor) 2 CEU’s –Class 2 of 4 - Must attend all classes <i>Presented by Will Hill</i>
	“Boiler Installation Pitfalls” (JS 3 / 2 nd Floor) 2 CEU’s – Class 2 of 3 - Must attend all classes <i>Presented by Chris Norwood, James M. Pleasants</i>
	“Pesticide – Ornamental & Turf” (JS 4 / 2 nd Floor) 2 CEU’s – Class 2 of 2 (O&T) - Must attend both classes <i>Presented by Steve D. Pettis, Commercial and Consumer Horticulture Agent NC State Cooperative Extension</i>
	“NC Locksmith Renewal” (JS 1 D & H / 1 st Floor) 2 CEU’s – Class 2 of 4 - Must attend all classes for 8 hours renewal credit <i>Presented by ASSA Abloy/DSS Carolinas</i>
	“OSHA Update” (JS 2 B / 2 nd Floor) <i>Presented by Randy Cranfill, Surry Insurance</i>
	“Bard Mobile Showroom” (JS 2 A / 2 nd Floor) <i>Presented by Joe Crowder, Loman Garrett</i>
4:45 until	Cornhole Tournament

5:30-6:30 (Cafeteria)	Dinner-Meal Ticket Required
Thursday, May 26	
7:00-8:00	Breakfast-Meal Ticket Required (Cafeteria)
7:30-11:45	Registration
7:45-9:45	“Electrical” (JS 5 / 2 nd Floor) 2 CEU’s – Class 3 of 4 - Must attend all classes <i>Presented by Will Hill</i>
	“Pesticide Structural” (JS 4 / 2 nd Floor) 2 CEU’s – Class 1 of 2 (Structural) - Must attend both classes <i>Presenter TBA</i>
	“NC Locksmith Renewal” (JS 1 D & H / 1 st Floor) 2 CEU’s –Class 3 of 4 - Must attend all classes for 8 hours renewal credit <i>Presenter – ASSA Abloy/DSS Carolinas</i>
8:00-10:00	“Fire & Loss Restoration” (JS 2 A / 2 nd Floor) <i>Presented by Patrick Brown, BELFOR Property Restoration</i>
	“Small Engine Repair” (JS 2 B / 2 nd Floor) <i>Presented by Mark Harrison, Technical Sales Specialist, Mid-Atlantic STIHL</i>
10:00 -12:00	“Electrical” (JS 5 / 2 nd Floor) 2 CEU’s – Class 4 of 4 - Must attend all classes <i>Presented by Will Hill</i>
	“Pesticide Structural” (JS 4 / 2 nd Floor) 2 CEU’s – Class 2 of 2 (Structural) Must attend both classes <i>Presenter TBA</i>
	“NC Locksmith Renewal” (JS 1 D & H / 1 st Floor) 2 CEU’s –Class 4 of 4 - Must attend all classes for 8 hours renewal credit <i>Presented by ASSA/Abloy/DSS Carolinas</i>
	“Small Engine Repair” (JS 2 A / 2 nd Floor) <i>Presenter Mark Harrison, Technical Sales Specialist, Mid-Atlantic STIHL</i>

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Wage and Hour Presentations

Investigators from the Wage and Hour Bureau offer presentations to employers, employees, high schools and career development organizations. The presentation covers the provisions of the Wage and Hour Act, minimum wage, overtime, record keeping, wage payment and youth employment. The presentation is designed to enhance North Carolina citizens’ knowledge of labor laws and to inform employers and employees of their rights and responsibilities in wage and hour matters. To schedule a presentation, please email whbinfo@labor.nc.gov with the following information: requesting individual or business, location, desired topics and preferred dates for presentation.

Library Update

The NCDOL library’s subscription to the Training Network NOW safety and health video streaming service, now called **Streamery**, was recently renewed and will not expire until August 2022. Please contact the library at dol.library@labor.nc.gov or 919-707-7880 if you’re interested in accessing and streaming online safety, health and human resources related videos or other safety resources. Refer to the library page on the website for more information.




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HOW TO MAINTAIN MINIMUM PUMP FLOW IN HVAC APPLICATIONS

What if you don’t have the manufacturer’s minimum flow requirement for your pump?

What if you don’t know the minimum required flow through the pump? Perhaps it’s an older installed system and the pump specification and documentation can’t be found. In this case, you may consider a practiced “rule of thumb” that suggests having 1 GPM of flow per motor horsepower. In other words, this rule assumes that if you have a 25 HP pump, you will need at least 25 GPM of flow through the pump.

Now you may be thinking, “Isn’t that a lot less than what I might calculate based on a manufacturer’s minimum pump flow requirement?” and you would be correct. Obviously, if you apply this rule of thumb to the example described in this blog, it will give you a minimum flow of 25 GPM versus the 125 GPM we just calculated based on the manufacturer’s requirement. But before you toss this particular rule of thumb out the window, keep in mind that (1) most HVAC systems do *not* operate at low flow for extended periods time, and (2) manufacturers are generally quite conservative when assigning minimum flows to their pumps.

The basis for using 1 GPM per horsepower is that it will limit the temperature rise of the water in the pump volute to 5 degrees. The math (and physics) happens to bear this out:

1 HP = 2544 BTU/hour

BTU/hour = 500 X GPM X delta-T

If the delta-T is 5 degrees and we have 2544 BTU/hour of heat: 2544 BTU/hour ≈ (500)(5) X GPM

Therefore, 1 GPM per motor HP *will* limit the temperature rise to 5°F, assuming the system is unknown or unexpected to operate at low flows for an extended period of time.

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BE AWARE OF SCAMS

What You Should Know

Though there are different types of scams, the objective is the same: to steal your money or information. Scammers often use sophisticated tactics to commit fraud that make it hard to cancel or reverse the transaction. If you send money to a scammer, you may not be able to get it back. Worse, if you knowingly take part in a scam, you could face hefty fines and criminal charges. Here are some common ways scammers pressure you to pay:

Wire Transfers

Wire transfers are an immediate form of payment that deposit money directly into another person’s account and are typically irreversible, even if fraud is involved.

Digital Payment

Digital payments allow you to send money to another person without using their bank account number. Using a service like Zelle®, CashApp®, or Venmo® is like sending cash. Be on the lookout for bank imposters who tell you to send money to yourself with Zelle® claiming that the payment is to reverse a suspicious charge. We’ll never ask you to send money to yourself or anyone else.

Gift and prepaid card

Scammers may ask you to pay them using a gift or prepaid card because they are like cash. If you are ever asked to pay or donate in the form of a gift card or prepaid card, it’s a scam

Cryptocurrency

Cryptocurrency is digital money that is not backed by the U.S. government, and once sent, is irreversible. As part of a job or investment scam, you could be asked to make a payment using cryptocurrency, such as Bitcoin or Ether.

BE AWARE OF SCAMS

continued from page 10

Check or account deposit

Scammers may send you a fake check or make a deposit into your account. Once the deposit has been made, you are asked to send all or a part of it back. After you send the money, you find out that the check or deposit is fraudulent.
Note: You are responsible for the full amount of the check you deposited and associated check fees if it is returned. It may typically take up to 10 business days for a check to be discovered as fraudulent and returned to your bank. (This varies by state and can take up to a few years.)

Debit or credit card

After obtaining your debit or credit card number through a scam or data breach, scammers may use it to make unauthorized purchases. [Set up alerts](#)² to help you track your transactions and spot unusual account activity.

Here’s what you can do to help protect yourself.

Spot warning signs of a scam by being wary of

- Get-rich-quick schemes. If an offer seems too good to be true, it probably is.
- Unexpected calls, texts, social media posts, or emails where someone asks you to send money, provide your account information, or give them access to your device.
- Scammers impersonating tech support companies, government agencies, and even Wells Fargo to pressure you to act right away. Don’t be afraid to end communication with the person who contacted you so you can have time to do more research.

Follow these tips to help avoid a payment scam:

- When using Zelle® or a wire to pay someone, double check your payment details to make sure that your money goes to the right person. If you send money as part of a scam, you may not be able to get it back.
- Don’t send money or give your account information to anyone you don’t know or a company you can’t verify as a legitimate.
- Don’t send money back to someone who has provided a check or overpayment for goods or services.
- Don’t cash checks for others or provide your account or sign-on information. If the check is bad, you are liable.
- Don’t allow anyone else to use your device and make sure you have extra layers of security added to your banking and payment apps. Learn more about Wells Fargo’s [Security Tools and Options](#).

Common Scams

Card Cracking

You see a post about making money. Scammers ask for your debit card and PIN or mobile banking username and password to deposit a fake check into your account. They may ask you to report your card lost or stolen or that your credentials have been compromised in order to seek reimbursement from the bank. In exchange, scammers may promise you a portion of the funds you deposit.

Tip: Knowingly depositing bad checks is illegal and can result in fines and criminal charges.

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BURNERS & ACCESSORIES	PIPE FITTINGS

Friend/family member imposter

You receive a call, text, email, or social media message from someone that appears to be legitimate because the scammer has some specific information about you, such as your name and details about your friends and family. Using this method, scammers can trick you into believing they are a friend or family member, claiming to need money for an emergency, such as posting bail, paying a hospital bill, or being detained at an airport. Scammers may pressure you to send money immediately through a gift card, wire transfer, by sending cash, or other payment service, such as Zelle®.

Tip: Contact your friend or family member directly to confirm the caller’s story.

Lottery or sweepstakes

You receive a phone call, email, or letter stating you have won a lottery or sweepstakes. Scammers require you to pay a fee to receive the prize to avoid taxes or additional fees, or may even threaten to report you to the IRS or police if you don’t make the requested payment.

Tip: Legitimate lotteries pay taxes directly to the government rather than being reimbursed from winners’ proceeds. It is also against U.S. law to play a foreign lottery.

Online dating

Scammers use online dating sites, social networks, and chat rooms to meet potential victims. They create fake profiles to build online relationships. Eventually, they ask for help with their finances. They may request you send money for a hardship or even for you to open an account or deposit checks on their behalf.

Tip: Do not give personal information, account numbers, or credit card information to someone you recently met online.

See more on scams in May issue

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