THE MAINTENANCE BEACCONS

The Monthly Newsletter of the North Carolina Public School Maintenance Association

Dr. Jennifer F. Hefner has

served as the Superintendent of

Alexander County Schools since August 1, 2014. She has made

a career at Alexander County

Schools that has spanned over 35 years. Prior to becoming

Superintendent she was the

Acting Superintendent and Interim Superintendent. Dr.

Hefner as served many roles

in the Alexander County

School system. She served as

the associate superintendent,

superintendent, central office

Curriculum, Student Services (K-12), Title 1 and has led the Common Core and Essential

She served as the principal,

Bethlehem Elementary School.

She taught math at Bethlehem

and at the Alternative Learning

Central High School, but her

career in the school system

began as a teacher assistant

and bus driver at Sugar Loaf

Elementary School.

with

principal

Specialist

assistant

and

at

Elementary

Alexander

Implementation.

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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



NCPSMA Superintendent of the Year

interim

Standards

assistant

Program

Curriculum

director over









Dr. Hefner is a 1986 graduate of Alexander Central High School. She attended Catawba Valley Community College in the Pre-liberal Arts Program before graduating Magna Cum Laude from Lenoir-8 with a Bachelor of Arts Degree

Rhyne College in 1993 with a Bachelor of Arts Degree in Elementary Education. She then completed her Doctorate in Educational Leadership from Appalachian State University. She also holds an Educational Specialist Degree and a Master's in School Administration from Appalachian State University. Dr. Hefner admits she has never been the traditional college student. She earned all of her degrees while working a full-time job attending classes at night and on the weekends which shows how hard working and dedicated she is. She is very passionate about Alexander County Schools and is very proud that continued on page 5

March 2024 Meetings and Events

DISTRICT EIGHT MEETING March 26, 2024 at 6:00 pm

Volume 61, Number 3

Buncombe County Schools, Martin L. Nesbitt Jr. Discovery Academy 175 Bingham Road, Asheville, NC 28806 For more information please contact District Pres. Clark Wyatt or District Sec. Rachel Bryant at 828.232.4244

DISTRICT SEVEN SCHOLARSHIP APPLICATION DEADLINE

March 29, 2024 See Application in this Edition

16TH ANNUAL WESTERN CONVENTION

May 21-23, 2024 Ridgecrest Conference Center 1 Ridgecrest Drive, Black Mountain, NC 28711

52ND ANNUAL EASTERN CONVENTION

September 24-27, 2024 Double Tree by Hilton

2717 W. Fort Macon Rd, Atlantic Beach, NC 28513

DISTRICT THREE GOLF TOURNAMENT October 25, 2024 • Lunch at 12pm • Shotgun Start at 1pm Wedgewood Public Golf Course

3201 Stantonsburg Rd., Wilson, NC

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District 6

April, October Pres. Chris Adkins Phone: 980.343.4526 **District 7**

May, November Pres. Jeff Adams Phone: 336.551.1109 **District 8**

March, November Pres. Clark Wyatt Phone: 828.232.4244

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.

Registration is Now Available for the Western Convention

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The North Carolina Public School Maintenance Association (NCPSMA) would like to invite you to an educational and interactive experience in Black Mountain, North Carolina. The 16th Annual NCPSMA Western Convention will be held May 21-23, 2024, at the Ridgecrest Conference Center. Join your colleagues from across the state, exhibitors, and guest speakers for two days of learning and professional growth.

NCPSMA Registration will open on Tuesday, May 21, 2024, at 9:00 am with classes beginning at 1:00 pm and continue through Thursday, May 23, 2024. There will be a variety of classes offered, including CEU classes. Exhibitors will be set up on Wednesday, May 22, 2024, for attendees to see new products and services that will continued on page 5

MARCH 2024 • THE MAINTENANCE BEACON



PROUDLY SUPPORTING NCPSMA MEMBERS

We're your premier provider of architectural doors and frames, door hardware and related building specialty products as well as complete system integration services including: physical security, enterprise networking, low voltage cabling and more!

Helping to Maintain North Carolina's Schools Since 1955

The Cook & Boardman Group of companies is your premier provider of integrated security solutions for building access control and occupant safety. We are the nation's largest distributor of commercial doors and hardware - and the sixth largest security systems integrator. With six convenient locations across the Tar Heel State, we're uniquely positioned to provide the best solutions for educational facilities. Allow us to offer you:

- Assessments
- Value engineering
- Specification review
- Project management
- Fire and life safety code compliance
- Installation, maintenance and service
- Product support/warranty management

To eliminate procurement headaches, choose our team to act as your single source for new construction and remodeling projects, as well as for any IT implementation. Contact your local branch to get started today!

Meet Your Local CBG Teams





A3 Communications Construction Divisions: 27 & 28

With offices in Charlotte and Raleigh, A3 Communications is one of the nation's leading systems integrators. Purchase both your IT and physical security needs from one of their many state contracts!

Contact: Kevin Wren | (803) 984-7007



Cook & Boardman Construction Divisions: 8 & 10

With offices in Charlotte and Winston-Salem, Cook & Boardman has provided architectural doors, frames and hardware across the state since 1955. Counter sales, preinstallation, fabrication, installation and service available!

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ARCHITECTURAL PRODUCTS



Martin Architectural Products

Construction Divisions: 8 & 10

With offices in Cary and Wilmington, Martin Architectural Products is the leading provider of architectural doors, frames and hardware in eastern North Carolina. Counter sales, installation and service available!

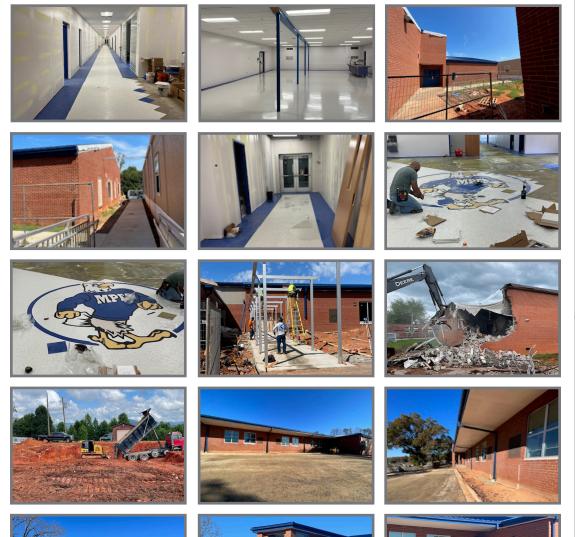
Cary Office: Ira Garner | (919) 868-6593 Willmington Office: Kyle Praeuner | (402) 841-1345

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Wilkes County Schools Construction Projects

Mt. Pleasant Elementary School Additions and Renovations

Construction started at Mt. Pleasant Elementary School in June of 2022. The overall project consisted of razing a 1950 building with four classrooms and adding an addition of eight classrooms and tying in the remaining three buildings ranging in age from 1965 to 1980 where they would all be under one roof. Each of the three remaining buildings received new lighting, drop ceilings and HVAC. The older two buildings were renovated throughout the same time as the new construction with students staying out of them. The 1980 building was renovated over the summer of 2023. It was an extremely quick turnaround on that remodel. The students who were in two of the old buildings and the 1950 building have been in a temporary modular pod throughout construction while the others have remained in the 1980 building. On February 5, 2024 we received our Temporary Certificate of Occupancy (TCO) to occupy the building. On February 20 we transitioned students from the modular unit to the new classrooms. This is an exciting time for both students and staff who have endured the construction for the last 1 ½ years. The cafeteria was part of the renovations. Cafeteria staff were allowed to cook in the kitchen but meals had to be carted to classrooms each day. A teacher was telling me about some Pre-K students from 2021-2022 school year that had never eaten in the cafeteria. They said how excited they were when they heard they were going to eat in the newly remodeled cafeteria. I wish I had been there to see their faces. She said it was priceless. The next step is getting the modular pod removed and the carline extended with some additional parking spaces paved. Once these are finished the project will be complete. Check out the attached photos throughout the construction. Both the staff and students were wonderful throughout the process.



Pump Optimization with Large Impellers Part One: Why Bigger Really is Better

By Mark Bingham



Variable speed drives (VSDs) are less expensive and more reliable than a decade ago, paving the way for new best practices when specifying pumps. Traditionally, pumps have been specified with impellers trimmed to deliver peak

load without overloading the pump motor. But is all that trimming necessary now that VSDs can reliably vary flow across the entire operating range of a pump?

It may surprise many that trimming the diameter of an impeller decreases a pump's efficiency. The extra clearance between the impeller and volute creates more internal recirculation and turbulence, resulting in efficiency losses. There are times when trimming an impeller may be the most affordable solution, such as when an installed pump is found to be oversized. However, there are many reasons to select a maximum-sized impeller for a new variable-speed pump application. A quick review of the pump affinity laws is an excellent place to start.

Pump Affinity Laws

The pump affinity laws define the mathematical relationship between pump impeller diameter or speed and flow, total head, and power consumption. These formulas predict the impact of change in pump impeller diameter or speed (RPM) on the pump head, pump flow, and brake horsepower (BHP) of the pump in a closed system. They are defined as follows:

Nomenclature:

- q = volume flow capacity (gpm, m3/hr; l/s,...)
- n = impeller velocity revolutions per minute (rpm)
- **d** = wheel diameter (in, cm...)
- dp = head or pressure (ft, m, psi,...)
- **P** = power (hp, kw,...)

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MARCH 2024 • THE MAINTENANCE BEACON

PRESS RELEASE

Sponsors Needed to Help Provide NC Supper Meals

More than one million North Carolina students rely on the nutritious meals and snacks served during the school year through the School Breakfast, School Lunch and Afterschool Meals Programs. When school is out of session, North Carolina's Summer Nutrition Programs help fill the gap by providing free meals and snacks to children, ages 18 and younger, who might otherwise go hungry.

The N.C. Department of Public Instruction (NCDPI) is seeking schools and community organizations to serve as sponsors for Summer Nutrition Programs in 2024 to help ensure children who have limited access to food at home get the educational enrichment and nutritious meals they need for optimal growth, development and overall well-being. Of particular need are schools and community organizations in rural areas, Indian Tribal Territories, and areas with a concentration of migrant farm workers, where access to summer meal sites or transportation has been an issue. New federal regulations permit sponsors with a rural designation to apply for State Agency approval to allow meals for multiple days to be taken away from the meal site for children to enjoy throughout the week.

Last summer, NCDPI approved 175 sponsors to help provide reimbursable meals for children. Through these community partnerships, community and school sites served over 3.9 million meals to hungry children at 2,492 sites across the state. N.C. Summer Nutrition Programs are administered by the NCDPI, Office of School Nutrition, with federal assistance from the U.S. Department of Agriculture (USDA). NCDPI collaborates with public school units, charter and non-public schools, public and private non-profit organizations, and other community partners to serve as program sponsors. Sponsors are eligible to receive federal reimbursement for all qualifying meals served to children.

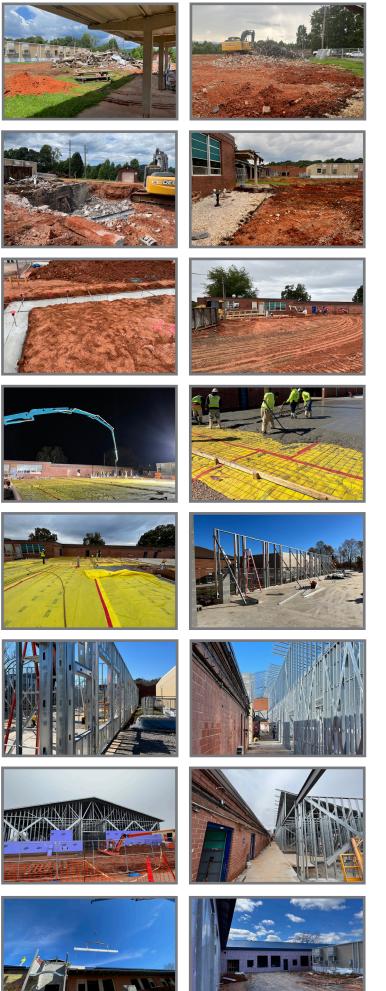
State Superintendent of Public Instruction Catherine Truitt underscored the importance of community partnerships to support students' nutrition needs during the summer.

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Wilkes County Schools Construction Projects

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Registration is Now Available for the Western Convention

enhance your daily work experience.

continued from page 1

Registration

- Registration is \$75 per person (\$78 for debit/credit payments).
- When completing the registration form, please print neatly as the information for name badges and certificates will be taken from this form.
- The deadline for pre-registration is May 1, 2024. Registrations not received before that date may be subject to a \$10 late fee.
- If you plan to eat in the cafeteria at Ridgecrest a meal ticket must be purchased when you register.
- Please note on the registration form if you will be staying on site at Ridgecrest or will be a daily commuter. We have to give a count to Ridgecrest of daily commuters as we pay a fee for daily commuters.

Meal Tickets

- Meal Tickets can be purchased for \$60 per person (\$63 for debit/credit payments).
- Meals include are:
- **Tuesday: Dinner**
- Wednesday: Breakfast and Dinner
- Thursday: Breakfast only
- Meal Tickets must be purchased through NCPSMA Executive Director Kristie Payne before May 1, 2024.
- Due to our Catering Cutoff date of May 1st, Meal Tickets CANNOT be purchased at the Convention.
- A Buffet Lunch will be served Wednesday and Thursday, which is included in your event registration fee.

Membership

- Each person attending must be a member
- Membership is annually from July 1 through June 30.
- Membership Dues are \$20 per person (\$21 for debit/credit payments).

Hotel Reservations

- Room reservations are to be made on an individual basis. •
- Reservations should be made by calling Ridgecrest Reservations Department directly at 1-800-588-7222.
- Special room rates for this convention range from \$129 \$149 (before taxes), depending on room type and room occupancy.
- In order to receive the special convention rate, you must inform the Reservationist at the time of booking you are attending the "2024 NCPSMA Convention".
- NCPSMA 2024 Western Convention reservation block ends May 4, 2024, on this date the Ridgecrest will release the Reserved Room Block and these rates will no longer be available.
- A credit card will be required for booking your reservation.
- Individual reservation deposits require a one (1) night's room rental.
- This deposit is refundable less a \$10 per room processing fee if cancelling 60 or mor days prior to arrival, one-half refundable if canceling 30-59 days prior to arrive, 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.

Meet Dr. Jennifer Hefner















continued from page 1 she is a product of it and having the honor to work and lead in the school system that shaped her as a person she feels is a rare and very special thing.

Dr. Hefner is very active in her community as well. She is a member of the Taylorsville Rotary Club and is a Board Member of the Alexander County United Way. I have never met a more humble but well deserving lady who is outstanding in so many areas. She truly cares so much for others and you can feel it when you meet her. I find her to be like a rare gem and Alexander County is so blessed to have her. Some other organizations have recognized her generosity and giving nature and have given her recognition through the years. The Taylorsville Rotary Club awarded her with the Paul Harris Fellow. Some of the other special honors she has received include: (1994) Sallie Mae First Year Teacher; (2007) Alexander County Principal of the Year; (2007) Northwest Regional Finalist for Wachovia Principals of the Year; (2012) Administrator of the Year for the North Carolina Association of **Educational Office Professionals** in Alexander County; (2012-13) Administrator of the Year for the North Carolina Association of Educational Office Professionals District 3; (2012-13) in Katrina V. Miller Administrator of the Year North Carolina Association of Educational Office Professionals; (2022) Appalachian State University Rhododendron Society Reich College of Education and most recently in 2024 the Superintendent of the Year North Carolina Public School Maintenance Association.

Working in the school system for many years has afforded her to see the ups as well as the downs along the way. There are some challenges in her job one of which is working within a "finite" budget with "infinite" student and family needs and walking a tightrope with politicians at the state and local levels. But she wouldn't

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THE MAINTENANCE **BEACO**

Executive Director: Kristie Payne Phone: 828 565 0115 E-Mail: office@ncpsma.org 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, 224 Mulberry St. Clyde, NC, 28721

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 | Mark Letchworth |
|--------------------------|-----------------|
| Vice President | Chris Campbell |
| Secretary | Jodene Abney |
| Liaison Officer | Jamie Johnson |
| Immediate Past President | David Martin |

252.236.8907 or NCPSMAPresident@gmail.com 828.635.8248 x 303 or chriscampbell@alexander.k12.nc.us 910.678. 2488 or jodeneabney@ccs.k12.nc.us 252.426.2511 or jamiejohnson@pqschools.org 704.658.2630 or dmartin@mgsd.k12.nc.us hard-working professionals I have ever had the honor to work with." she said. She said the best advise she has ever received was to listen to people as though you were going to be tested at the end of the conversation. A lot of times, people just want to be heard and they can tell if you are truly listening to them.

And of course there are those little moments that make everything worthwhile. When asked what her best moment she has ever had she did not hesitate with the answer. She said, "I served as an elementary school principal for nine years. During that time, I had a little girl hug me one day and when she looked up into my eyes, she said, "I wish you were my momma". I replied, "Nothing would make me happier." That was the best moment for me"

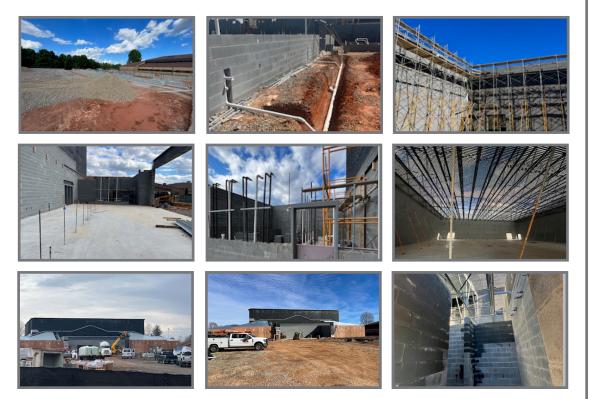
Dr. Hefner attends enjoyed the opportunity to host district meetings and has even served as our guest speaker. Four years ago, Dr. Hefner joined NCPSMA and she cannot say enough about the association. She only wishes the other sectors of our school system could witness the benefits continued on page 10

Wilkes County Schools Construction Projects

Wilkes Central High School New Gym

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In June of 2023 grading began in order to reroute the student drive and level out an area for a new Varsity Gym on the front side of Wilkes Central High School campus. We were able to get everything graded, the new drive paved and footings done before school started. One area where the front end of the gym is located we had to remove a 12,000-gallon UST. It was removed over spring break so we wouldn't slow any construction down. Today, we have the main gym under roof with plans to have the side wings and front entrance dried in sometime early to mid-March. Construction is scheduled to be complete in July of 2024. It is exciting for the school to be a part of picking colors for things like the duct sox (HVAC duct work), sound panels, scoreboard, floors, walls, and locker colors. As things progress, the building is taking shape and looking more like a gym. Once school is out for the summer, we will take up the remaining front entrance, regrade that area and pave the entire front parking lot.



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MEMBERSHIP APPLICATION

Membership runs from July 1, 2023 through June 30, 2024.

Membership Dues are \$20.00 if paying by check. Complete this form and submit along with your check for \$20.00 to: NCPSMA, 224 Mulberry Street, Clyde, NC 28721

| NAME | | | | |
|--|-----|-------|-----|--|
| LEA (Local Educational Agency) OR COMPANY | | | | |
| ADDRESS | | | | |
| CITY | | STATE | ZIP | |
| TELEPH | ONE | | | |

Pump Optimization with Large Impellers Part One: Why Bigger Really is Better

continued from page 3

Volume capacity - Pump GPM capacity varies DIRECTLY as the speed (RPM) or impeller diameter ratio change.

 $q_1 / q_2 = (n_1 / n_2) (d_1 / d_2) eq. 1$

Head or Pressure - Total pump head varies directly as the SQUARE of the speed (RPM) or impeller ratio change.

$$dp_1 / dp_2 = (n_1 / n_2)^2 (d_1 / d_2)^2 eq. 2$$

Power - BHP varies directly as the CUBE of the speed (RPM) or impeller diameter ratio change.

$$P_1 / P_2 = (n_1 / n_2)^3 (d_1 / d_2)^3 eq. 3$$

The calculations used to determine impeller trim are based on these laws. They provide a reasonable approximation of how a pump's flow, head, and power will change with changes in speed or impeller diameter. However, the affinity laws assume that efficiency remains constant as impeller sizes change. Actual pump curves, based on laborious manufacturer testing, reveal a different story.

Overlooked Efficiency Losses of Trimmed Impellers

You've probably noticed on pump curves that a pump's best efficiency point (BEP) always occurs where the impeller is full-sized. As we trim the impeller, the operating efficiency of the pump decreases. Since trimming is irreversible, engineers tend to be conservative when it comes to reducing impeller size. If the trimmed diameter still produces excess head, the pump must be throttled to consume the excess energy. The resulting energy penalty is in addition to the inefficiencies introduced by impeller trimming.

Equation 1 above indicates that changing pump speed with a VFD yields the same performance changes you would see on a pump if you were able to instantly change the impeller size with changes in demand. However, changing operating points with VFDs are not subject to the same decreases in efficiency that result from reduction in impeller diameter.

Large Impeller and VFD Maximize Efficiency

A full-size impeller, combined with a VFD, allows for infinite flow and head combinations within the boundaries of the variable speed pump curve without the progressive losses in pump efficiency associated with trimming the impeller.

| E-MAIL | | | |
|---|--|-----|----|
| Would you like a reminder sent to your e-mail each month when the latest edition of the Maintenance Beacon is available online? | | YES | NO |

| | MEMBERSHIP TYPE | |
|------------------------|---|--|
| REGULAR MEMBERSHIP | Available to all maintenance employees of various city, county, and state public schools as well as institutions of the community colleges. | |
| REGULAR RETIRED MEMBER | Available to all RETIRED maintenance employees of various city, county, and state public schools as well as institutions of the community colleges. | |
| ASSOCIATE MEMBER | Available to all people interested in the betterment of public- school maintenance including school board members, superintendents, principals, teachers, and vendors. ** Associate Members DO NOT have voting privileges. | |

| MEMBERSHIP | | Continuation of Current Membership |
|------------|--|------------------------------------|
| | | First Time Member |
| | | |

Are you the Maintenance Director / Supervisor of your LEA?

| YES | NO |
|-----|----|

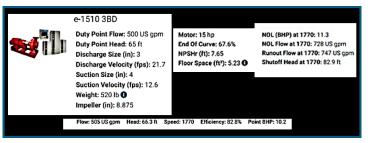
Online payments of \$21.00 per membership are accepted at www.ncpsma.org

Online payments of \$21.00 per membership are accepted at www.ncpsma.org

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| PAID FOR WITH CASH or CHECK # RECEIPT # | | |

As an example, let's say we need a pump to operate at 500 gpm at 65 feet.

A constant speed e15103BD with the impeller trimmed to 8.875" to meet the duty point has an efficiency of 82.8%.



An optimized e15103BD with an 9.5" impeller operating at 1620 rpm results in an efficiency of 84.7%.

continued on page 9

2024 Severe Weather Preparedness Week March 3rd-9th

Statewide Tornado Drill scheduled for Wednesday, March 6 at 9:30 AM

This week is North Carolina's annual Severe Weather Preparedness Week. This week the National Weather Service and the North Carolina Department of Public Safety are teaming up to bring this severe weather safety campaign to all of North Carolina's residents. With warmer weather quickly approaching, now is the time to prepare for the severe weather season. If each North Carolina resident would take a few moments this week to learn about severe weather safety and implement a safety plan, then we would all be better off when severe thunderstorms and tornadoes inevitably strike our state and the likelihood of injury and fatalities caused by severe weather could be minimized.

Severe weather and severe weather preparedness takes many forms, so each day this week we will highlight a different preparedness topic. This week's topics will include...

| Severe Weather Preparedness Week Schedule | | |
|---|---|--|
| Day of The Week | Topics | |
| Sunday | Overview of the week | |
| Monday | Severe thunderstorms and tornadoes | |
| Tuesday | Ways to receive severe weather alerts, and information about the Statewide Tornado Drill | |
| Wednesday | Staying safe when high winds, hail, and tornadoes strike | |
| Thursday | Lightning safety | |
| Friday | Flash flood safety | |
| Saturday | Make a plan and encourage others to do the same | |

On Wednesday, March 6 at 9:30 AM, the National Weather Service in cooperation with local broadcasters will conduct a statewide tornado drill. The alarm test, which will come in the form of a Required Monthly Test, will activate the State Emergency Alert System and be carried by local radio broadcasters. Every school, business, and residence are encouraged to participate in this drill. It's really easy: at 9:30 AM on Wednesday, take a few moments to practice your severe weather safety plan, and seek shelter for a few minutes as if a tornado was headed your way. Practicing this when the weather is good will allow you to react more quickly when the weather turns bad.

Please visit the North Carolina Department of Public Safety's preparedness website readync.gov. On this web page you will find an abundance of information, and links to a free cell phone app, that will help you plan and prepare for the severe weather season.

Reprinted by permission from National Weather Service.

It's Almost Time To... Spring Forward

Some of you may be wondering when it will be time to "spring forward" and change your clocks to Daylight Savings Time. This year Daylight Savings Time will begin on Sunday, March 10, 2024 at 2:00 a.m. thus moving your clock an hour ahead (springing forward) creating an extra hour of daylight in the evening and shortening your morning light by an hour.



In the United States, Daylight Savings Time was first used in 1918, when a bill introduced the idea of a seasonal time shift but alas it only lasted seven short months before being repealed. Then during World War II, President Franklin Roosevelt re-established the idea of Daylight Savings Time but it was called "War Time" and it began in February of 1942 and lasted until the end of September 1945.

Daylight Savings Time was established in 1966 with the Uniform Time Act which regulated the yearly time change beginning the last Sunday in April and ending the last Sunday in October. This time period lasted until 2007 when the Daylight Savings Time shifted. It began on the second Sunday in March and ends on the first Sunday in November. This is the procedure we still use today.

Dozens of states continue to consider adopting either permanent Daylight Savings Time or permanent Standard Time, but in 2023 no states adopted a legislative change.

So, for now on March 10 don't forget to "SPRING FORWARD!"

Kristie Payne Executive Director

16th Annual NCPSMA Western Convention Individual Registration Form

Ridgecrest Conference Center • Black Mountain, NC May 21-23, 2024 (Exhibitors May 22,2024)

INDIVIDUAL REGISTRATION FORM FOR REGULAR OR RETIRED REGULAR MEMBRERS

TYPE OR NEATLY PRINT AS ALL INFORMATION PROVIDED WILL BE PRINTED AS SUBMITTED

| Name: | |
|----------------------|-----------------------|
| LEA / School System: | Regular Member |
| Mailing Address: | |
| Telephone Number: | Mobile D Work D Other |

Email:

Information Needed For Ridgecrest: Staying Overnight at Ridgecrest Daily Commuter

| CATEGORY | DESCRIPTION | QUANTITY | CHECK AMOUNT | DEBIT/CREDIT AMOUNT | TOTAL |
|--|---|----------|-----------------|------------------------|-------|
| Registration Fee | Before May 1 | | \$75 | \$78 | |
| | After May 1 | | \$85 | \$88 | |
| Membership Membership Runs July 1 through June 30 annually | Membership Fee | | \$20 | \$21 | |
| Meal Ticket NOTE: Buffet Luncheon included with Registration Fee on Wednesday and Thursday MUST BE PURCHASED BY MAY 1, 2024 | Includes Tuesday Dinner, Wednesday Breakfast and Dinner and Thursday Breakfast No refunds for missed meals | | \$60 | \$63 | |
| There will be no refund | GRAND | TOTAL | | | |

CONTACT INFORMATION IN CASE OF QUESTIONS (if different from above)

Contact Email:

Contact Name: _____ Contact Phone Number: _

PAYMENT INFORMATION

- To pay by check: Make checks payable to NCPSMA and mail along with your completed Registration Form to:

 NCPSMA, 224 Mulberry Street, Clyde, NC 28721
- To pay by credit/debit card: Visit our website at <u>www.ncpsma.org</u>

Direct all questions to Kristie Payne at office@ncpsma.org or call (828) 565-0115.

16th Annual NCPSMA Western Convention Multiple Registration Form

Ridgecrest Conference Center • Black Mountain, NC May 21-23, 2024 (Exhibitors May 22,2024)

MULTIPLE REGISTRATION FORM FOR REGULAR OR RETIRED REGULAR MEMBRERS

TYPE OR NEATLY PRINT AS ALL INFORMATION PROVIDED WILL BE PRINTED AS SUBMITTED

| Contact Name: LEA / School System: | Regular Member Retired Member |
|---------------------------------------|-------------------------------|
| Mailing Address: | |
| Contact Telephone Number: | Mobile 🗆 Work 🗆 Other |
| Contact Email: | |
| Information Needed For Ridgecrest: | Daily Commuter |
| | |
| Descriptions: | |

Registration Fee – Paying before May 1 or after May 1 Membership – All attendees must be a current member – Membership runs July 1 through June 30 annually Meal Ticket – Includes meals at the Ridgecrest Cafeteria for Tuesday Dinner, Wednesday Breakfast and Dinner and Thursday Breakfast. NOTE: A Buffet Luncheon is provided on Wednesday and Thursday and is included with your Registration Fee

| ATTENDEE NAME | EMAIL ** REQUIRED** | Q | REGISTRATION BEFORE MAY 1 | Q | REGISTRATION AFTER MAY 1 | Q | MEMBERSHIP | Q | MEAL TICKET | TOTAL |
|---------------|------------------------|---|------------------------------|---|-----------------------------|---|------------|---|----------------|-------|

Registration is Now Available for the Western Convention

continued from page 3

- Please be sure to inform Ridgecrest Reservationist of any special needs i.e., handicap accessible room or other special request at the time of booking.
- Check-in time is 4:00 PM and check-out time is 10:00 AM.
- If paying by check, please make payable to Ridgecrest.

Ridgecrest Behavioral Standards

Ridgecrest is a Christian Conference Center and in keeping with their mission, the following standards help to assume the comfort of all guests.

- Alcoholic beverages, illegal drugs, firearms, and fireworks are not permitted.
- 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.
- As a courtesy to all guests, please observe noise curfew from 11:30 pm and 6:30 am.
- Immodest clothing, distasteful or offensive monograms/designs, bare feet in public areas, or any extreme style 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.
- 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.

Please encourage your LEA to send in registrations as early as possible. If paying by a check through your school system and know the check could take some time before arriving in the mail please email your registration

| | Y | | Υ | | Y | | Y | | |
|--|---|------|---|-------------|---|------|---|------|--|
| | | \$75 | | \$85 | | \$20 | | \$60 | |
| | | \$75 | | \$85 | | \$20 | | \$60 | |
| | | \$75 | | \$85 | | \$20 | | \$60 | |
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| | | \$75 | | \$85 | | \$20 | | \$60 | |
| | | \$75 | | \$85 | | \$20 | | \$60 | |
| | | \$75 | | \$85 | | \$20 | | \$60 | |
| There will be no refunds after May 1, 2024 | | | | GRAND TOTAL | | | | | |

PAYMENT INFORMATION

- To pay by check: Make checks payable to NCPSMA and mail along with your completed Registration Form to:
 - NCPSMA, 224 Mulberry Street, Clyde, NC 28721
- To pay by credit/debit card: Visit our website at <u>www.ncpsma.org</u>

** MUST BE PURCHASED BY MAY 1, 2024**

• Additional fees will be charged if paying by credit/debit card.

Direct all questions to Kristie Payne at office@ncpsma.org or call (828) 565-0115.

form to Kristie Payne at office@ncpsma.org so that she will know in advance who will be attending and can be prepared for them.

QUESTIONS AND/OR CONCERNS: Please contact Kristie Payne, Executive Director at office@ncpsma.org or (828) 565-0115.

If you experience any problems during the convention, please come to the NCPSMA registration desk to speak to either NCPSMA Executive Director Kristie Payne, NCPSMA State President Mark Letchworth, or NCPSMA State Vice-President Chris Campbell. We will, to the best of our ability, work with you to resolve any problem. If you have any questions or comments, please contact Kristie Payne, NCPSMA Executive Director, at (828) 565-0115 or e-mail at office@ncpsma.org.

16th Annual Western Convention Agenda

Johnson Springs Convention Center | Black Mountain, NC May 21-23, 2024

Tuesday, May 21, 2024

| 9:00 am - 12:00 pm | Registration |
|---------------------|---|
| 10:00 am - 11:00 am | Advisory Council Meeting |
| 11:00 am – 7:00 pm | The Mobile Innovation Showroom (sponsored by Door Security Solutions |
| | & DSS of the Carolinas) |
| | - Session 1 |
| 12:00 pm – 1:00 pm | Lunch on Your Own |
| 1:00 pm – 2:00 pm | Variable Refrigerant Flow (VRF): A Benefit For Your School |
| 1:00 pm – 3:00 pm | Dual Water (2 CEUs) |
| | How Do We Know Our Sports Lighting Systems are Safe? |
| | NC Locksmith Renewal (2 CEUs) |
| | Painting – Basics of Paint – What you need to know, what can go wrong and why |
| | Pesticide Licensing Recertification (2 CEUs) |
| 1:00 pm – 5:00 pm | Registration |
| 2:00 pm – 3:00 pm | TBA-1 |
| 3:00 pm – 4:00 pm | 30 Tips for Hydronic Systems |
| 3:00 pm – 5:00 pm | Dual Water (2 CEUs) |
| | Installation and Maintenance of Metal Roof Assemblies |
| | NC Locksmith Renewal (2 CEUs) |
| | Pesticide Licensing Recertification (2 CEUs) |
| | School Fire Inspections: What You Need to Know! |
| 4:00 pm – 5:00 pm | Boiler Installation Pitfalls |
| 5:30 pm – 6:30 pm | Dinner in Cafeteria – Previously Purchased Meal Ticket Required |

Wednesday, May 22, 2024

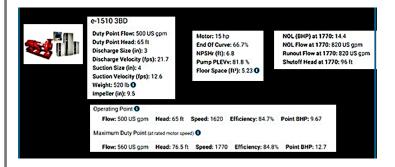
| in country, may | |
|---------------------|--|
| 7:15 am – 8:15 am | Breakfast in the Cafeteria – Previously Purchased Meal Ticket Required |
| 7:30 am – 12:00 pm | Registration |
| 8:00 am - 9:00 am | Coffee Break and Refreshments |
| 8:00 am - 10:00 am | Dual Water (2 CEUs) |
| | Electrical (2 CEUs) |
| | NC Locksmith Renewal (2 CEUs) |
| | Small Engine and Power Equipment |
| 8:00 am – 7:00 pm | The Mobile Innovation Showroom (sponsored by Door Security |
| | Solutions & DSS of the Carolinas) |
| | – Session 2 |
| 8:30 am - 9:00 am | Exhibitor Display Selection |
| 9:00 am – 10:00 am | Exhibitor Display Setup |
| 10:00 am - 11:00 am | Opening Session and Vendor Recognition |
| 11:00 am – 12:00 pm | Attendee Visitation with Exhibitors – Session 1 |
| 11:00 am – 7:00 pm | Locksmith Mobile Classroom |
| 12:00 pm – 1:00 pm | Traditional Southern Buffet Luncheon for Attendees and Exhibitors |
| 1:00 pm – 2:30 pm | Attendee Visitation with Exhibitors – Session 2 |
| 1:00 pm – 4:00 pm | Registration |
| 2:30 pm – 3:30 pm | Spectator Seating Code Compliance & Preventative Maintenance |
| 2:30 pm – 4:30 pm | Blueprint Reading |
| | Electrical (2 CEUs) |
| | Exhibitor Display Breakdown |
| | Kitchen Equipment |
| | NC Locksmith Renewal (2 CEUs) |
| | Plumbing – Flush Valve/Faucet Repairs, Wall Hydrant Repairs and |
| | Backflow Prevention Repair Parts |
| 3:30 pm – 4:30 pm | Care, Maintenance and Fire Code Compliance for Your Stage Curtains |
| 4:45 pm – 6:45 pm | Cornhole Tournament |
| 5:30 pm – 6:30 pm | Dinner in Cafeteria – Previously Purchased Meal Ticket Required |

Thursday, May 23, 2024

| 7:15 am – 8:15 am | Breakfast in the Cafeteria – Previously Purchased Meal Ticket Required |
|---------------------|--|
| 7:30 am – 10:30 am | Coffee Break |
| 7:30 am – 12:00 pm | Registration |
| 8:00 am - 10:00 am | Director / Supervisor Round Table Discussion |
| | Electrical (2 CEUs) |
| | Fire Alarms |
| | Pneumatic to DDC |
| | Ticks, Birds & Bats and Equipment Calibration (2 CEUs) – Session 1 |
| | You've Got a New Playground Now What? |
| 10:00 am - 11:00 am | Ticks, Birds & Bats and Equipment Calibration (2 CEUs) – Session 2 |
| 10:00 am – 12:00 pm | Asbestos and Lead-Based Paint Reimbursement Program |
| | BEST Interchangeable Core Combinating Short Course (2 CEUs) |
| | Electrical (2 CEUs) |
| Generac Generators | |
| New Refrigerant | |
| 11:00 am – 12:00 pm | TBA-2 |
| 12:15 pm – 1:30 pm | Tex-Mex Fiesta Buffet Luncheon for Attendees |
| 1:30 pm – 2:30 pm | Closing Session |
| | Asbestos and Lead-Based Paint Reimbursement Program |
| | Best Interchangeable Core Combinating Short Course – 2 CEUs |
| | Generac Generators |
| | Pesticide Structural – 2 CEUs |
| | Electrical – 2 CEUs |
| 12:15 pm – 1:30 pm | Tex-Mex Fiesta Buffet Luncheon for Attendees |
| 1:30 pm – 2:30 pm | Closing Session |
| | |

Pump Optimization with Large Impellers Part One: Why Bigger Really is Better

continued from page 6



Notable Advantages

There are other advantages to specifying pumps with large-size impellers besides efficiency.

Faster delivery times. Trimming impellers is a timeconsuming process that requires specialized labor, which is increasingly hard to find. Specifying pumps with full-size impellers is a great way to keep jobs on a fast track. IMP is even in the process of building a ready stock of 33 e-1510 and 16 e-80 models with optimally sized impellers.

Extra capacity. A variable speed pump with a large impeller gives the owner extra capacity should there be future expansion, or a system pressure drop that is greater than expected.

No extra cost. Of course, the most outstanding advantage is the lifecycle efficiency engineers can deliver to their clients—at no extra charge. This type of optimized pump selection can improve pump efficiency by 1/4 to 2%, which can significantly reduce the total lifecycle cost of the pump.



MARCH 2024 • THE MAINTENANCE BEACON

Save The Date NCPSMA District Three Annual Golf Tournament WEDGEWOOD PUBLIC GOLF COURSE In Wilson, NC



Friday, October 25, 2024

Shotgun Start 1PM

Rain Date Saturday, November 2, 2024

continued from page 1

NCPSMA District Three Annual Golf Tournament Superball Tournament

Friday, October 25, 2024 • RAIN DATE Saturday, November 2, 2024 Wedgewood Golf Course 3201 Old Stantonsburg Road, Wilson, NC

DUE TO WEDGEWOOD TOURNAMENT CHANGES

Entry Fee: \$250.00 Per Team

(THE FEE INCLUDES: GREEN FEE, CART, DRIVING RANGE BALLS, LUNCH)

ALL CHECKS: PAYABLE TO: NCPSMA DISTRICT III

REGISTRATION FORM and PAYMENT FOR HOLE SPONSORSHIP AND TEAMS ARE

DUE BY THURSDAY, OCTOBER 17, 2024

!!!!!!!!!!ATTENTION!!!!!!!!!!

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

Prizes Include: 1st, 2nd and 3rd Place Closest To Pin – 5th and 12th Hole Hole Sponsorship: \$100.00 per hole Mulligan's: \$5.00 Each (MAX) (2) Longest Drive – 14th Hole

COMPLETE:

Team Name:_____ Team Players Names: Address:_____ School Unit or Company:_____ LUNCH AT NOON Shotgun start at 1:00 PM

RETURN TO: NCPSMA GOLF TOURNAMENT Attention: Sue Farmer 8036 Harrell Store Road, Kenly, NC 27542 Phone – 252-236-2801 Email: sue.farmer89@gmail.com

Meet Dr. Jennifer Hefner

of having such a strong professional organization at the local, state and district levels. She said, "I have been reminded that the people in the background often feel left out and unappreciated. Every time I am at a meeting or event, I am reminded that it takes a "village" to operate a school system and these "behind the scenes" people are the very ones that keep my school system running. The professionalism and competence demonstrated within the group is just wonderful."



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Dr. Hefner appreciated the way her Director of Maintenance and Facilities, Chris Campbell, has become involved in the organization. He has had an opportunity to network with other maintenance directors and employees and that is always a positive thing for any organization. He is able to problem solve and demonstrate best practices and that always makes for a stronger department in every school system.

Dr. Hefner was born in Catawba County but has lived in Alexander County since she was two years old. She is number five in a succession of seven children and says her mother has ALWAYS been her best cheerleader!!! When not at work you can find her working in her garden, hosting events in her home where she can be found cooking another one of her favorite pastimes, decorating or traveling. She might be found spending time with her cats. One day she took in a stray and as a result now she has four! Last summer while on one of her traveling adventures that led her to the Jersey Shore she learned to paddle board! In the future, when she has more time she would like to focus more on her physical health and travel more.

By Kristie Payne NCPSMA Executive Director





PRESS RELEASE

Sponsors Needed to Help Provide NC Supper

continued from page 4

"By increasing the number of community sponsors, we can provide meals to more food-insecure children across all of North Carolina, from urban centers to rural communities," Truitt said. "Participation in Summer Nutrition Programs provides children with critical nutrients for continued growth, development and learning in addition to key educational enrichment while school is out."

The Summer Food Service Program and Seamless Summer Option are extensions of the National School Lunch Program. Both were established by USDA to ensure economically disadvantaged children continue to receive nutritious meals when school is out of session. The core purpose of these programs is to bridge the gap of food insecurity for children eligible for free or reduced-priced school meals. Acceptable sites may be a location where meals are served in a supervised setting and open to all children in the community or one that serves specific children at a summer camp. Summer Nutrition Programs are typically located in economically distressed areas to serve the most food-insecure, vulnerable students. Meal sites may be located at schools, public housing centers, playgrounds, camps, parks, medical centers, faith-based facilities, libraries and other locations. Meals served at all sites must be provided at no charge to eligible children regardless of race, color, national origin, sex (including gender identity and sexual orientation), age or disability. Registration and ID are not required.

To learn more about N.C. Summer Nutrition Programs and how your organization may become involved in providing summer meals to children in your community, please visit the NCDPI, Summer Nutrition Program website or contact the NCDPI, Summer Nutrition Program team.

In accordance with federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, this institution is prohibited from discriminating on the basis of race, color, national origin, sex (including gender identity and sexual orientation), disability, age, or reprisal or retaliation for prior civil rights activity.

Program information may be made available in languages other than English. Persons with disabilities who require alternative means of communication to obtain program information (e.g., Braille, large print, audiotape, American Sign Language), should contact the responsible state or local agency that administers the program or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339.

To file a program discrimination complaint, a Complainant should complete a Form AD-3027, USDA Program Discrimination Complaint Form which can be obtained online, from any USDA office, by calling (866) 632-9992, or by writing a letter addressed to USDA. The letter must contain the complainant's name, address, telephone number, and a written description of the alleged discriminatory action in sufficient detail to inform the Assistant Secretary for Civil Rights (ASCR) about the nature and date of an alleged civil rights violation. The completed AD-3027 form or letter must be submitted to USDA by:

- mail: U.S. Department of Agriculture Office of the Assistant Secretary for Civil Rights 1400 Independence Avenue, SW Washington, D.C. 20250-9410
- 2. (833) 256-1665 or (202) 690-7442; or
- 3. email: program.intake@usda.gov.



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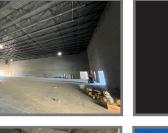


Wilkes County Schools Construction Projects

Wilkes Central High School New Gym









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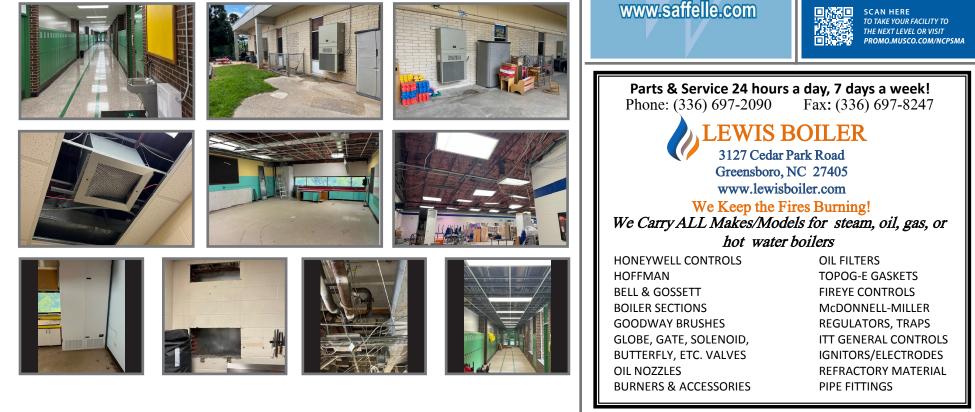




ESSER HVAC Projects Our ESSER projects are coming along. Currently we have completed projects at the following schools. Started in 2022, completed in 2023 Mountain View Mulberry **Millers** Creek Started in 2023, completed in 2023 CC Wright Wilkesboro Mt. Pleasant Started in 2023 scheduled to be complete in 2024 Wilkes Central High **Ronda Clingman CB** Eller West High East High North High N. Wilkesboro Mo Falls

This has allowed these schools to upgrade the heating, air conditioning and ventilation. We have three other elementary schools we are seeking funding for to complete all our older school buildings. It's hard to believe that our middle schools will be due for HVAC replacements in the next couple years. Those units were installed when the school opened in 2002.

Bergie Speaks Director of Maintenance and Construction Wilkes County Schools







Patrick Morningstar, Owner Josh Walton, Sales

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