

Cody Chandler recently completed the one-week advanced CDL program through New Mexico Junior College's Training and Outreach Department. He received his CDL the weekend following his training and is currently working for Bar Over Hat, a water hauling company in North Dakota.

Jobless New Mexican lands \$120,000 job after completing NMJC program

CDL program can be life changer

FOR THE NEWS-SUN
Living in eastern New Mexico and West
Texas hasn't always been easy for Cody Chandler, who took odd jobs here and there to support his wife and two young children.

Chandler and his wife were forced to live off their savings and just before the money ran out Chandler made one step that would change his fortune for the better.

"I was just about in tears," Chandler said. "I This allowed him to drive trucks with a was raised different — that a man ain't much licensed CDL driver. When his father was

if he can't support his family. I had to do some recovering from surgery. Chandler had been able to delive the support his family. able to drive the concrete truck normally operated by his father, with his father as the licensed driver.

After a discussion of his options, it was port his wife and two young children.

Just when he thought he had found a great, long-term position working as a ranch his fortune for the better.

He decided to visit his local New Mexico and for a land and cattle company, the rug was pulled from under him. He was let go in the fall of 2014.

He tried to get small jobs wherever he could in his area but soon found himself desperate for a chance to bring in income for his young family.

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SEE CDL, Page 20

Clean Power Plan: Lots of fuss, but little benefit

ne year ago. Gina McCarthy, Environmental Protection Agency (EPA)
Administrator, announced the controversial centerpiece of the Obama
Administration's climate change legacy: the
Clean Power Plan (CPP) — slated for finalization
this summer.
Unions have presented.

this summer.

Unions have protested against it. The North
American Electric Reliability Corporation
believes it risks the reliability of the grid. States,
encouraged by Majority Leader Senator Mitch
McConnell, are boycotting it, Yet, the EPA is
pushing ahead, touting the plan's built in flexbility for individual states in devising a compliance plan — uniquely suited to each specific
state.

If states, as McConnell advo-

If states, as McConnell advo-cates, refuse to comply, the EPA will impose a Federal implementation Plan.

While no one knows what the final plan will be, we can be sure that, at the least, it a tims to severely reduce coal-fueled power generation and dra-matically lincrease the imple-mentation of renewables such as wind and solar. Industry experts expect the CPP will closure of hundreds of coal-fu-ciosure of hundreds of coal-fu-cied power plants — and that, atone, without factoring in the higher-cost renewables, will raise costs to ratepayers. raise costs to ratepayers



Noon

raise costs to rateopayers.

The anti-fossil fuel movement would like us to believe we are just replacing one power source with another. The problem, however, is far bigger — as the real-world experience in New Mexico makes clear.

In New Mexico's Four Corners region, negotia.

In New Mexico's Four Corners region, negotia-tions regarding bringing the San Juan Generat-ing Station (SJGS) into compliance with Region-al Visibility Rules under the Clean Air Act have been underway for more than a decade with the bulk of the shenanigans taking place during the past five years.

There have been State Implementation Plans, Federal Implementation Plans, lawsuits, back room deals, and hearings and protests. Yet, there is still no definitive solution. Read a full implie here: http://responsibleneryyblogsnot.

timeline here: http://responsiblenergy.blogspot com/2015/05/backgrounder-on-closure-of-san-

In January, the New Mexico Public Regulatory Commission (PRC) held hearings on the plan

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OPEC keeps oil target on hold, predicts low prices

VIENNA (AP) — OPEC decided to keep its reporters.

oil output target on hold Friday and predicted prices would remain low for the foreseeable stuture — good news for both for oil-hungtry harden farded above \$15.6 a harden in 2014. While the Organization of the Petroleum as numm

Accounting & Consulting Group....

of loutput target on hold Friday and predicted prices would remain low for the foreseeable prices would remain low for the foreseeable prices would remain low for the foreseeable future — good news for both for oil-hungry international industries and consumers at the gas pump.

The cartel said its output level would remain at 30 million barrels a day despite the fact that prices were still low compared with a year ago. It left it to member states to restrain any overproduction, an acknowledgment of the cartel's inability to enforce its own limits as truggles to control world supply and prices.

With non-OPEC oil producing countries seady to ramp up production if prices go much above present levels, OPEC's secretary general, acknowledged that, as in the gradient prices were still low to remain the control world supply and prices.

With non-OPEC oil producing countries active that is find the control world supply and prices. With non-OPEC oil producing countries ready to ramp up production if prices go much above present levels, OPEC's secretary general, acknowledged that, as in the past, countries had only often members will compete against non OPEC of producers, and in particular shale p



Lea County oilfield workers are shown on a work

here are very few isotopes in nature which have the ability to sustain a nuclear chain reaction. The most abundant one here on earth is 1235 which is found in trace quantities of natural uranium. Natural urani-

The number used in the isotope symbol here is the total number of both neutrons and protons in the nucleus of the atom with the letter U representing uranium. Both U235 and U238 have the same number

of protons because they are the same element but having different numbers of neutrons makes them different isotopes. Both isotopes have 92 protons but U236 has 143 neutrons in its nucleus and U238 has 146. The isotope U238 is not able to sustain a nuclear chain reaction on its own due to the fact that when it absorbs a neutron in a nuclear reactor, it does not split but simply becomes a different radioactive isotope U239. This U239 will eventually decay into an isotope of the element neptunium

if it is sufficiently pure although getting pure Pu239 is a very difficult task for many

A fissile isotope such as U235 or Pu239 is able to split its nucleus in two when it absorbs a low energy neutron. Not only that but it is also able to split out some additional free neutrons when this happens.

These additional free neutrons are emitted into the rest of the material surrounding the reaction. If there is sufficient material surrounding the reaction containing more fissile isotopes such as U235, then this process can continue so long as there remains adequate unused fissile isotopes to enable this process to go on.

This may sound simple but there are a number of factors which can easily stop



um is almost entirely composed of U238.

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Noon

almost everyone agreed on.

almost everyone agreed on.

In April, a bearing examiner advised the PRC to reject the plan unless changes were made. Some of his concerns, according to the Associated Press report, were in part because Public Utility Company of New Mexico (PNM) didn't have a "contract to provide coal for the plant beyond 2017. The coal mine adjacent is SJGs is the subject of negotiations between current owner BHP Billiton and several proposed new owners.

owners.

On May 5, a deal was struck. Westmoreland
Coal Company would purchase the mine and
take ever operations, resulting in a \$300 million
savings over the next six years for PNM and
its customers. However, the PRC must approve
this deal before the sale goes through, On May
27, to give PNM more time to finalize an ownership restructuring agreement, the deadline was
extended to July 1.

This New Mexico stery is about just one never

extended to July 1. This New Mexico story is about just one power plant in one state, trying to meet just one EPA regulation dealing with regional visibility even though improvements will not be detectible to the human eye. The American Lung Association's 2015 State of the Air report just ranked

Farmington number 1 for cleanest metropolitan areas in the country for 24-hour particle pollution and number 2 for cleanest metropolitan areas in the country for annual particle pollution.

Under the CPP, expect similar scenarios in every state, over every coal-fueled power plant — not with just one regulation, but with a mas-sive plan designed to transform the entire ener-

The CPP, which is not yet final, is supposed to be implemented in less than five years.

be implemented in less than the years.

This story is a taste of what is to come; years
of legal wrangling, cost increases for consum
ers, loss of good paying jobs—for reductions in
CO2 emissions that will make virtually no temperature difference on a global scale.

The author of Energy Freedom. Marita Noon, serves as the executive director for Energy Makes America Great Inc. and the companion educational organization, the Citizens' Alliance for Responsible Energy (CARE). She houst a welkly radio program America's Voice for Energy, which expends on the content of her weekly column.

CDL

ideal candidate for the one-week training.

ideal candidate for the one-week training.

"Cody was the perfect candidate for the program ...," said NAMC TAACCCT Grant Director Jai Oyler. "He had the necessary experience to qualify for the program and was very determined to make the most of this opportunity. This program, along with our WIA partnership, is allowing us to help individuals to change their circumstances and in turn change their dividuals to the training and journeyed from Elida, N.M., staying for one week in a NMC dorm during the training.

"Chandider's positive attitude and ability to

"Chandler's positive attitude and ability to make friends quickly are great personal qualities," said NMoC Transportation Director Luisa Iniz. "He would encourage and cheer for the success of his classmates and was very much a team playor. These are all qualities that employee ras are scarching for in their employees that will increase the likelihood of Cody's success."
Chandler's CDL instructor, Alejandro Ojeda, And similar things to say about Chandler.
"Cody arrived each morning with the desire to make the most of the training each day to ensure that he could better provide for his family," said Ojeda.

Oleda.

Chandler concluded the Monday Friday training and completed the state CDL exam that weekend. He passed the CDL exam and two short weeks later, he received a job offer with Bar Over Hat, a water hauling business in North Dakota. Cody went from being down and out broke to making in excess of \$120,000 a year.

"Honestly, I never felt better in my life," Chandler said. "I'm getting paid great money.

It's amazing and it's all thanks to the staff at NMJC's Training and Outreach and the New Mexico Workforce Connection."

AMENICO WORKGOTO CONNECTION."

Chandler also convinced his father to apply for a position with him and they are now working for the same company.

"It was too good of an offer for a 20-year veteran truck driver to pass up." said Chandler.

"And I got this job fresh out of the NMJC CDL program."

Chandler is grateful that he can now support his family. He hopes to work several years in his current job to save to money to invest and eventually come back to the area to work.

The Eastern Area Workforce Development Board (EAWDB) and its service provider, Director John Hemphill, oversee the New Mexico Workforce Connection offices.

"We are cestatic that Cody has done so well," said Hemphill, "When you have a story like this it reminds us all why we are in the role we are in which is to improve the skills of the workforce, assist individuals with improving their cmployability and helping people get back to work."

NMJC'S Vice President for Training and Out-

back to work."

NMJC'S Vice President for Training and Outreach Robert Rhodes said the one-week CDL program was designed to meet industry needs and the needs of people like Chandler.

"Our goal is to provide training programs that provide qualified industry professionals and to ensure our students are getting the best positions possible post training," said Rhodes.

For more information about NMIC'S anouncek

For more information about NMJC's one-week CDL training, please contact 575-492-4716 or email reallagher@nmjc.edu.



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Hayes from PAGE 19

the reaction altogether. These include, nuclear poisons, hydrogenated material, fuel content, bad geometry, poor reflection and other less relication and other less important factors such as tem-perature and fuel type. Each and every one of these has to be just right for a sustained nuclear chain reaction to occur and continue.

and continue.
Poisons in a nuclear reactor
can be added intentionally,
these are materials that absorb
a neutron and do nothing else.
Poisons also grow into the
fuel from the flission products
left over from previous fission
reactions. When a fission reaction occurs, this results in at
least two new but smaller isotopes (which are typically both
readinactive and absorbers of
neutrons).

Standar neutrons down is an

neutrons).

Slowing neutrons down is an important characteristic of a system for it to become critical with low U235 content. The probability of U236 or Pu239 to probability of UZO or PuZO3 to absorb a neutron and fission is fairly small if the neutron is moving very fast. When neu-trons are created by fissioning of UZO3 or PuZO3, they are spit out incredibly fast and so not highly likely to be absorbed by another fissile atom unless they are slowed down.

they are slowed down.

Doe way of slowing them
down effectively is by knock
ing them into lots of hydrogen
atoms. The nucleus of the
hydrogen atom is a proton
which has almost the exact
same mass as a neutron and
so bouncing them together
is like the cue ball on a pool
table bouncing off another ball
causing the cue ball to move
slower.

With one bounce the tream-

With one bounce, the incomwith one bounce, the incoming cue bail can easily lose half its energy. By placing a lot of well chosen material such as water (H2O) near your nuclear fuel, you place a lot of hydrogen there to slow down the neutrons so they can later be absorbed by another fissile atom and continue the chain reaction.

aton and continue the chain reaction.

By placing additional water (or non poison material) outside and surrounding the nuclear fuel, you can reflect many of the neutrons ack into the system. Those neutrons which either were created traveling towards the outside of the critical region of the fuel or bounced around inside of it until they by chance would oxit, can then be partially reflected back into the system if appropriate material were placed outside as a reflector in this sense. Finally, geometry is very

as a reflector in this sense.

Finally, geometry is very
important to attain a chain
reaction without having an
renormous amount of nuclear
fuel present such as 1235 and
Pu239. If the fuel were in the
shape of a long thin straight
line, this would make it yet
difficult to attain criticality.

difficult to attain criticality. If an atom of U230 were to fission in this thin line, it would be extremely unlikely for the neutrons created to be shot out along that same line because they come out randomly in any direction. The preferred shape for nuclear criticality is a sphere because neutrons created near the center have to be spit out in the direction of more fuel because they are surrounded by it.

These created near the celor

surrounded by it.
Those created near the edge
of the sphere have an almost
50% chance of being created
traveling in the direction of
more fuel (toward the center)
with the rest directed outside
the sphere. Simply put, the
neutrons have to find another
fissile atom to continue the chain reaction.

Robert Hayes of Hobbs is a licen professional engineer in nuclear engi-neering in New Mexico, a certified bealth physicist by the American Board of Health Physics and bas a Ph.D. in nuclear engineering and a masters degree in physics.

Vision.

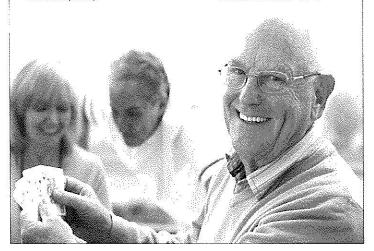


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