SECTION R

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Thursday, April 14, 1983, Edenton, North Carolina, 27932

# Bracken's System On Energy Efficiency To Understand The National Guard And Reserve

Energy's

ground

temperatures

temperatures.

and

pine trees as you approach it on a gravel road through the woods. The toys in the yard and the attractive appearance of the two story frame house make the 1600 square foot residence look like the all american home. Beneath its blue exterior lies a well insulated house with an unusual heating and cooling system, Living in Advance, North Carolina, about 15 miles southwest of Winston-Salem, the Brackens wanted a heating system which would both heat and cool their home economically.

Bracken realized that air source heat pumps lose efficiency when the outdoor temperatures reach extremes. If outdoor temperatures fall much below 35 degrees F., the air source heat pump has to rely on electrical resistant heat coils which make it operate like an electrical furnace. In the summer, the air source heat pump must operate like a conventional air conditioner which means it must work harder as the weather gets hotter.

To make his heat pump system more efficient than an air source one, Bracken decided to use water based heat pumps. He selected two Carrier heat pumps with a combined capacity of 40,000 Btus and plumbed them in parallel; one in a closet downstairs and the other in an upstairs closet immediately overhead. The heat pumps used well water with an average temperature of 57 degrees F. as their source of hot or cold temperatures. Unfortunately, the heat pumps required as much as eight to ten gallons of water per minute at peak periods, an averaged from 12 to 15 thousand gallons per month

In times of drought a water source heat pump could be a liability, especially if you were not returning the water to a well.

Bracken decided to close the loop on his water use. Instead of a continuous supply of well water Bracken devisiron soil pipe.

Jerry Bracken's house for a heat exchanger, few if ed less electricity to heat his peaks out at you through the any studies had been done us- house than an air source heat ing a system with somebody pump or an electric furnace actually living in the house as would have used. In fact. an average family would year Bracken figured his system around. Bracken received would heat more economical-\$1,580 from the Department of ly than oil or gas furnaces or Appropriate practically anything short of Technology-Small Grants a person who used wood and Program to develop a cut it himself on his own land. demonstration project using a Since one can't air condition ground loop energy exwith wood, Bracken figures changer. The project monitorhis system is the best one to ing the effectiveness of the have on a year around basis. Using a separate meter, system. Bracken installed 23 thermocouples at strategic Bracken kept track of the ex-

points in the system for act electrical consumption his monitoring purposes. He heating system used during rented a recording device the winter of 1981-82. which kept a record of water, For the months from Oc-

soil and air temperatures tober 1981 through March 1982 through the first heating his system used 3809 kilowatt season. Not surprisingly, the hours (kwh) electricity worth about \$230 at \$.06 per kwh. water proved Many similar sized homes use substantially warmer in that much in a month. winter and cooler in summer If you would like more in-

than the outside air formation on Bracken's system and its performance, The moderating influence you write him at Rt. 2, Box of the earth's stored solar 188, Advance, N.C. 27006.

energy meant that the water The Earth Studies Program source heat pump did not at Appalachian State Univerhave to work as hard extrac- sity produces the ReUsable ting heat on cold days or cold News column with funding on warm days as an air from the Department of

Every employer in this emergency requiring rapid country - large or small, and substantial expansion of public or private - has a stake the active forces. in a strong national defense and a vital role to play in en-

suring its continuation. Understanding the role of the National Guard and Reserve and the vital missions they perform in maintaining a strong defense posture is important for all employers as citizens. There are many who make a direct contribution to the effort those who have members of the Guard and Reserve working for them.

Employers can provide positive support for their citizen/military employees in many ways:

employers.

Sign a Statement of Support for the Guard and Reserve and display it proud- ment of Support for the Guard ly and prominently for all to

Formalize personal policies concerning participation in the Guard or Reserve. Include provisions for military leaves of absence exclusive of earned vacation time and job opportunities and benefits equal to those for employees who do not more than what is required by said, I believe they would be participate.

Encourage employee par- ingness of employers to ticipation in Guard and cooperate fully and to support Reserve programs, recogniz- the total force policy. ing that their dedication, people in our area who have training and commitment will enhance their performance

> **Recognize** in internal communications the accomplishments of Guard and Reserve employees for their patriotic part-time activities. Seek immediate resolution of job/military training

Without the support and cooperation of their civilian employers, members of the Guard and Reserve often encounter problems in their efforts to perform a patriotic duty. With support, our national defense will remain strong and ready.

Since 1973, this nation has met its military and personnel requirements without the aid of a draft. The National **Guard and Reserve Forces** have been assigned increasingly important roles in allvolunteer total force and are the primary source for augmentation in any

# Helms Reports On Jeane Kirkpatrick

WASHINGTON-Jeane Kirkpatrick is one of the finest-if not the finest-SECTION B people in public life today. She is, of course, the U.S. Ambassador to the United Nations. She is brilliant, perceptive and courageous. And she doesn't hesitate to speak her mind about the United Nations.

I sense a growing feeling across the country that the Because of this increased United States should get out of reliance, the training and the United Nations. It is a readiness of the Guard and farce. It is also a haven for Reserve Forces must be spies who come into the maintained at the highest United States in droves possible level. They are being pretending to be "diplomats" provided with more modern representing their respective equipment, aircraft, vehicles countries in the UN. The FBI and armanent, and steps are has been quite candid about being taken to make citizen/military service both

Yet, year after year, Conattractive and maintaining a gress continues to apstrong Guard and Reserve propriate enormous sums of depends upon this nation's the American taxpayers' money to help support the

The National Committee United Nations. This fiscal for Employer Support of the year, for example, the United Guard and Reserve States will furnish a total of (NCESGR) asks all \$763,106,000 to the United employers to sign a State- Nations.

### \*\*\*\*\*

and Reserve. By doing so, KIRKPATRICK-In early they show their support by en-March. Ambassador suring the same job and Kirkpatrick testified before a career opportunities to subcommittee of the Senate Guardsmen/Reservists as to Appropriations Committee. other employees and by gran-Her testimony was virtually ting leaves of absence for ignored by the major news military training without media. If the taxpayers of sacrifice of vacation time. America had any way of lear-While these actions are no ning what Mrs. Kirkpatrick law, signing indicates the willup in arms-demanding that the United States stop financing such a large percentage of the UN's operating costs.

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LR, Family room, kitchen, 2 baths,

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Among other things Am- portant issues discloses that bassador Kirpatrick told the the West Europeans were the Senate subcommittee that the only bloc of nations voting UN "is not at all, she said, an with the United States more institution that reflects or than 50 per cent of the time. represents the world in the Latin American nations way representatives bodies voted with the U.S. 38 per cent of the time. Asian nations onusually do.

She raised an important ly 26 per cent. African nations

FLAWED-Mrs

rented."

point of view.

WHERE-Occasionally I

of "diplomats" and their staffs were to have to observe how a communist country operates, and how the Rus-

the diplomats would be And almost always, the UN clamoring to come back to the votes are against the interests United States where there is and wishes of the United freedom to be enjoyed, and an States. In short, the Uited na- abundance of good food and tions follows the communist comfortable homes

BEHAVIOR-The voting are so dead-set upon voting behavior at the United Na- with the communists, they tions is indeed interesting- ought to learn, first hand, and depressing from the U.S. what communism is

A study of the 200 most im-

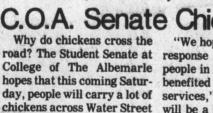
question: Can the UN be 23 per cent. The East Euromade an institution which peans 8 per cent. Then there helps resolve differences are the non-aligned nations rather than exacerbate them? which voted with the United \*\*\*\*\* States 22 per cent of the time. Kirkpatrick noted that most Americans have "a fun- am asked where I would most damentally flawed mental like to see the United Nations picture of how issues are have its headquarters, if not decided at the United Na- in the U.S. I am quite sincere tions." Issues are not decided when I say that it would be on merit, she said. The UN fine to headquarter the UN in epresentatives vote together Moscow. in blocs, regardless of the

I believe it would have a issue at hand. As she put it, salutary effect if the hundreds "Favors are extended, obligations accumulated and discharged, arms are twisted, horses traded and occasionally, or so one hears, a vote may sian people have to live. be bought-or at least It wouldn't be long before

line, time after time.

If these foreign diplomats

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to Waterfront Park. The Senate is sponsoring a Chicken Fry from 11 A.M. until P.M. Saturday at Historic Park on the Corner of Water St. Anne's Bake And and Ehringhaus streets in Rummage Sale Elizabeth City. Plates are \$3.50 each.

Richard Banks, senate **Bake and Rummage Sale this** president, said the proceeds from the fry will be donated by the student governing body o the COA Foundation. The foundation kicked off its first annual fund drive on Good 2:00 P.M. Friday with a \$30,000 goal.

Lighthouse Movies

The Lighthouse in Elizabeth City this Friday will host two movies "Don't Call Me ed a system which circulates God/I'll Call You" and for the about 75 gallons of water kids "Miriam and Moses" through his septic tank drain both start at 7:30 P.M. You field in a 400 foot loop of cast won't want to miss these! Saturday, April 16, New Life

services," Banks said. "This on-the-job. will be a fine opportunity to show support for our community college, and to enjoy a great meal, too."

conflicts. St. Anne's Catholic Youth Organization will be having a Saturday at the Church. In case of rain it will be held in the Church basement. The sale is from 9:00 A.M. until The money is to help cover

source heat pump would Energy, and Administration have. As a result, Bracken us- by the N.C. Energy Division. C.O.A. Senate Chicken Fry "We hope to have a strong response locally and from benefited from the college's

vou

To Meet

Although N.C. State Univer- Band will be ministering in Temple A.M.E. Zion Church, sity had done a study on using song. Starts at 7:30 P.M. Edenton. Rev. Thomas septic fields as the medium Don't miss this blessing.

McPherson is the pastor.

The Edenton Chowan Chris-

tian Fellowship Union will

meet April 24, at Canaan

expenses for a 3 day religious

convention coming up in May.

Christian Fellowship

Come see what we have for



# TheNew

Two of the nicest things that have happened to savers in years have been the new IRA rules and the new Money Market Accounts. Now NCNB has put together a plan that

 lets you get the best of both ideas. **1.New Money** Market Liquidity. Investment IRA. Deposit \$2500 or more in an NCNB Money Market Investment

IRA, earn money market rates, along with the flexibility of moving your money into another investment any time you like

2.IRATax Benefits. As with other IRA plans, you can deduct your contributions each year and you pay no tax on interest earned until you start withdrawing money.

And here's the way it works: now you can get Money Market Rates with an IRA. But, even more importantly,

It's our new Money Market

unlike the conventional IRA plans, you're not tying up your money. Later on, if other IRA investment plans become more attractive, you

can move your money with no interest penalty. Now, even though the maximum IRA contribution per year is \$2000, you can start one of these accounts with NCNB for \$2500, with (1) a lump sum distribution from your pension plan if you change jobs, (2) a combination of your 82-83 contributions, if you deposit before April 15, 1983, or (3) a maturing IRA certificate.

There might be a few other places to find this kind of plan, but there's none more convenient than the one right in

your neighborhood. So come see us soon. Why not have the IRA that works twice as nice?



# ALLENDALE:

Year Old Brick Home Features 3 Bedrooms, Bath & 1/2, Den with Fireplace On Corner Lot

## HARVEY POINT ROAD:

3 Miles From Hertford; Lovely Brick Home, 3 Bedrooms, 2 Baths, Den with Fireplace, Dining Room and Foyer. Priced To Sell. CAPE COLONY AREA: Neat cottage in wooded area. Priced to move.

MEXICO ROAD:

Attractive Brick home featuring living room, den-kitchen, (with fireplace), three bedrooms, two baths, utility room, garage MORGAN PARK:

Lovely brick home with living room, huge den (fireplace), rec room, kitchen, three bedrooms, two baths, screened porch.

## ALLENDALE:

Nice brick home in good location. House features living room, dining room, kitchen, utility, three bedrooms, two baths.

# ARROWHEAD BEACH:

2 Bedroom home with kitchen, den, and glass patio. QUEEN STREET EXTD .: Brick 3 BR Home, 11/2 Bath, LR, Den, 2 Fireplaces, Central Air & Heat. N. C. 32: Block Bldg., 2 Acres Land, Mobile Home Included. HISTORIC DISTRICT: 2 Story, 3 Bedrooms, 3 Car Garage, Fireplace, Floored Attic, Chainlink Fence, Excellent location. HISTORIC DISTRICT: 4 Bedrooms, 3 Baths, 5 Fireplaces, Livingroom, Dining Room, Eat In Kitchen, Laundry room, Woodburning Stove. Included, Studio Apartment **OTHER LISTINGS:** 60 x 12 Mobile Home, Well Constructed & Insulated. Excellent Buy. Various Home Sites & Commercial Property Available CAPE COLONY AREA: Mobile Home on Large Lot, Rear Deck & Screened Back Porch, New Spacious Garage-Workshop. COUNTRY CLUB DRIVE: Excellent Waterfront Property, Sandy Beach, 2 Boat Slips, 3 Bedrooms, 21/2 Baths, Great Room, 2 Car Garage. CHOWAN BEACH: Neat 2 Bedroom Home, 3 Out Buildings, Chain Fence, Large Lot Priced to SELL.

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