

EPA plans ways to reduce acid rain causes

By DENNIS DOWDY
Staff Writer

Coal-burning power plants may soon be using a new pollution control system developed by the Environmental Protection Agency that reduces the amount of sulfur oxide and other gases thought to cause acid rain by 70 percent and is less expensive than other removal systems, said Debby Janes, a public affairs spokeswoman for the EPA branch in the Research Triangle Park.

The Limestone Injection-Multistaged Burner (LIMB) program is the result of a series of studies on sulfur oxide and other gases suspected to contribute greatly to the formation of acid rain, she said. The gases are released in huge quantities from older coal-burning plants.

The system is a much sought-after solution to the older plants' pollution problems, Janes said.

"In this system, the coal burner in the plant goes through a series of staged combustions, which make the coal burn more completely and release fewer gases. Then the limestone is injected into the process. The burner's heat changes the limestone into lime, which absorbs the refuse gases."

Other removal systems also utilize limestone as well, although these devices, called scrubbers, can remove gases only from the plants' exhaust, she said.

One of the greatest advantages of using the LIMB

system is cost savings.

"Scrubbers are usually expensive for old coal-burning plants, because they have to rearrange everything. However, the LIMB program can be added to their burners for a much smaller cost," Janes said. The operating costs of the LIMB system is up to 80 percent less expensive than scrubbers, she said.

The EPA will receive about \$10 million in funding for the development of the LIMB system and other acid rain studies in its laboratories nationwide. Many industries have contested earlier EPA research about acid rain, and the Reagan administration has called for more studies on acid rain and its effects.

One of the studies involves tracing sulfur oxide and other gases from plants to see how far they travel and if they react with other gases to form acid rain, said Francis Pooler, one of the scientists working on this study. One tracer experiment was conducted last September.

"We injected an inert gas into the refuse of a plant in the Eastern Midwest and took samples of the air to see how far the gas had spread. The study revealed that the gas traveled about 1,000 kilometers, the equivalent of about 600 miles," Pooler said. Many other factors could have played a part in the results of the study, such as waste from other plants mingling with the traced gas, he said. The EPA plans to make other tracing studies and

take chemical measurements of emissions to see if sulfur oxide combines with other gases in the air, he said.

"Right now we're in the stepping stone process of the studies," Pooler said. "We have to get definite answers to the what, when and why questions before we can come up with solutions."

One part of the EPA study of acid rain that seems to be getting less attention is the study of how sulfur oxide deposits that fall to ground react with the soil, said Thomas Ellestead, a scientist in the Aerosol Research Branch of the EPA.

"The trouble with studying the controls and effects of dry deposition is that it is hard to detect. Original studies that attempted to measure the deposits were totally meaningless," he said. The current system for measuring dry deposits is more efficient and can take measurements for 1-7 day periods at a time, said Ellestead. The measuring device is composed of several tubes of non-reactive Teflon that extract gases from down drafts.

Although the study is complicated, it is greatly needed, he said.

"Some people say that the amount of dry deposition is up to seven times more than wet (such as gases). Currently, we are studying the most important pollutants, such as sulfur oxide and others, to assess the problem, then learn to control it."

Senate stops Kennedy bill

From Associated Press Reports

WASHINGTON — President Reagan's \$61 million military aid package for El Salvador survived a crucial test Tuesday as the Senate rejected a move to withhold 15 percent of the funds until the Salvadoran government obtains a verdict in the 1981 murder of two U.S. labor advisers.

The proposed amendment by Sen. Edward M. Kennedy, D-Mass., was rejected 69-24, his second defeat in two days on the issue of Salvadoran aid. On Monday, the Senate rejected 63-25 his bid to slash the aid to \$21 million.

Sen. Robert Kasten, R-Wis., chairman of the appropriations subcommittee that oversees foreign aid, said, "Any effort to withhold aid today is simply a vote against the level that we have a greed to."

Smith to remain

WASHINGTON — William French Smith will continue to serve as attorney general until a successor is

News In Brief

confirmed, White House spokesman Larry Speakes said Tuesday.

President Reagan had asked Smith to stay on as attorney general during Senate confirmation hearings for White House counselor Edwin Meese III, whom Reagan has nominated to replace Smith. Smith has been anxious to return to his California law practice, as well as to take an active role in the president's re-election campaign.

Death sentences studied

A white man who kills another white man is more likely to get a death sentence than a black man who kills another black man, according to recent studies of death sentences in North Carolina.

Samuel Gross, a Stanford University law professor, says his research indicates the victim's race has more to do with capital sentences than the race of the murderer.

For the record

In Tuesday's edition of the DTH, we incorrectly reported that Greg Hecht suggested to the CGC Finance Committee that they may have overallocated some

campus organizations which received funding earlier in the year. Hecht did not make the statement. The DTH regrets the error.

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is the "Talk of the Town":

Jade Palace is a very enjoyable place to have dinner. The seafood dishes are especially delicious and the service is very attentive. The best hot & steam soup in Chapel Hill! — J. McGuire, Chapel Hill, N.C.

Since eating at the Jade Palace the first night it opened and at least weekly thereafter, we have found the quality remains high, the price reasonable and the service commendable. — The Brady's, Fox, Pat, Cheryl and Allison

The flavorings are subtle & delicious. And the dinner may "custom design" his meals. Don't miss the Vegetarian's Tofu Soup. — Ronald White

The food was excellent, and the service really fast and efficient. Good pizza too. — Malcolm Chombarani, Rt. 6 Box 52, Hillsborough, N.C. 27227

My wife & I returned from Hillsborough & enjoyed the quiet atmosphere and the food was excellent. — D. Turle

LUNCHEON MENU *Hot and Spicy

*All Luncheons include choice of Fried Rice or Lo Mein and Soup (25¢ delivery charge for Soup)

*Shrimp dish is 25¢ extra

REGULAR LUNCHEON 3.25	LUNCHEON SPECIAL 2.90	FRIDAY
1. Moo Gu Gai Pien	1. Beef with Vegetables	1. Beef with Green Peppers
2. Kung Pao Chicken	2. Sweet and Sour Pork	2. Sweet and Sour Pork
3. Chicken with Cashew Nuts	3. Kung Pao Chicken	3. Bar-B-Q Chicken Wings
4. Bar-B-Q Chicken Wings	4. Chicken with Broccoli	4. Kung Pao Shrimp
5. Sweet and Sour Chicken		5. Deep Fried Fish Filet
6. Sweet and Sour Pork	TUESDAY	SUNDAY LUNCHEON 3.25
7. Pork with Vegetables	1. Beef with Broccoli	1. Moo Gu Gai Pien
8. Pork with Beijing Sauce	2. Sweet and Sour Chicken	2. Kung Pao Chicken
9. Beef with Broccoli	3. Kung Pao Shrimp and Chicken	3. Sweet and Sour Chicken
10. Beef with Green Peppers	4. Bar-B-Q Chicken Wings	4. Sweet and Sour Pork
11. Kung Pao Shrimp	WEDNESDAY	5. Pork with Beijing Sauce
12. Shrimp with Cashew Nuts	1. Beef with Green Peppers	6. Beef with Broccoli
13. Shrimp Fried Rice	2. Sweet and Sour Pork	7. Shrimp with Cashew Nuts
14. Vegetarians' Delight	3. Kung Pao Chicken	8. Kung Pao Shrimp
Egg Roll 85¢ (70¢ with meal)	4. Shrimp with Vegetables	9. Shrimp Fried Rice
	THURSDAY	10. Vegetarians' Delight
	1. Beef with Broccoli	*Shrimp dish is 25¢ extra
	2. Sweet and Sour Chicken	
	3. Bar-B-Q Chicken Wings	
	4. Pork, Tofu and Vegetables	
	5. Deep Fried Fish Filet	

DINNER MENU *Hot and Spicy

DINNER MENU *Hot and Spicy	BEEF	DEEP FRIED SEAFOOD
SOUPS	23 Beef with Fresh Broccoli 5.45	entrees below are served with choice of lo mein/fried rice/french fries
*10 Jade Palace Seafood Chowder 1.25	24 Beef with Snow Peas 5.85	49 Shrimp 6.55
*11 Hot and Sour Soup90	25 Beef with Green Peppers 5.75	50 Oysters 6.85
12 Wonton Soup95	*26 Beef with Garlic Sauce 5.75	51 Scallops 6.85
13 Vegetarians' Tofu Soup 2.45	*27 Beef with Sweet Ginger 5.95	52 Flounder Filet 6.25
APPETIZERS	*28 Hunan Beef 6.95	53 Combination of Any (3) 7.15
14 Fried/Steamed Dumplings (4) 2.50	*29 Beef with Orange Flavor 6.95	JADE PALACE SPECIALTIES
15 Shanghai Egg Roll95	POULTRY	54 Seafood Delight 8.15
16 Shrimp Toast (4) 2.65	30 Moo Gu Gai Pien 5.45	55 Assorted Seafoods in In a Bird's Nest 8.35
17 Pu Pu Plate (for two) 6.45	31 Chicken with Cashew Nuts 5.50	56 Phoenix Shrimp 8.15
LO MEIN/FRIED RICE	*32 Kung Pao Chicken 5.65	A combination of stir & deep fried shrimp
18 Beef 4.45	*33 Chicken with Garlic Sauce 5.65	57 Crispy Peking Shrimp 7.55
19 Shrimp 4.85	34 Cantonese Chicken 5.85	Exquisite sauce with wine & garlic
20 Chicken 4.45	35 Sweet and Sour Chicken 5.15	58 Crispy Peking Shrimp & Scallops 7.95
21 Pork 4.45	PORK	*59 Szechuan Sautéed Scallops & Shrimp 7.95
22 Vegetables 4.25	36 Sweet and Sour Pork 5.15	*60 Hunan Beef and Shrimp 7.95
DIM-SUM (Hors D'oeuvres Sunday lunch only)	37 Moo Shu Pork (with 4 tortillas) 5.95	Tender beef and shrimps with Peking Sauce
1. Steamed Fried Dumplings 2.45	38 Pork with Fresh Broccoli 5.45	61 King Crabmeat with Golden Mushrooms 8.65
2. Shrimp Toast 2.45	39 Pork with Snow Peas 5.65	62 Sweet and Sour Fish 7.50
3. Shrimp Balls 1.50	*40 Pork with Garlic Sauce 5.65	*63 Sliced Fish Filet with Garlic Sauce 7.55
4. Phoenix Wings 1.50	*41 Mapo Tofu 5.50	*64 Spicy Sautéed Squids 6.95
5. Chinese Pancakes 1.50	STIR FRIED SEAFOOD	Stir fried squids with vegetables
6. Hong Kong Ribs 1.50	*42 Kung Pao Shrimp 6.85	65 Golden Duckling with Smoke Flavor 7.95
7. Egg Roll85	43 Shrimp with Cashew Nuts 6.95	With Lichee Nuts, sweet and sour sauce
	*44 Shrimp Szechuan Style 7.35	66 Golden Duckling with Seafood 8.95
	*45 Shrimp with Garlic Sauce 6.95	67 Lemon Chicken 7.25
	46 Shrimp with Lobster Sauce 7.35	*68 J.P. Special Chicken & Scallops 8.50
	VEGETABLES	69 J.P. Special LoMein 6.85
	47 Vegetarians' Delight 4.25	Pan fried noodles with shrimp & chicken
	48 Tofu Vegetables 4.45	

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March 15, 1984