Classifieds Officials: Safety procedures R will delay restart of reactor

Savannah River Plant to start up the K-

phased operation that should bring it

Department officials also have decided to postpone restarting the plant's P-reac-tor, which experienced problems in Au-

gust. In congressional testimony on

Sept. 30, Salgado said the P-reactor

department officials now have decided

The third facility at the plant, the L-re-

actor, is scheduled to be restarted in the

first three months of next year, Salgado

could be restarted within 30-45 days, but

that it should not be brought back into

operation until late 1989, he said.

close to full steam in early January

partment officials, declaring a need to 'rectify past sins' in its operation of atomic reactors, on Tuesday announced that the introduction of new safety procedures would delay restarting the Savan-nah River Plant, which produces nuclear weapons materials.

The Battalion

Energy Undersecretary Joseph Salgado also gave assurances that plutonium and tritium supplies are adequate to ensure that existing nuclear weapons would not degrade or be cannibalized to assure a continued strategic deterrent.

The three aging reactors at Savannah River, in Aiken S.C., have been shut down for safety considerations.

Construction of new reactors to produce nuclear weapons materials is not expected to start until the early 1990s.

All three reactors will be started Salgado, addressing a midday news slowly, using what Deputy Assistant Enconference, said that Energy Department ergy Secretary Richard W. Starostecki

officials have ordered engineers at the described as a "phased" operation designed to test and assess each step before reactor in December during a four-week the reactor is brought to full power. New operating procedures are needed

to ensure safety at Savannah River, which has come under renewed scrutiny on Capitol Hill in the wake of internal memoranda detailing operating problems since the plant opened in the early 1950s, Salgado, Starostecki and other Energy Department officials said.

"We have a moral obligation to rec-tify past sins," Salgado said.

An Energy Department statement issued after the news conference said that the three Savannah River reactors are the nation's only source of the tritium needed for the nation's nuclear deterrent.

Plutonium, also produced by the reactors, has a longer half-life than tritium, and therefore does not pose as critical a of service for routine maintenance accelerated safety upgrades," statement said.

The department is implement comprehensive program at the Savan River Plant to enable the facility by sume production of tritium within a

table margins of safety," it said.
"The program is designed to 150
uncertainties about safety issues, prove operations, improve the in ment's technical vigilance

strengthen oversight," it said.
White House spokesman Marini
water said President Reagan halbriefed by his national security and
Lt. Gen. Colin Powell, on the Samu River situation and related matters.

"We feel the supplies of trium be maintained as production stei are maintained in a safe manner," H

Powerful beam puzzles physicist

trying to say it's some mistake. But we can't,"

"We've been trying to make it go away. We've been

physicist at the University of California at Irvine

ALBUQUERQUE, N.M. (AP) — A powerful beam striking the Earth from a twin star system 14,000 light years away could herald a new type of particle that physicists said confounds the standard theories of physics.

The beam, carrying a million billion electron volts of energy, comes from a neutron star, half of a binary star system named Hercules X-1 in the constellation Hercules, Dr. Guarang Yodh, a physicist at the University of California at Irvine,

The neutron star is nearly the size of Earth's moon, but is extremely dense with a mass nearly double the sun's.

The other half of the star system, about 4 million miles from the neutron star, is a star similar to the sun.

The neutron star is a large, spinning magnet, generating massive electromagnetic fields and giving off powerful ra-

The beam, first detected at Los Ala-

Gamma rays are not supposed to do

mos National Laboratory in July 1986,

initially was believed to be electrically

neutral gamma rays, which are high-en-

ergy light waves or photons.

The problem with that interpretation

was that the beam hits way up in the at-

mosphere and produces a shower of par-

ticles, Yodh said Friday in a telephone

that, Dr. Darragh Nagle, a physicist at the Los Alamos lab, said.

new insights about sources of energy in

structure of matter.

the universe and about the elementary Yodh said scientists have come up

"That's the thing that's interesting and puzzling about the finding," Nagle beam, which also has been detected by

cided by the results in several large

that two senior strategists had been pulled out of Florida in what seemed to

be a concession that Bush's double-digit

lead there could not be overcome. The

two were headed for Ohio, a swing state

over the next few days to prepare for their second and final debate of the fall

campaign, set to begin at 9 p.m. EDT Thursday on the campus of UCLA.

west, Dukakis mentioned several steps to

improve America's ability to "take charge of our future," including a major

computers and compact discs to the Ger-

not arms to the ayatollah," he said.

mans and the Japanese and the Koreans,

perpowers are scrapping their medium-

and short-range nuclear missiles world-

be sucessfully completed soon if it were

not for what he said was the West's in-

Tass did not immediately report Vra-

nitzky's speech or indicate whether he

responded to Ryzhkov's charges about

Ryzhkov said the Vienna talks could

"I want us to begin selling cars and

In a speech near Boston before flying

where Dukakis is viewed as trailing more

Both candidates have set aside time

Democratic party officials announced

Dr. Guarang Yodh,

said. "There is the possible presence of a

new particle that is coming out of the

beam; it's this peculiar interaction in the Earth's atmosphere," Nagle said in a

"It isn't the power of the neutral

Yodh said the discovery should lead to

study of a powerful neutral beam.

telephone interview.

observatories in Arizona and h One explanation is that it is made previously unknown particle.

"It is unexplainable by conven theory, present-day knowledge,"

checking their research and tryin come up with an explanation, he s

"We've been trying to make away. We've been trying to say its mistake. But we can't," Yodhsid

NASA says O-ring seal

worked we CAPE CANAVERAL, Fla. O-ring seals in the joints of shuttle Discovery's left boostern

suffered no damage during month's launch, NASA rep Monday as workers began disas bling the right booster. The shuttle Challenger was

stroyed and its crew of seven lo Jan. 28, 1986, when superhots

flames burned through the sy rubber O-rings in a faulty joint Discovery's Sept. 28 laund the first since the accident, a two solid fuel rockets burned minutes as planned and that achuted into the Atlantic where they were recovered as

turned to the Kennedy Space Co Officials reported earlier initial inspection after recovery

Ed Medal, a spokesman forth tional Aeronautics and Space Ab istration's Marshall Space R Center in Huntsville, Ala., 107 late Monday that engineers had pleted dismantling of both bos

"All six field joints were apart and looked at," he said erything looks great. There we evidence of hot gas or heat on the O-rings. The new bonded in tion did its job.

There are three joints in each 149-foot-tall rockets. Each join

three O-rings. He said new insulation added joint area also worked as inten keeping burning gases away fr

On the Challenger, each join

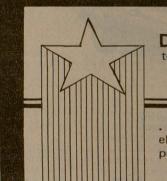
two O-rings. In redesigning rocket, engineers at the Marshitter and at Morton Thiokol, the ufacturer, added a third 0-ring of a metal lip, called a captur ture, intended to preven movement under pressure of i

Earlier in the day, the two met pri-

the conventional force talks.

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Dukakis said: "Dan Quayle asks us to believe that if he ever had to fill in for

George Bush, America could get by on a

right wing and a prayer."

Bush countered and defended his pick

legislation that created jobs for the poor.

He said that Quayle had helped draft

The two combatants in the race for the

White House exchanged barbs as fresh

polls charted a dwindling lead for Bush

The surveys showed Dukakis and run-

ning mate Lloyd Bentsen gaining ground

since last week's vice presidential debate

with four campaign weeks remaining.

as prelude for final debate

Bush, Dukakis attack issues

Michael Dukakis and George Bush sparred at a distance Tuesday over trade sues in a prelude to this week's primetime debate. The Democrat vowed to stand up for American companies and jobs, while the vice president charged that his rival was guilty of "protectionist

demagoguery. 'My opponent needs an issue and he's willing to scare people to find it," Bush said of Dukakis' recent emphasis on a

need to regain American dominance in world economic competition. Dukakis counterpunched a few hours later as he left Boston for the West

"I'm for more trade, not less trade. I want to export American products, not American jobs," he said.

Dukakis also took a fresh swipe at the Republican vice presidential candidate as new polls indicated Bush's ticketmate is

MOSCOW (AP) — Premier Nikolai I.

Organization nations on Monday for try-

in negotiations aimed at reducing con-

ventional forces in Europe, Tass re-

Chancellor Franz Vranitzky, who came

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days of talks with Soviet officials.

Ryzhkov's attack came in a speech at

Despite the fact that the polls don't effort to improve the nation's scientific show it, surveys by the Associated Press and engineering capabilities. and others in recent weeks have made the

between Bentsen and Ouavle.

indication that Bush holds a marked advantage in the Electoral College

As of now, the race is likely to be de-Soviet scolds NATO for arms talks

delegations are still unable to overcome

Ryzhkov scolded North Atlantic Treaty the temptation of pressing me socialist countries yet one more time in a bid to gain concessions," Ryzhkov said. ing to extract concessions from Moscow Eastern and Western European countries have been trying for years in Vienna, the Austrian capital, to agree on

a Kremlin dinner honoring Austrian troops on the continent. to the Soviet capital on Monday for four Western countries, led by the United States, have claimed that purported Soviet superiority in these forces has be-

mutual cuts in conventional arms and

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