

**From:** <rod.krich@exeloncorp.com>  
**To:** <mcw@nrc.gov>  
**Date:** 8/3/04 11:45AM  
**Subject:** FW: Barr Email

Melanie,

Here is the response we provided to Mr.. Barr for your information.

Rod Krich  
-----Original Message-----  
**From:** April Wade [mailto:Awade@NEFNM.com]  
**Sent:** Tuesday, August 03, 2004 10:26 AM  
**To:** KrichR  
**Subject:** Barr Email

I sent the email last week. It took a little longer because my info account wasn't sending emails but I got it fixed.

**From:** info  
**Sent:** Friday, July 30, 2004 9:10 AM  
**To:** 'PHILLIP BARR'; Steve Terrell; smills; ron\_curry@nmenv.state.nm.us; sbnm@nmbar.org  
**Cc:** w\_foster@excite.com; npatbrown@yahoo.com; Sue Gagner; Ned; Kathy Helms; desktopt@santafetimes.com; letters@crosswindswweekly.com; ggkern@valornet.com; fredhiatt@washpost.com; krqesoundoff@krqe.com; webmaster@lubbockonline.com; 'mw@nrc.gov'  
**Subject:** RE: Question for Louisiana Energy Services

Mr. Barr

The NEF Environmental Report states that the operation of the NEF will not exceed the dose equivalent criteria for members of the public as stipulated in Federal regulations.

Historically, the U. S. Nuclear Regulatory Commission has adopted recommendations for radiation protection developed by the International Commission on Radiological Protection (ICRP) and the National Council on Radiation Protection and Measurements (NCRP). These organizations have adopted a conservative approach to setting standards for the exposure of the public. As noted in NCRP Report 39 (Basic Radiation Protection Criteria), consideration is given to the wide spectrum of ages in the population, including the sensitive embryonic stages, children, and the presence of people in all states of health.

Reviews of the effects of radiation on human populations by national and international advisory bodies continue to be conducted. The conclusions of these reviews are utilized by the NCRP and the ICRP in their ongoing

evaluations of exposure recommendations for workers and members of the general public. Therefore, the NRC regulations for the exposure of the public do ensure the safety of pregnant women, children, the elderly, and people with impaired immune systems.

According to the NEF Environmental Report, the annual Total Effective Dose Equivalent (TEDE) to the nearest resident is  $1.9 \times 10^{-5}$  mSv ( $1.9 \times 10^{-3}$  mrem). The annual TEDE to the worker at the nearest business is  $8.5 \times 10^{-5}$  mSv ( $8.5 \times 10^{-3}$  mrem). Nearby businesses include WCS, a quarry operation and the county landfill. The annual TEDE includes the dose contribution from gaseous and liquid effluents as well as direct radiation from sources such as the storage pad.

Not only are these dose equivalents below the regulatory limits, but they are also a small fraction of the doses nearby non-LES workers and residents receive from natural background. As noted in the NEF Environmental Report, the average dose equivalent to an individual from background radiation is about 2 to 3 mSv per year (200 to 300 mrem per year). For the nearest non-LES worker and a background of 200 mrem per year, the annual dose from the NEF is only 0.00425% of background. The annual dose to the nearest worker is 0.034% of the Environmental Protection Agency (EPA) annual limit of 25 mrem. These fractions (0.00425% and 0.034%) are even lower for the nearest resident.

For these reasons, LES has concluded that the operation of the NEF is safe and will not harm pregnant women, children, the elderly, and people with impaired immune systems.

Thank you for your patience

---

From: PHILLIP BARR [mailto:pharb2@msn.com]  
Sent: Thursday, July 08, 2004 1:08 PM  
To: info; Steve Terrell; smills; ron\_curry@nmenv.state.nm.us; sbnm@nmbar.org  
Cc: w\_foster@excite.com; npatbrown@yahoo.com; Sue Gagner; Ned; Kathy Helms; desktop@sanfetimes.com; letters@crosswindswkly.com; ggkern@valornet.com; fredhiatt@washpost.com; krqesoundoff@krqe.com; webmaster@lubbockonline.com  
Subject: Question for Louisiana Energy Services

Its my understanding that the NRC and Louisiana Energy Services have both stated that the radiation the Les plant will release is safe for everyone. This question is for LES. How can your company be sure the radiation it releases from the proposed uranium enrichment plant in Lea county would be safe for pregnant women, children, the elderly, and people with impaired immune systems?

(This is one of the questions I asked Mellanie Wong and Mark Delligatti of the NRC . They are too busy to answer this question at this time.)

Phillip Barr  
lea county

April Wade

Director of Communications

National Enrichment Facility

505-944-0194 office

505-944-0198 fax

505-440-9441 cell

\*\*\*\*\*  
This e-mail and any of its attachments may contain Exelon Corporation proprietary information, which is privileged, confidential, or subject to copyright belonging to the Exelon Corporation family of Companies. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout. Thank You.  
\*\*\*\*\*

**Mail Envelope Properties (410FB30D.EDB : 11 : 16091)**

**Subject:** FW: Barr Email  
**Creation Date:** 8/3/04 11:44AM  
**From:** <rod.krich@exeloncorp.com>

**Created By:** rod.krich@exeloncorp.com

**Recipients**

nrc.gov

twf4\_po.TWFN\_DO

MCW (Melanie Wong)

**Post Office**

twf4\_po.TWFN\_DO

**Route**

nrc.gov

**Files**

MESSAGE

TEXT.htm

Mime.822

**Size**

5475

10256

17668

**Date & Time**

08/03/04 11:44AM

**Options**

**Expiration Date:**

None

**Priority:**

Standard

**Reply Requested:**

No

**Return Notification:**

None

**Concealed Subject:**

No

**Security:**

Standard