



**North Carolina Department of Health and Human Services
Division of Public Health
1931 Mail Service Center • Raleigh, North Carolina 27699-1931**

Michael F. Easley, Governor
Carmen Hooker Odom, Secretary

Leah Devlin, DDS, MPH
State Health Director

December 5, 2005

Mr. Nader Mamish
Director, Emergency Preparedness Directorate
Mail Stop O6-H2
US Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Mamish:

In follow-up to your November 10, 2005 letter, we are writing to request 3500 one ounce bottles of ThyroShield (Pediatric Potassium Iodide Oral Solution) for stockpiling and distribution within the 10-mile Emergency Planning Zones (EPZ) of the four nuclear power plants in or adjacent to North Carolina.

The request for 3500 bottles is based on the following: We calculated the proportion of North Carolina's population age 0 to 10 years old to be 15% based on Year 2002 North Carolina Demographic Data. We then applied that percentage to the most recent nuclear power plant-specific 10-mile EPZ population estimates below and multiplied by two (two doses per individual 0-10 yrs) to determine the total number of doses. We then assumed 30 doses per 1 ounce bottle to arrive at 3500 bottles.

10-Mile Emergency Planning Zone (EPZ) Population
(Data from Individual Plant Emergency Evacuation Studies)

NUCLEAR POWER FACILITY	PERMANENT EPZ POPULATION	TRANSIENT EPZ POPULATION
McGuire Power Station (Duke Power)	132,000	15,600
Brunswick Power Plant (Progress Energy)	27,348	119,706
Harris Power Plant (Progress Energy)	31,000	10,000
Catawba Power Station (Duke Power-NC EPZ)	17,280	8,684
TOTAL EPZ POPULATION	207,628	153,990



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Combined EPZs (Perm + Trans)	363,618
Proportion Ages 0-10 yrs	$\times .15$
Population Ages 0-10 yrs	54,543
Two doses per child	$\times 2$
	105,186 doses

1 oz bottle=30 ml=65mg KI=30 (+) doses per bottle depending age of children
Total request: 3500 one ounce bottles

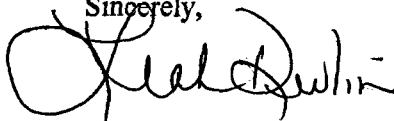
The person designated to receive the potassium iodide for the State of North Carolina is Dr. Lou Turner. She may be reached via e-mail at lou.turner@ncmail.net and by phone at (919) 715-6734. Please contact Dr. Turner in advance to let us know roughly the date of delivery. The potassium iodide bottles should be shipped to the following address:

North Carolina Department of Health and Human Services
Division of Public Health
Bath Building
306 North Wilmington Street
Raleigh, North Carolina 27611
Attn. Dr. Lou Turner

If you have any questions regarding this request please contact Dr. Turner. In her absence, contact either Dr. Greg Smith at (919) 715-8179 or Dr. Steve Cline at (919) 715-6733.

Thank you for providing pediatric potassium iodide solution to the State of North Carolina. Its distribution to specific target populations will supplement the primary preventive efforts of early warning, evacuation and sheltering in our state's emergency response plan.

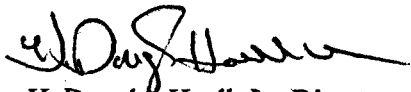
Sincerely,



Leah Devlin, D.D.S., M.P.H.
State Health Director
Division of Public Health
NC Department of
Health and Human Services



Beverly O. Hall, Chief
Radiation Protection Section
Division of Environmental Health
NC Department of Environment
and Natural Resources



H. Douglas Hoell, Jr., Director
Division of Emergency Management
NC Department of Crime Control and Public Safety

Cc: J. Steven Cline, DDS, M.P.H., Chief, Epidemiology Section, Division of Public Health
C. Gregory Smith, M.D., M.P.H, Medical Epidemiologist, Epidemiology Section
Stephen Payne, REP Program Manager, Division of Emergency Management
Lou F. Turner, Dr.P.H., Interim Public Health Preparedness Coordinator, OPHP&R