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B. GERTIFICATE			D. REVISION N	UMBER	C PACKAGE IDENTIFI		d. PAGE NUMBER	e. TOTAL NUMBER PAG
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of Federal b. This certifi	Regulati cate doe	ons. Part 71, "Packagin s not relieve the consig	g and Transport	tation of Radii iance with any	bed in Hem 5 below, me pactive Material." y requirement of the reg ny through or into whic	ulations of the U.S.	Department of Tran	
a ISSUED TO //	Name and	Address)		D TITLE AN	F THE PACKAGE DESIGN ID IDENTIFICATION OF R	EPORT OR APPLICAT		
140 3	Stone	ear Systems, ridge Drive SC 29210	Inc.		Chem-Nucle dated June		Inc., app	lication
					71-92	49		
				c. DOCKET				
CONDITIONS This cettificate	e is cond	litional upon fulfilling t	ne requirements	of 10 CFR P	art 71, as applicable, ar	nd the conditions sp	pecified below.	
(a)	Pack	aging						
	(1)	Model No.:	CNS 14-1	70, Ser	ies III			
	(2)	Description						
		inner steel outer steel plates welde integrally wall. A ste of the side thick steel with the ste gasket locat the lid is a lid contains thick steel welded. The 3/4-inch ste packaging is shell has a accomplished are four cas	shell, a shell. ed togeth welded to eel flang wall at plates, eel flang ted betwe accomplis s a centr plates a e shield uds and n s constru minimum d by four sk liftin	1-3/4 The basis er to for the inne e is we the top which a en the hed by ally loo nd one, plug is uts are cted of yield s tie-doo g lugs,	sk side wall inch lead she e is comprise orm a 4-inch her and outer lded to the i . The lid is re stepped an cask closure lid and steel eight, 1-3/4 cated shield 1-inch thick sealed by a used to prov A-516, Grade trength of 46 wn lugs welde three lid li age gross wei	<pre>11, and a 1 d of two, 3 thick base steel she nner and or comprised d welded to is sealed flange, po inch ratche plug compr steel plat Neoprene ga ide positiv 70, carbor ,000 psi. d to the ca fting lugs</pre>	7/8-inch th 2-inch thic which is 11s of the ater steel of two, 2- ogether to by a Neopro ositive clo et binders. ised of two te stepped asket, and ve closure. n steel. T Tie-down i ask body. , and one s	ick k steel side shells inch mate ene sure of The , 2-inch and eight, The he outer s There hield
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6.

CONDITIONS (continued)

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5.(a)(3) Drawings

The Model No. CNS 14-170, Series III packaging is fabricated in accordance with Chem-Nuclear Systems, Inc., Drawing Nos.: C-110-D-0016, Sheets 1 and 2, Rev. 4; C-110-D-0017, Sheets 1 and 2, Rev. C; C-110-D-0018, Sheets 1 and 2, Rev. C; and C-110-D-0019, Rev. B.

- Contents (b)
 - (1) Type and form of material

Process solids, either dewatered, solid or solidified, meeting the requirements for low specific activity material, in secondary containers.

Maximum quantity of material per package (2)

> Greater than Type A quantity of radioactive material which may contain fissile material provided the fissile material does not exceed the limits in 10 CFR §71.53. The weight of the contents, and secondary containers shall not exceed 17,800 pounds. The internal decay heat load shall not exceed 7 watts.

- (a) For any package containing water and/or organic substances which could radiolytically generate combustible gases, determination must be made by tests and measurements or by analysis of a representative package such that the following criteria are met over a period of time that is twice the expected shipment time:
 - The hydrogen generated must be limited to a molar quantity that (i)would be no more than 5% by volume (or equivalent limits for other inflammable gases) of the secondary container gas void if present at STP (i.e., no more than 0.063 g-moles/ft3 at 14.7 psia and 70°F); or
 - (ii) The secondary container and cask cavity must be inerted with a diluent to assure that oxygen mu: 2 be limited to 5% by volume in those portions of the package which could have hydrogen greater than 5%.

For any package delivered to a carrier for transport, the secondary container must be prepared for shipment in the same manner in which determination for gas generation is made. Shipment period begins when the package is prepared (sealed) and must be completed within twice the expected shipment time.

(b) For any package shipped within 10 days of preparation, or within 10 days after venting of drums or other secondary containers, the determination in (a) above need not be made, and the time restriction in (a) above does not apply.

 Page 3 - Certificate No. 9249 - Revision No. 1 - Docket No. 71-9249 I. In addition to the requirements of Subpart 6 of 10 CFR Part 17: A frior to each shipment, the packaging lid seals, if opened for if security seal is broken, must be inspected. The seals must be ground of the security seal is broken, must be inspected. The seals must be ground of the security seal is broken, must be inspected. The seals must be ground of the security is provided with inspection shows any defects or every 12. B for the ackage must meet the Acceptance Tests and Maintenance Program. B for package shall be prepared for shipment and operated in ground of the application. I for une requirements for closure fasteners: B condary lid natchet binders must be torqued to 175-200 ft-16s. B for ackage authorized by this certificate must be transported on a motor second restrict, railroad car, alrevit, inland watercraft, or hold of ode of a motor second restrict, all the second second of the for second second	 In addition to the requirements of Subpart 6 of 10 CFR Part 71: Prior to each shipment, the packaging lid seals, if opened (or if security seal is broken), must be inspected. The seals must be months, whichever occurs first. Each package must meet the Acceptance Tests and Maintenance Program in Chapter 7.0 of the application. The package shall be prepared for shipment and operated in acordance with the Operating Procedures in Chapter 6.0 of the application. Torque requirements for closure fasteners: Primary lid ratchet binders must be torqued to 175-200 ft-1bs. Secondary lid bolts must be torqued to 120 ± 10 ft-1bs. Secondary lid bolts must be torqued to 120 ± 10 ft-1bs. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 57.12. Expiration date: July 31, 1998. Demenuel and the systems, Inc., application dated June 25, 1993. For THE U.S. NUCLEAR REGULATORY COMMISSION Magadadadadadadadadadadadadadadadadadada	NRC FORM (6-83)	616A	CONDITIONS (continued) U.S. NUCLEAR REGULATORY COMMISSIO						
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			Date:							



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

APPROVAL RECORD

Model No. CNS 14-170, Series III Certificate of Compliance No. 9249 Revision No. 1

By application dated June 25, 1993, Chem-Nuclear Systems, Inc., requested renewal of Certificate of Compliance No. 9249 for the Model Nos. CNS 14-170 Series III package. No design changes were requested to the package.

In support of the request, Chem-Nuclear submitted a consolidated application. A review of the consolidated application confirmed that all appropriate information has been incorporated in the safety analysis report. Sections on operating procedures, maintenance programs and acceptance tests were reviewed and found to be adequate.

The applicant revised Drawing No. C-110-D-0016, Rev. 4 to update the Certificate of Compliance number shown on the package.

The certificate has been renewed for a five year term which expires on July 31, 1998.

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Cass R. Chappell, Section Leader Cask Certification Section Storage and Transport Systems Branch Division of Industrial and Medical Nuclear Safety, NMSS