

RobertoJ Torres

From: Rhonda.S.Carpenter [Rhonda.S.Carpenter@noaa.gov]
Sent: Thursday, February 26, 2009 12:55 PM
To: RobertoJ Torres
Cc: Michael O'Neill; John Schneider; Ann M. Middlebrook; Thomas Altwater
Subject: Amendment Request NOAA #05-11997-01
Attachments: JElkins_cv-1.pdf; Rhonda_S_Carpenter.vcf

Dear Mr. Torres:

We request the following amendments to NOAA's License # 05-11997-01:

1. Remove item #12D as it no longer applies.
2. Please change the wording in item 15A to what is stated below. We need it to be clear that only the personnel listed in 15B can perform non-routine maintenance which involves opening the Oven Assemblies to work on them. All other work (which does not involve opening the oven assembly) can be done by authorized users and field personnel.

15. A. The licensee is authorized to perform non-routine maintenance involving the installation of electron capture detectors (ECDs) containing Nickel-63 into custom-made Oven Assemblies (OAs), replacement/repair of electronic components on the exterior of ECDs, removal and replacement of ECDs from custom-made OAs and removal from service of ECDs taken from custom-made OAs as described in the procedures included with letter dated December 23, 2008 (ML090020005) and procedures included in E-Mail dated February 20, 2009 (ML090550017). This non-routine maintenance does not authorize opening the ECDs or removing the sealed sources from the ECDs.
3. Please add James Elkins to the list of authorized users in 15B. Attached is his CV.
4. Please change the wording in 10E to "Temporary job sites of the licensee anywhere in the United States and worldwide field locations, including mobile platforms such as aircrafts, vessels, balloons, etc." Justification: One of ESRL's Primary Investigators believes the lack of the wording "and worldwide field locations" prevents or hinders his participation in world wide research missions. This language was originally in the NRC License 05-11997-01 version August 2, 1991, Amendment No. 31.

Thanks very much. If you have any questions, please contact me at 303 497 3912 or Rhonda.S.Carpenter@NOAA.gov.

Sincerely,

Rhonda S. Carpenter, CIH

Field Safety Manager

Radiation Safety Officer

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Cirriculum Vitae

James William Elkins

DNMS

Education:	Ph.D., Applied Physics, Harvard University	1978
	S.M., Applied Physics, Harvard University	1975
	B.A., Physics, University of Virginia	1974
Employment:	Group Chief, Supervisory Physicist, Global Monitoring Division, (formerly CMDL), Earth System Research Laboratory, NOAA	1986-present
	Physicist, National Bureau of Standards (now NIST) Gas and Particulate Science Division	1979-86
	Research Fellow, Harvard University	1978-79
Scientific Honors, Awards, Activities:		
	EPA Team Award for Protection of the Ozone Layer	2007
	NOAA Bronze Award for the NOAA UAS Demo team	2006
	NOAA Outstanding Scientific Papers of the Year (ten separate paper awards)	1995-2002, 05-07
	Department of Commerce, Silver Medal Award (along w/ J.H. Butler & S. M. Montzka)	1997
	Principal Investigator, NASA Upper Atmospheric Research Program:	
	NASA TC4	2007
	NOAA UAS Demo, NASA UAS Fire Mission	2005,2006
	AVE-Houston, Costa Rica-AVE	2005,2006
	pre-Aura Validation Experiment (pre-AVE)	2004
	SOLVE-II	2002-2003
	CRYSTAL-FACE	2002
	ACCENT, LACE	1999-2000
	SOLVE for both ACATS-IV and LACE	1999-2000
	OMS, balloon missions, LACE	1995-2003
	POLARIS, STRAT and ACATS-IV	1995-1997
	ASHOE and MAESA mission, ACATS-IV	1994
	Stratospheric Photochemistry, Aerosols & Dynamics Experiment (SPADE)	1993
	Airborne Arctic Stratospheric Expedition (AASE-II), ACATS	1991-92
	Chief Scientist (Leg 2), Soviet-American Gas and Aerosol Experiment (SAGA-3)	1990

Selected Recent Relevant Publications:

Montzka, S.A., P. Calvert, B. Hall, J.W. Elkins, P. Tans, and C. Sweeney (2007), On the global distribution, seasonality, and budget of atmospheric carbonyl sulfide (COS) and some similarities to CO₂, *J. Geophys. Res.*, 112, D09302, doi:10.1029/2006JD07665.

Hurst, D. F., J. C. Lin, P. A. Romashkin, B. C. Daube, C. Gerbig, D. M. Matross, S. C. Wofsy, B. D. Hall, and J. W. Elkins. (2006). Continuing global significance of emissions of Montreal Protocol – restricted halocarbons in the United States and Canada. *J. Geophys. Res.*, 111, D15302, doi:10.1029/2005JD006785.

Hurst, D.F., P.A. Romashkin, J.W. Elkins, E.A. Oberländer, N.F. Elansky, I.B. Belikov, I.G. Granberg, G.S. Golitsyn, A.M. Grisenko, C.A.M. Brenninkmeijer and P.J. Crutzen, Emissions of ozone-depleting substances in Russia during 2001, *J. Geophys. Res.*, D14303 : doi:10.1029/2004JD004633, 2004

Montzka, S. A., J. H. Butler, J. W. Elkins, T. M. Thompson, A. D. Clarke and L. T. Lock, Present and future trends in the atmospheric burden of ozone-depleting halogens, *Nature*, 398, 690-694, 1999.

Wamsley, P. R., J. W. Elkins, *et al.*, Distribution of halon-1211 in the upper troposphere and lower stratosphere and the 1994 total bromine budget, *J. Geophys. Res.*, 103, (D1), 1513-1526, 1998.

Elkins, J. W. *et al.*, Airborne gas chromatograph for in situ measurements of long-lived species in the upper troposphere and lower stratosphere, *Geophys. Res. Lett.*, 23(4), 347-350, 1996.

Elkins, J. W., T. M. Thompson, T. H. Swanson, J. H. Butler, B. D. Hall, S. O. Cummings, D. A. Fisher and A. G. Raffo, Decrease in the growth rates of atmospheric chlorofluorocarbons 11 and 12, *Nature*, 364, 780-783, 1993.