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- Plaintiffs' Motion for Order Granting Access to Study. My professional career has been devoted to the study of human skeletal variation and what it can tell us about human development and evolution. Over the past two decades, I have been compiling a database of craniofacial measurements of historic and prehistoric human skeletons from around the world with particular emphasis on New World, Asian and other circum-Pacific populations. One of the goals of my research is to improve our understanding of the evolution of New World native populations and their biological relationship to Asian populations. For many years, it was generally assumed that the original inhabitants of the new World (the "Paleoamericans") were all one and the same people. My research indicates that this was not the case. Rather than one homogenous population, Paleoamericans constituted at least three different groups that had their origins in different Asian populations. My research also indicates that these different Paleoamerican population components are clearly separated by geographic region. This would suggest different dispersal and development patterns for each group (or parts thereof) following 12 arrival in the New World. 14
 - The Kennewick skeleton could provide critical data for my research and for development of my theories concerning the peopling of the Americas. From the photographs I have seen of the cast of the skull, it appears to be similar morphologically to prehistoric Japanese Jomon populations. If this is indeed the case, it raises the possibility that prehistoric Japanese populations may have played a significant role in providing the ancestors of at least some of the original inhabitants of the New World. I have the Jomon measurements to test this possibility, but in order to do so effectively I need a full range of New World specimens. Because of its age, completeness, geographic origin and apparent morphology, the Kennewick skeleton could be a critical component to such an analysis.
 - The Kennewick skeleton also could be important for what it might tell us about the relationships between and among the other early skeletons that are already in my database. The existing sample of early New World skeletons older than 8500 years BP (i.e., Before Present) is extremely small.

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My database, for example, contains complete measurements on no such specimens and partial measurements on only 6 more. The presently known sample of Asian skeletons from the period between 8,500 and 30,000 BP is equally small, and most of the existing specimens come from Japan. Because we have so few specimens from this entical time period in human evolution, each new discovery is significant. Each new specimen has the potential to reveal new patterns (or new variations) in the fossil record, thereby affecting how we view the similarities or dissimilarities between early human populations. In my own research, I have seen how the addition of a new specimen (or a new population) to my database can result in a reordering of the statistical affinities between a number of different populations. Sometimes these changes are significant as they can result in the generation of new hypothesis or questions for further research. Because of its apparent morphological characteristics, the Kennewick skeleton has the potential to

- The government's refusal to permit access to this skeleton has also had an impact on my ability to publish the results of my research. In January of this year, an article written by myself and my research colleague Dr. Russell Nelson was rejected by a leading science journal without even having been subjected to the normal process or peer review. Our manuscript deals with the Asian ancestry of New World native populations and represents approximately two and a half years of work by myself and Dr. Nelson. It was rejected by the journal's in-house editorial staff on the grounds it is more appropriate for a specialized publication rather than a general scientific audience. I believe our manuscript would have been accepted by this journal if we had been able to include Kennewick Man in the samples used in our analysis. In the past, this particular journal has regularly published matters relating to Kennewick Man. Although Dr. Nelson and I intend to redraft our manuscript for submission to another journal, doing so will push back our publication schedule by at least another year (if not longer). 23 24
 - The resulting delay in publishing our manuscript will affect my work in many ways. Among other things, publication of peer reviewed articles helps to enhance a scientist's reputation and

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ability to obtain grants and other research funding. I and my colleagues and students currently have a number of projects underway or in planning for which funding is needed. Access to the Kennewick skeleton and publication of related articles would undoubtedly help to enhance our ability to obtain the needed funds. For example, Dr Nelson intends to undertake a research trip to Mongolia to measure historic and prehistoric skeletons in the collections there. This project is directly relevant to my research as it will obtain measurements from a part of Asia currently underrepresented in my database. One of his grant proposals for funding for his trip to Mongolia was recently turned down. I believe he would have obtained

- the grant if his application had included comparative data on the Kennewick skeleton. Publication of peer reviewed articles also plays a critical role in the refinement of techniques and theories. Peer reviewed articles allow a scientist to receive feedback from other members of the scientific community around the world. Such feedback can help to improve interpretations, uncover potential flaws in methods or conclusions, and point the way to new questions to be investigated. The longer this feedback process is delayed the greater the impact on a scientist's ability to take his or her research to new levels of investigation and explanation.
 - Denial of access to the Kennewick skeleton also has an impact on my teaching. professor's ability to teach is directly related to the quantity and quality of the information he or she has to work with. Without access to the Kennewick skeleton, I can only speculate with my students about what this specimen might mean for the peopling of the Americas. I cannot help them to test these speculations or generate the new ideas that might be stimulated by study of the skeleton. Restrictions on knowledge do not benefit the education of new scientists.
 - I will be seventy in another year, and I am beginning to run out of years. I have spent two decades of my life developing my research on the biological relationships of Pacific Rim populations, and I do not have twenty more years of active career left to me. Every year that I am denied access to the Kennewick skeleton represents another loss of productive time that I can never make up.

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- The studies conducted by defendants' study team are not an adequate substitute for examination of the skeleton by myself and other interested scientists. While I respect the professional competence of Dr. Powell, my database includes measurements that he does not normally take. To ensure data accuracy, those measurements should be taken by someone familiar with the particular techniques involved. In addition, my database includes a broad range of prehistoric and modern samples from Asia and the Pacific. These have taken several decades to accumulate in Asian and European collections, and provide a comparative perspective not yet available to the others who are interested in the issues involved. It is important that the interpretation of the skeleton be based upon as many different perspectives as possible. The history of physical anthropology is replete with examples of situations where re-examination of a skeleton has led to new insights or interpretations of the skeleton's significance. Some examples include: T.D. Stewart's reinterpretation of the Neanderthal skeletons from Shanidar Cave in Iraq; Ronald Singer's reassessment of the significance of the Saldanha skull in South Africa; D. Gentry Steele's 12 reappraisal of the variability of the early New World skeletons, and my own reassessment of the inhabitants 13 of Jomon Japan as the ancestors of the living Ainu but not of the living Japanese. Re-examination of 14 specimens and reassessment of interpretations are essential to the scientific process. 15 crosschecks, science would become political or religious dogma and we could never have confidence in the 16 17 validity of our explanations of the fossil record. 18
 - The databases compiled by myself and the other members of plaintiffs' study team are the most comprehensive and powerful tools available for assessing the biological affinities of Kennewick Man. Each adds something unique or special to the assessment, either in terms of the data used or the populations available for comparison The government's refusal to take advantage of these resources is an unexplainable

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mystery to me. Surely the pursuit of understanding is best served by allowing full access to the skeleton rather than restricting it to just a chosen few. 1999. 2 DATED this 16 day of July 3 C. Loring Brace SUBSCRIBED and SWORN to before me this 16+6ay of 5 6 7 Notary Public for Michigan My Commission Expires: 8 SUSAN F. CAMPBELL Notary Public, Washtramen County, M. 9 My Commission Expires Nov. 20, 1999 10 11 .2 13 14 15 16 17 18 19 20 21 **Z**2 23 24 25

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08/04/99 11:31 BARRAN-LIEBMAN

> STATE OF OREGON) ss.) County of Multnomah

I, Tamara L. Thorud, being duly sworn, depose and say: (1) I am a competent person over the age of 18 years and am not a party nor an attorney in the proceeding entitled Bonnichsen, et al v. United States of America, et al in the United States District Court for the District of Oregon and bearing docket number CV98-635-JE in said court; (2) I am a person regularly employed by Barran Liebman LLP, with offices at 520 SW Yamhill Street, Suite 600, Portland, Oregon 97204, who are attorneys for plaintiffs in said proceeding; (3) On August 3, 1999, I served the foregoing document upon defendants in said proceeding by mailing a copy thereof to the attorney(s) for said parties at the last known address:

Timothy W. Simmons, Esq. (via facsimile & mail) Michael T. Clinton Assistant U.S. Attorney U.S. Attorney's Office 1000 S.W. 3rd Ave., Suite 600 Portland, Oregon 97204-2902

520 SW Yamhill, Ste. 400 Portland, OR 97204 Attorney for Asatru Folk Assembly

Allison Rumsey (via facsimile & UPS) U.S. Department of Justice Office of the Assistant General Counsel 950 Penn. Ave., NW, Room 2740 Washington, D.C. 20530-0001 Attorneys for federal defendants

David Cummings Douglas Nash Nez Perce Tribal Executive Committee P.O. Box 305 Lapwai, ID 83540 Attorneys for Nez Perce Tribe

Daniel Hester Fredericks Pelcyger, et al 1075 South Boulder Road, Ste 305 Louisville, CO 80027 Attorneys for Umatilla Indian Reserve

Signed and swom to before me this 3 rd day of August, 1999.

OFFICIAL SEAL LINDA DE HACKBER OTARY PUBLIC - OREGON COMMISSION NO 047638 COMMISSION EXPIRES NOV. 16, 1999

Notary Public for Oregon My commission expires: _11-16-99

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