BILLING CODE 3510-DS-P

DEPARTMENT OF COMMERCE

International Trade Administration

The Association of Universities for Research in Astronomy, et al.

Notice of Consolidated Decision on Applications for Duty-Free Entry of Scientific Instruments

This is a decision pursuant to Section 6(c) of the Educational, Scientific, and Cultural Materials Importation Act of 1966 (Pub. L. 89-651, as amended by Pub. L. 106-36; 80 Stat. 897; 15 CFR part 301). Related records can be viewed between 8:30 A.M. and 5:00 P.M. in Room 3720, U.S. Department of Commerce, 14th and Constitution Avenue, N.W., Washington, D.C.

Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as each is intended to be used, that was being manufactured in the United States at the time of its order.

Docket Number: 13-052. Applicant: The Association of Universities for Research in Astronomy, Tucson, AZ 85719. Instrument: Enclosure control system for the Advanced Technology Solar Telescope. Manufacturer: AEC Engineering, part of the IDOM Group, Spain. Intended Use: See notice at 79 FR 6888, February 5, 2014. Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to understand the nature of transient solar events which affect life on Earth by employing techniques such as augmenting pointing control of the Telescope at the Sun and augmenting control over the thermal environment during operational use. During normal sun-tracking operations, the Enclosure accessory shall provide complete protection of the Telescope (except for the M1 Assembly) from incoming solar radiation (insolation), the Enclosure accessory shall provide an unobstructed optical path from the Sun to the M1 Assembly when the carousel and shutters are in any position within

their allowable ranges of travel, and the Enclosure accessory skin shall be insulated to the extent required to ensure that the interior surface temperature can be maintained at $+0^{0}F/-3.5^{0}$ relative to ambient temperature while the exterior skin temperature is at ambient minus $7.2^{0}F$ in all operational conditions.

Docket Number: 13-054. Applicant: Regents of the University of Minnesota, School of Physics and Astronomy, Minneapolis, MN 55455-0149. Instrument: Yanus IV Laser Scan Head. Manufacturer: Till Photonics, Germany. Intended Use: See notice at 79 FR 6888, February 5, 2014. Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to study the oligomeric state of EGFP tagged Retenoid X Receptor (RXR-EGFP) in the absence and presence of its ligand by PCH analysis, as well as follow its binding to DNA and other nuclear factors by conventional and scanning fluorescence correlation spectroscopy (FCS). The laser beam is continuously scanned

in a circular fashion, which shows peaks and valleys which add contrast and give information about the scan radius, diffusion coefficient and particle concentrations that would be absent in conventional FCS. Conventional scan heads for laser microscopy have a finite distance between their scan axes, which introduces aberrations and vignetting into the scan. These distortions in the point spread function prohibit the quantitative imaging experiments. The Yanus IV scan head has been engineered with an effective zero optical distance between the scan axes, which maintains diffraction-limited performance across the entire scan field. This is the only instrument with zero effective optical distance between the scan axes.

Supriya Kumar
Acting Director
Subsidies Enforcement Office
Enforcement and Compliance

May 22, 2014_
Date

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