LETTER OF ASSURANCE FOR ESSENTIAL PATENT CLAIMS 1 2 3 PatCom Administrator, IEEE-SA Standards Board Patent Committee Please return via mail. 4 e-mail (as a PDF), or fax: Institute of Electrical and Electronics Engineers, Inc. 5 445 Hoes Lane 6 Piscataway, NJ 08854 USA 7 FAX (+1 732-875-0524) e-mail: patcom@ieee.org 8 9 No license is implied by submission of this Letter of Assurance 10 A. SUBMITTER: 11 12 Legal Name: ("Submitter") 13 14 **B. SUBMITTER'S CONTACT INFORMATION:** 15 16 17 Contact Name/Title: _____ 18 Department: ____ 19 20 21 URL: 22 Note: The IEEE does not review and does not endorse the contents nor confirms the continuing accuracy or 23 24 consistency of any contact information or web site listed above. 25 26 C. (PROPOSED) IEEE STANDARD OR PROJECT (AMENDMENT, CORRIGENDA, REVISION): 27 28 The scope of this licensing position is limited to the following: 29 30 31 Title: 32 33 D. SUBMITTER'S POSITION REGARDING LICENSING OF ESSENTIAL PATENT CLAIMS: 34 35 In accordance with Clause 6 of the IEEE-SA Standards Board Bylaws, the Submitter hereby declares the following 36 (check box 1 or box 2): 37 38 Note: Nothing in this Letter of Assurance shall be interpreted as giving rise to a duty to conduct a patent search. 39 The IEEE takes no position with respect to the validity or essentiality of Patent Claims or the reasonableness of 40 rates, terms, and conditions of any license agreements offered by the Submitter. 41 42 The Submitter MAY have the ability to license Patent Claims that might become Essential Patent Claims. With respect to any Patent Claim that becomes an Essential Patent Claim, the Submitter's licensing 43 position is as follows (check A, B, C, or D and any applicable subordinate boxes): 44 45 A. The Submitter will grant a license without compensation to an unrestricted number of applicants on a worldwide basis with reasonable terms and conditions demonstrably free of unfair 46 discrimination to implement the [Proposed] IEEE Standard. 47 48 (Optional) A sample of such a license (or material licensing terms) that is substantially similar 49 to what the Submitter would issue is attached. ☐ B. The Submitter will grant a license under reasonable rates to an unrestricted number of applicants 50 on a worldwide basis with reasonable terms and conditions demonstrably free of unfair 51 52 discrimination to implement the [Proposed] IEEE Standard. These reasonable rates will not exceed _______(e.g. percent of product 53 54 price, flat fee, per unit) (optional). 55 (Optional) A sample of such a license (or material licensing terms) that is substantially similar 56 to what the Submitter would issue is attached.

[C. The Submitter without conditions will not enforce any of its present or future Essential Patent Claims, in regards to a compliant implementation of the [Proposed] IEEE Standards, against any person or entity making, using, selling, offering to sell, importing, distributing or implementing such a compliant implementation.
[D. The Submitter is unwilling to grant licenses according to the provisions of either A or B above or to agree that it will not enforce its Essential Patent Claims as described in part C above.
S the eff S or S received the	fter a reasonable and good faith inquiry, the Submitter is NOT AWARE of any Patent Claims that the ubmitter may own, control or have the ability to license that might become Essential Patent Claims. For nese purposes, a Submitter can demonstrate "a reasonable and good faith inquiry" by using reasonable fforts to identify and contacted those individuals who are from, employed by or otherwise represent the ubmitter and who are known to the Submitter to be current or past participants in the development proces of the [Proposed] IEEE Standard identified in item C above, including, but not limited to, participation in a ponsor-Ballot or Working Group. If the Submitter did not or does not have any participants, then "a reasonable and good faith inquiry" can be demonstrated by reasonable efforts to contact individuals who are Submitter believes are most likely to have knowledge about the technology covered by the [Proposed] IEEE Standard or knowledge of possible Essential Patent Claims.
E. SCOP	E OF ASSURANCE
Note: Con	nplete this section only if box D.1 above is checked.
1.	When checked, this Letter of Assurance only applies to the Patent Claims below that become Essential Patent Claims. (If no Patent Claim is identified below, then this Letter of Assurance applies to all Essential Patent Claims supported by the disclosure in the patent or patent applications listed below.) blication/Docket Number:
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	plication/Docket Number:
	plication/Docket Number:
For addition	onal patents, use additional pages, as necessary.
2.	When checked, this is a Blanket Letter of Assurance. As such, all Essential Patent Claims that the Submitter may currently or in the future have the ability to license shall be available under the terms as indicated above in D.1; however, a Blanket Assurance shall not supersede any pre-existing or simultaneously submitted assurance identifying a specific Patent Claim.
F. APPLI	ICATION TO AFFILIATES
With respe	ect to any Essential Patent Claims that may be owned or controlled by an Affiliate, the Submitter agrees

With respect to any Essential Patent Claims that may be owned or controlled by an Affiliate, the Submitter agrees that (i) the licensing statements described in parts D and E above apply to any Essential Patent Claims that may be owned or controlled by an Affiliate; and (ii) the terms of this letter are binding on each such Affiliate; provided, however, that such commitments shall not apply to Affiliates identified below:

	Organization's Name
Address	Address
Contact person	Contact person
For additional Affiliates, use additional p	pages as necessary.
G. SIGNATURE:	
(other than those Affiliates excluded aboracknowledge that users and implemented upon and may seek enforcement of the teal Affiliates excluded above) agrees not to seek enforcement of the teal above.	represent that you have the authority to bind the Submitter and all Afve) to the representations and commitments provided in this letter and is of the [Proposed] IEEE Standard identified in part C above are relyerms of this letter. The Submitter and all Affiliates (other than those sell or otherwise transfer any rights in any Essential Patent Claims that venting or negating any of the representations and commitments made
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Print name of authorized person:	
Title of authorized person:	
Signature of authorized person:	Date:
	ate of the standard's approval to the date of the standard's withdrawa EEE-SA Standards Board Patent Committee.

terms and definitions set forth in the IEEE Patent Policy, Standards Board By-Laws and Standards Board Operations Manual in effect as of the date of this Letter of Assurance are incorporated herein.

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