

Compatibility Analysis

The following general equation will be used to calculate the received interference power at the input of a receiver:²⁴

$$PR = PT + GT + GR - LP - LT - LR - LC - LA - LPol - FDR (1)$$

where:

- PT is the transmitter power (dBm);
- EIRP is the equivalent isotropically radiated power of the transmitter (dBm); GT is the transmitter antenna gain in the direction of the receiver (dBi);
- GR is the receiver antenna gain in the direction of the receiver (dBi); LP is the basic transmission loss, in the absence of clutter (dB);
- LT is the transmitter cable/insertion losses (dB); LR is the receiver cable/insertion losses (dB); LC is the clutter loss (dB);
- LA is the atmospheric loss (dB);
- LPol is the polarization loss (dB); and
- FDR is the Frequency Dependent Rejection (dB)

The compatibility analysis only considers single-entry interference. If operators mutually agree to do so, they may consider aggregate interference.

The computed receiver interference power will be compared to interference criteria to determine whether there is compatibility. The operators may exchange the interference threshold exceedance once the analysis is complete.

The amount in dB that the calculated interference from Equation 1 exceeds the interference criteria specified in Table 2 will

be exchanged between the Federal and non-federal users.

Antenna Models

Measured antenna patterns are preferred and should be used whenever available; in their absence, the operators may use modeled antenna patterns provided by the manufacturer, or a model that estimates the antenna pattern.²⁵

Propagation Model

To calculate the propagation loss, operators may mutually agree to apply proprietary propagation models, actual measurement data, or other environmental data, consistent with good engineering practices. Both operators must agree on and accept the results of the analysis performed using the agreed-upon methodology. The Phase 2 coordination analysis should not consider worst-case conditions unless otherwise justified.

Coordinating parties may consider the use of open-source propagation models such as ITM and ITU-R P.676.²⁶ Annex 1 of this document contains the suggested propagation model inputs and application descriptions.

Clutter Loss Model

The operators may mutually agree to use proprietary clutter loss and building height databases. Operators may also consider using ITU-R P.2108, an open-source statistical clutter loss model.

Variation Acceptance in Analysis Results

Using the methodology in this document, it is possible for both operators to produce different analysis results if they choose to implement each model individually. Therefore, the operators are encouraged to exchange analysis results to resolve differences. The FCC and NTIA will establish a dispute resolution process through which operators can discuss their analyses and adjudicate disputes through NTIA and the FCC.

Annex 1

This section provides a brief description of public models that can be used to calculate propagation loss, LP in equation 1. The models herein assume all operations are outdoor and all transmitters and receivers have fixed antenna heights.

ITM + ITU R P. 676

Application

This model might be used to calculate the propagation loss for paths in suburban and rural environments. ITM requires an array of terrain elevations as an input. A terrain database and terrain elevation extraction methods will be required to obtain the terrain elevations. ITM only considers bare-earth obstruction without any building, vegetation or other material clutter losses.

Source Code

NTIA/itm: *The Irregular Terrain Model (ITM)* (github.com)

TABLE 1—ITM INPUT PARAMETERS

Parameter	Value
Frequency	Operating Frequency (GHz).
Mode	Terrain Dependent.
Transmitter Antenna Height (Above Ground Level)	Provided by Applicant.
Reference Receiver Antenna Height (Above Ground Level)	Point-to-Multipoint: 10 meters Base-to-Mobile: 1.5 meters Point-to-Point: Provided by Applicant.
Transmitter Location	Latitude (Decimal Degrees) and Longitude (Decimal Degrees).
Mode of Variability	Single Message.
Surface Refractivity	301 N-Units.
Dielectric Constant of Ground	15.
Radio Climate	Continental Temperate.
Reliability	50%.
Confidence	50%.

TABLE 3—ITU-R P.676 INPUT PARAMETERS

Parameter	Value
Frequency	37 GHz.
Air Temperature	23 C.
Surface Atmospheric Pressure.	1013.25 hPa.
Ground-level Water Vapor Density.	7.5 g/m3.

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²⁴ The link budget analysis approach used is described in Joint Spectrum Center, JSC–CR–10–004, *Communications Receiver Performance Degradation Handbook* (Aug. 11, 2010), Section 2,

GENERAL SERVICES ADMINISTRATION

[OMB Control No. 3090–0205; Docket No. 2024–0001; Sequence No. 9]

Information Collection; General Services Administration Acquisition Regulation (GSAR); Hazardous Material Information

AGENCY: Office of Acquisition Policy, General Services Administration (GSA).

available at <https://www.ntia.doc.gov/files/ntia/publications/jsc-cr-10-004final.pdf>.

²⁵ For an active Advanced Antenna System (AAS) in the lower 37 GHz band ITU-R M.2101 contains a possible antenna model for a single element and

ACTION: Notice and request for comments.

SUMMARY: In accordance with the Paperwork Reduction Act of 1995, and the Office of Management and Budget (OMB) regulations, GSA invites the public to comment on a request to review and approve an extension of a previously approved information collection requirement regarding Hazardous Material Information.

composite pattern. For non-AAS, ITU-R F.1336 may be considered.

²⁶ ITU-R P.452 is another open-source propagation model that can be implemented if both parties agree to it.

DATES: Submit comments on or before: October 28, 2024.

ADDRESSES: Submit comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to <http://www.regulations.gov>. Submit comments via the Federal eRulemaking portal by searching the OMB control number. Select the link “Comment Now” that corresponds with “Information Collection 3090–0205, Hazardous Material Information.” Follow the instructions provided on the screen. Please include your name, company name (if any), and “Information Collection 3090–0205, Hazardous Material Information” on your attached document.

If your comment cannot be submitted using [regulations.gov](http://www.regulations.gov), call or email the points of contact in the **FOR FURTHER INFORMATION CONTACT** section of this document for alternate instructions.

Instructions: Please submit comments only and cite Information Collection 3090–0205, Hazardous Material Information, in all correspondence related to this collection. Comments received generally will be posted without change to [regulations.gov](http://www.regulations.gov), including any personal and/or business confidential information provided. To confirm receipt of your comment(s), please check [regulations.gov](http://www.regulations.gov), approximately two-to-three business days after submission to verify posting.

FOR FURTHER INFORMATION CONTACT: Ms. Adina Torberntsson, Procurement Analyst, GSA Acquisition Policy Division, via telephone at 720–475–0568, or via email at adina.torberntsson@gsa.gov.

SUPPLEMENTARY INFORMATION:

A. Purpose

The Federal Hazardous Substance Act and Hazardous Material Transportation Act prescribe standards for packaging of hazardous substances. To meet the requirements of the Acts, the General Services Administration Regulation prescribes provision 552.223–72, Hazardous Material Information, to be inserted in solicitations and contracts that provides for delivery of hazardous materials on a Free On Board (FOB) origin basis.

This information collection will be accomplished by means of the provision which requires the contractor to identify for each National Stock Number (NSN), the DOT Shipping Name, Department of Transportation (DOT) Hazards Class, and whether the item requires a DOT label. Contracting Officers and technical personnel use the information to monitor and ensure contract

requirements based on law and regulation.

Properly identified and labeled items of hazardous material allows for appropriate handling of such items throughout GSA’s supply chain system. The information is used by GSA, stored in an NSN database and provided to GSA customers. Non-Collection and/or a less frequently conducted collection of the information resulting from GSAR provision 552.223–72 would prevent the Government from being properly notified. Government activities may be hindered from notifying their employees of; (1) All hazards to which they may be exposed; (2) Relative symptoms and appropriate emergency treatment; and (3) Proper conditions and precautions for safe use and exposure.

B. Annual Reporting Burden

Respondents: 563.

Responses per Respondent: 3.

Total Responses: 1,689.

Hours per Response: .5.

Total Burden Hours: 844.5.

C. Public Comments

Public comments are particularly invited on: Whether this collection of information is necessary, whether it will have practical utility; whether our estimate of the public burden of this collection of information is accurate, and based on valid assumptions and methodology; ways to enhance the quality, utility, and clarity of the information to be collected; and ways in which we can minimize the burden of the collection of information on those who are to respond, through the use of appropriate technological collection techniques or other forms of information technology.

Obtaining Copies of Proposals: Requesters may obtain a copy of the information collection documents from the GSA Regulatory Secretariat Division, by calling 202–501–4755 or emailing GSARegSec@gsa.gov. Please cite OMB Control No. 3090–0205, Hazardous Material Information, in all correspondence.

Jeffrey A. Koses,

Senior Procurement Executive, Office of Acquisition Policy, Office of Government-wide Policy.

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GENERAL SERVICES ADMINISTRATION

[OMB Control No. 3090–0262; Docket No. 2024–0001; Sequence No. 6]

Submission for OMB Review; of Products With Environmental Attributes

AGENCY: Office of Acquisition Policy, General Services Administration (GSA).

ACTION: Notice.

SUMMARY: Under the provisions of the Paperwork Reduction Act the Regulatory Secretariat Division will be submitting to the Office of Management and Budget (OMB) a request to review and approve an extension of an information collection requirement regarding identification of products with environmental attributes.

DATES: *Submit comments on or before:* September 26, 2024.

ADDRESSES: Written comments and recommendations for this information collection should be sent within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under Review—Open for Public Comments”, or by using the search function.

FOR FURTHER INFORMATION CONTACT: Ms. Adina Torberntsson, Program Analyst, General Services Acquisition Policy Division, GSA, via email to adina.torberntsson@gsa.gov or 720–475–0568.

SUPPLEMENTARY INFORMATION:

A. Purpose

The General Services Administration requires contractors holding Multiple Award Schedule Contracts to identify in their GSA price lists those products that they market commercially that have environmental attributes in accordance with GSAR clause 552.238–78. The identification of these products will enable Federal agencies to maximize the use of these products and meet the responsibilities expressed in statutes and executive order.

B. Annual Reporting Burden

Respondents: 934.

Responses per Respondent: 1.

Annual Responses: 934.

Hours per Response: 1.

Total Burden Hours: 934.

C. Public Comments

A 60-day notice was published in the **Federal Register** at 89 FR 52052 on June 21, 2024. No comments were received.

Obtaining Copies of Proposals: Requesters may obtain a copy of the