

Posting Date: January 24, 2024

Closing Date: February 3, 2024 11:30 a.m ET

Reference Number: 24-014610

To: NCI Bid Board

From: Morgan Oliver
NCI CCR P-ARC
morgan.oliver@nih.gov

Subject: NCI Bid Board Posting – mRNA and lncRNA sequencing analysis after radiation using Human quad liver organ on a chip

The Radiation Oncology Branch (ROB) exists to plan and conduct pre-clinical and clinical research on the biologic and therapeutic effects of radiation administered alone or in combination with other modalities of treatment; to develop novel technology and imaging based approaches for radiation oncology; to investigate the natural history of disease to understand and evaluate means of diagnostic assessment for the purpose of optimizing treatment selections; and to provide radiation therapy as well as general oncology consultations for patients admitted to other NIH Clinical Research Center (CRC) clinical services, in a collaborative approach.

The primary objective is based on the molecular profiling study with liver co-culture organ on a chip model the lab is proposing a mitigation study using liver quad culture model to identify clinically relevant drugs which would mitigate the radiation-induced effects. In order to do this, whole genome sequencing analysis below with these steps are highly need for Radiation Oncology Branch for selection of mitigators for radiation injury.

The National Cancer Institute, The Radiation Oncology Branch (ROB) is requesting mRNA and lncRNA sequencing analysis after radiation using Human quad liver organ on a chip from Novogene Corp Inc, Sacramento, CA. This is not a request for competitive quotations. However, if any interested party believes it can meet the attached requirements, it may submit a statement of capabilities. The capability statement must be in writing and must contain information and material in sufficient detail to allow NCI to determine if the party can fully meet this requirement. The capability statement must be received in the contracting office by 11:30 AM on February 3, 2024 ET. A determination by the Government not to compete this requirement based upon responses to this notice is solely within the discretion of the Government. Information received will be considered solely for the purpose of determining whether to conduct a competitive procurement.

Source Justification:

A market research was conducted and it was found that no other vendors have the capability of providing the required service. To ensure consistency with the prior experiments in the liver co-culture model, it is essential to use Novogene's service again. This will allow for easier backwards comparison of data with previous results. There are no other commercially available companies with this specific expertise, commitment to technical excellence and staff with the highest qualifications who have a clear understanding of our current and ongoing projects. Whole genome sequencing analysis from Novogene has been unparalleled with respect to quality control, accuracy, and reproducibility compared to all other tested platforms.

Attached Documents:

SF18

Statement of Work

52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.

FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (JAN 2014) is applicable and available in full text upon request

REQUEST FOR QUOTATION <i>(THIS IS NOT AN ORDER)</i>		THIS RFQ <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE			PAGE OF PAGES 1 1	
1. REQUEST NUMBER POTS 24-014610	2. DATE ISSUED 01/24/20243	3. REQUISITION/PURCHASE REQUEST NUMBER POTS 24-014610		4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING	
5a. ISSUED BY				6. DELIVER BY (Date) 02/18/2025		
5b. FOR INFORMATION CALL (NO COLLECT CALLS)				7. DELIVERY		
NAME Morgan Oliver		TELEPHONE NUMBER		<input type="checkbox"/> FOB DESTINATION <input checked="" type="checkbox"/> OTHER (See Schedule) 9. DESTINATION		
		AREA CODE 240		NUMBER 760-6147		a. NAME OF CONSIGNEE Molykutty Aryankalayil 2301-496-1083
8. TO:				b. STREET ADDRESS 10 Convent Drive, Rm B3 B406		
a. NAME		b. COMPANY Novogene Corp, Incc		c. CITY Bethesda		
c. STREET ADDRESS 2921 Stockton Blvd. Suite 1810				d. STATE MD		
d. CITY Sacramento		e. STATE CA	f. ZIP CODE 95817	e. ZIP CODE 20892		
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 02/03/2024						
IMPORTANT: This is a request for information and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter.						
11. SCHEDULE (Include applicable Federal, State and local taxes)						
ITEM NUMBER (a)	SUPPLIES/SERVICES (b)		QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
1	Human IncRNA-seq - RNA sample QC Customized library preparation, NovaSeq PE150 (6 G raw data per sample)		50			
	Standard Analysis FTP		1			
	Notice of Intent: If submitting capability statement, please e-mail only 1 copy of the technical capability statement to Viviane Rivera at viviane.rivera@nih.gov See attachment statement of work. This will be awarded as a Firm-Priced Contract.					
12. DISCOUNT FOR PROMPT PAYMENT			a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS
					0.00	NUMBER PERCENTAGE
NOTE: Additional provisions and representations <input type="checkbox"/> are <input type="checkbox"/> are not attached.						
13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER						
b. STREET ADDRESS			16. SIGNER			
c. COUNTY			a. NAME (Type or print)		b. TELEPHONE	
d. CITY			c. TITLE (Type or print)		AREA CODE	
e. STATE		f. ZIP CODE			NUMBER	

STATEMENT OF WORK (SOW)

Instructions: This document should be used for the acquisition of SERVICES. Instructions (and sample language) for completion are in red, and should be excluded from the completed document.

1.0 TITLE

MicroRNA, mRNA and lncRNA sequencing analysis after radiation using Human quad liver organ on a chip

2.0 BACKGROUND

Background: Radiation induced injury to the normal liver tissue is a limiting factor in the application of radiation therapy for the treatment of liver cancers. In a previous study from our lab, liver was identified as the most radiation-affected organ in whole body irradiated Gottingen minipigs in terms of gene expression profiles. The liver-on-a-chip model mimics the complexity of the organ. These chips could be seeded with all the four major liver cell populations- hepatocytes, Kupffer cells, stellate cells, and liver sinusoidal endothelial cells (LSECs). The advantages offered are many. Besides being ethical to use, chip platform also offers the advantage of studying the interaction of the liver specific cells without interference from systemic effects that could not be controlled in a live animal. These are most well suited to perform initial drug screenings and establish optimal and most-effective concentrations. Small RNA sequencing and mRNA/lncRNA sequencing will provide a completer molecular profile for selecting the mitigators for radiation injury. So whole genome sequencing analysis is highly relevant for the liver quad culture mitigation study.

2.1 OBJECTIVE

Based on the molecular profiling study with liver co-culture organ on a chip model we are proposing a mitigation study using liver quad culture model to identify clinically relevant drugs which would mitigate the radiation-induced effects. Inorder to do this, whole genome sequencing anlysi below with these steps are highly need for Radiation Oncology Branch for selection of mitigators for radiation injury .

1. Preparation of cDNA libraries
2. RNA QC before and after library prepration
3. Performing RNA seq on Illumina platform
4. Obtaining 20 million reads/sample
5. Aligning the reads to reference genome for data analysis

With this data, the NCI will identify biomarker signatures of radiation exposure and of organ-specific radiation injury.

STATEMENT OF WORK (SOW)

3.0 SCOPE

This project is a multi-step process with each step dependent on the successful completion of the former. The process starts with a quality check of the RNA and follows with sequential steps of rRNA depletion, globin RNA depletion, adapter ligation, cDNA preparation, sample purification and QC, reading on an Illumina platform, aligning reads to a reference genome, and finally data clean-up and analysis for identifying differentially expressed coding and non-coding RNAs.

4.0 CONTRACT REQUIREMENTS/ AND PERSONNEL QUALIFICATIONS

The contractor shall perform the following tasks:

- 4.1 mRNA and lncRNA sequencing
 - 4.1.1 Total RNA sample quality control
 - 4.1.1.1 Nanodrop: tests RNA purity
 - 4.1.1.2 Agarose Gel Electrophoresis: tests RNA degradation and potential contamination
 - 4.1.1.3 Agilent 2100: checks RNA integrity
 - 4.1.2 Library Construction
 - 4.1.2.1 rRNA removal
 - 4.1.2.2 Fragmentation
 - 4.1.2.3 cDNA synthesis
 - 4.1.2.4 Adapter ligation
 - 4.1.2.5 Size selection
 - 4.1.2.6 PCR enrichment
 - 4.1.3 Library Quality Control
 - 4.1.3.1 Qubit 2.0 fluorometer
 - 4.1.3.2 Agilent 2100
 - 4.1.3.3 Quantitative PCR
 - 4.1.4 Sequencing using Illumina platforms
 - 4.1.5 Data Analysis
 - 4.1.5.1 Quality control
 - 4.1.5.2 Read mapping to reference genome

5.0 TYPE OF ORDER

This is a firm fixed price purchase order.

6.0 PERIOD OF PERFORMANCE

2/19/24-2/2/18/25

7.0 PLACE OF PERFORMANCE: 2921 Stockton Blvd. Suite 1810, Sacramento CA 95817

STATEMENT OF WORK (SOW)

8.0 REPORT(S)/DELIVERABLES AND DELIVERY SCHEDULE

DELIVERABLE	DELIVERABLE DESCRIPTION / FORMAT REQUIREMENTS	DUE DATE
#1	Whole genome mRNA/lncRNA sequencing experiment	Within 12 weeks after award

9.0 PAYMENT

Payment shall be made once. Payment authorization requires submission and approval of invoices to the COR and NIH OFM, in accordance with the attached payment provisions listed below:

The following clause is applicable to all Purchase Orders, Task or Delivery Orders, and Blanket Purchase Agreement (BPA) Calls: PROMPT PAYMENT (JUL 2013) FAR 52.232-25.

Highlights of this clause and NIH implementation requirements follow:

I INVOICE REQUIREMENTS

A. An invoice is the Contractor's bill or written request for payment under the contract for supplies delivered or services performed. A proper invoice is an "Original" which must include the items listed in subdivisions 1 through 12, below, in addition to the requirements of FAR 32.9. If the invoice does not comply with these requirements, the Contractor will be notified of the defect within 7 days after the date the designated billing office received the invoice (3 days for meat, meat food products, or fish, and 5 days for perishable agricultural commodities, dairy products, edible fats or oils) with a statement of the reasons why it is not a proper invoice. (See exceptions under II., below.) Untimely notification will be taken into account in the computation of any interest penalty owed the Contractor.

1. Vendor/Contractor: Name, Address, Point of Contact for the invoice (Name, title, telephone number, e-mail and mailing address of point of contact).
2. Remit-to address (Name and complete mailing address to send payment).
3. Remittance name must match exactly with name on original order/contract. If the Remittance name differs from the Legal Business Name, then both names must appear on the invoice.
4. Invoice date.
5. Unique invoice #s for all invoices per vendor regardless of site.
6. NBS document number formats must be included for awards created in the NBS: Contract Number; Purchase Order Number; Task or Delivery Order Number and Source Award Number (e.g., Indefinite Delivery Contract number; General Services Administration number); or, BPA Call Number and BPA Parent Award Number.

STATEMENT OF WORK (SOW)

7. Data Universal Numbering System (DUNS) or DUNS + 4 as registered in the Central Contractor Registration (CCR).
8. Federal Taxpayer Identification Number (TIN). In those exceptional cases where a contractor does not have a DUNS number or TIN, a Vendor Identification Number (VIN) must be referenced on the invoice. The VIN is the number that appears after the contractor's name on the face page of the award document.
9. Identify that payment is to be made using a three-way match.
10. Description of supplies/services that match the description on the award, by line billed.*
11. Freight or delivery charge must be billed as shown on the award. If it is included in the item price do not bill it separately. If identified in the award as a separate line item, it must be billed separately.
12. Quantity, Unit of Measure, Unit Price, Extended Price of supplies delivered or services performed, as applicable, and that match the line items specified in the award.*

* NOTE: If your invoice must differ from the line items on the award, please contact the Contracting Officer before submitting the invoice. A modification to the order or contract may be needed before the invoice can be submitted and paid.

- B. Shipping costs will be reimbursed only if authorized by the Contract/Purchase Order. If authorized, shipping costs must be itemized. Where shipping costs exceed \$100, the invoice must be supported by a bill of lading or a paid carrier's receipt.
- C. Mail an original and 1 copy of the itemized invoice to:

National Institutes of Health
Office of Financial Management, Commercial Accounts
2115 East Jefferson Street, Room 4B-432, MSC 8500
Bethesda, MD 20892-8500

For inquiries regarding payment call: (301) 496-6088

In order to facilitate the prompt payment of invoices, it is recommended that the vendor submit a photocopy of the invoice to the "Consignee" designated for the acquisition in blocks 6A – 6E of the face page of the Order/Award document.

II. INVOICE PAYMENT

- A. Except as indicated in paragraph B., below, the due date for making invoice payments by the designated payment office shall be the later of the following two events:
 1. The 30th day after the designated billing office has received a proper invoice.
 2. The 30th day after Government acceptance of supplies delivered or services performed.

STATEMENT OF WORK (SOW)

- B. The due date for making invoice payments for meat and meat food products, perishable agricultural commodities, dairy products, and edible fats or oils, shall be in accordance with the Prompt Payment Act, as amended.

III. INTEREST PENALTIES

- A. An interest penalty shall be paid automatically, if payment is not made by the due date and the conditions listed below are met, if applicable.
 - 1. A proper invoice was received by the designated billing office.
 - 2. A receiving report or other Government documentation authorizing payment was processed and there was no disagreement over quantity, quality, or contractor compliance with a term or condition.
 - 3. In the case of a final invoice for any balance of funds due the contractor for supplies delivered or services performed, the amount was not subject to further settlement actions between the Government and the Contractor.
- B. Determination of interest and penalties due will be made in accordance with the provisions of the Prompt Payment Act, as amended, the Contract Disputes Act, and regulations issued by the Office of Management and Budget.

IV. PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS, FAR 52.232-40 (DEC 2013)

- a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
- b) The acceleration of payments under this clause does not provide any new rights under the prompt Payment Act.

Include the substance of this clause, include this paragraph c, in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.

52.213-4 Terms and Conditions-Simplified Acquisitions (Other Than Commercial Items).

As prescribed in [13.302-5\(d\)](#), insert the following clause:

TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (AUG 2020)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) [52.203-19](#), Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

(ii) [52.204-23](#), Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).

(iii) [52.204-25](#), Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2020) (Section 889(a)(1)(A) of Pub. L. 115-232).

(iv) [52.222-3](#), Convict Labor (JUN 2003) (E.O.11755).

(v) [52.222-21](#), Prohibition of Segregated Facilities (APR 2015).

(vi) [52.222-26](#), Equal Opportunity (Sept 2016) (E.O.11246).

(vii) [52.225-13](#), Restrictions on Certain Foreign Purchases (Jun 2008) (E.O.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(viii) [52.233-3](#), Protest After Award (AUG 1996) ([31 U.S.C.3553](#)).

(ix) [52.233-4](#), Applicable Law for Breach of Contract Claim (OCT 2004) (Pub.L.108-77, 108-78 ([19 U.S.C. 3805 note](#))).

(2) Listed below are additional clauses that apply:

(i) [52.232-1](#), Payments (APR 1984).

(ii) [52.232-8](#), Discounts for Prompt Payment (FEB 2002).

(iii) [52.232-11](#), Extras (APR 1984).

(iv) [52.232-25](#), Prompt Payment (JAN 2017) .

(v) [52.232-39](#), Unenforceability of Unauthorized Obligations (JUN 2013).

(vi) [52.232-40](#), Providing Accelerated Payments to Small Business Subcontractors (DEC 2013).

(vii) [52.233-1](#), Disputes (MAY 2014).

(viii) [52.244-6](#), Subcontracts for Commercial Items (AUG 2020).

(ix) [52.253-1](#), Computer Generated Forms (JAN 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) [52.204-10](#), Reporting Executive Compensation and First-Tier Subcontract Awards (JUN 2020)(Pub. L. 109-282) ([31 U.S.C. 6101 note](#)) (Applies to contracts valued at or above the threshold specified in FAR [4.1403](#)(a) on the date of award of this contract).

(ii) [52.222-19](#), Child Labor-Cooperation with Authorities and Remedies (JAN 2020) (E.O.13126) (Applies to contracts for supplies exceeding the micro-purchase threshold, as defined in FAR [2.101](#) on the date of award of this contract).

(iii) [for Materials, Supplies, Articles, and Equipment](#), Contracts for Materials, Supplies, Articles, and Equipment (JUN 2020) ([41 U.S.C.chapter 65](#)) (Applies to supply contracts over the threshold specified in FAR [22.602](#) on the date of award of this contract, in the United States, Puerto Rico, or the U.S. Virgin Islands).

(iv) [52.222-35](#), Equal Opportunity for Veterans (JUN 2020) ([38 U.S.C.4212](#)) (Applies to contracts valued at or above the threshold specified in FAR [22.1303](#)(a) on the date of award of this contract).

(v) [52.222-36](#), Equal Employment for Workers with Disabilities (JUN 2020) ([29 U.S.C.793](#)) (Applies to contracts over the threshold specified in FAR [22.1408](#)(a) on the date of award of this contract, unless the work is to be performed outside the United States by employees recruited outside the United States). (For purposes of this clause, "United States" includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.)

(vi) [52.222-37](#), Employment Reports on Veterans (JUN 2020) ([38 U.S.C.4212](#)) (Applies to contracts valued at or above the threshold specified in FAR [22.1303](#)(a) on the date of award of this contract).

(vii) [52.222-41](#), Service Contract Labor Standards (AUG 2018) ([41 U.S.C.chapter 67](#)) (Applies to service contracts over \$2,500 that are subject to the Service Contract Labor Standards statute and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer Continental Shelf).

(viii)(viii)

(A) [52.222-50](#), Combating Trafficking in Persons (JAN 2019) ([22 U.S.C. chapter 78](#) and E.O 13627) (Applies to all solicitations and contracts).

(B) Alternate I (MAR 2015) (Applies if the Contracting Officer has filled in the following information with regard to applicable directives or notices: Document title(s), source for obtaining document(s), and contract performance location outside the United States to which the document applies).

(ix) [52.222-55](#), Minimum Wages Under Executive Order 13658 (DEC 2015) (Applies when [52.222-6](#) or [52.222-41](#) are in the contract and performance in whole or in part is in the United States (the 50 States and the District of Columbia)).

(x) [52.222-62](#), Paid Sick Leave Under Executive Order 13706 (Jan 2017) (E.O. 13706) (Applies when [52.222-6](#) or [52.222-41](#) are in the contract and performance in whole or in part is in the United States (the 50 States and the District of Columbia).)

(xi) [52.223-5](#), Pollution Prevention and Right-to-Know Information (MAY 2011) (E.O. 13423) (Applies to services performed on Federal facilities).

(xii) [52.223-11](#), Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (JUN 2016) (E.O. 13693)(applies to contracts for products as prescribed at FAR [23.804](#)(a)(1)).

(xiii) [52.223-12](#), Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (JUN 2016) (E.O. 13693) (Applies to maintenance, service, repair, or disposal of refrigeration equipment and air conditioners).

(xiv) [52.223-15](#), Energy Efficiency in Energy-Consuming Products (DEC 2007) ([42 U.S.C. 8259b](#)) (Unless exempt pursuant to [23.204](#), applies to contracts when energy-consuming products listed in the ENERGY STAR® Program or Federal Energy Management Program (FEMP)) will be-

(A) Delivered;

(B) Acquired by the Contractor for use in performing services at a Federally-controlled facility;

(C) Furnished by the Contractor for use by the Government; or

(D) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance).

(xv) [52.223-20](#), Aerosols (JUN 2016) (E.O. 13693) (Applies to contracts for products that may contain high global warming potential hydrofluorocarbons as a propellant or as a solvent; or contracts for maintenance or repair of electronic or mechanical devices).

(xvi) [52.223-21](#), Foams (JUN 2016) (E.O. 13693) (Applies to contracts for products that may contain high global warming potential hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons as a foam blowing agent; or contracts for construction of buildings or facilities).

(xvii) [52.225-1](#), Buy American-Supplies (MAY 2014) ([41 U.S.C. chapter 67](#)) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold, as defined in FAR [2.101](#) on the date of award of this contract, and the acquisition-

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see [19.502-2](#)), and does not exceed \$25,000).

(xviii) [Excess Food Donation to Nonprofit Organizations](#), Promoting Excess Food Donation to Nonprofit Organizations (JUN 2020) ([42 U.S.C. 1792](#)) (Applies to contracts greater than the threshold specified in FAR [26.404](#) on the date of award of this contract, that provide for the provision, the service, or the sale of food in the United States).

(xix) [52.232-33](#), Payment by Electronic Funds Transfer-System for Award Management (OCT 2013) (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the System for Award Management (SAM) as its source of EFT information).

(xx) [52.232-34](#), Payment by Electronic Funds Transfer-Other than System for Award Management (JUL 2013) (Applies when the payment will be made by EFT and the payment office does not use the SAM database as its source of EFT information).

(xxi) [52.247-64](#), Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) ([46 U.S.C.App.1241](#)) (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at [47.504\(d\)](#))).

(2) Listed below are additional clauses that may apply:

(i) [52.204-21](#), Basic Safeguarding of Covered Contractor Information Systems (JUN 2016) (Applies to contracts when the contractor or a subcontractor at any tier may have Federal contract information residing in or transiting through its information system.

(ii) [52.209-6](#), Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JUN 2020) (Applies to contracts over the threshold specified in FAR [9.405-2\(b\)](#) on the date of award of this contract).

(iii) [52.211-17](#), Delivery of Excess Quantities (*Sept* 1989) (Applies to fixed-price supplies).

(iv) [52.247-29](#), F.o.b. Origin (FEB 2006) (Applies to supplies if delivery is f.o.b. origin).

(v) [52.247-34](#), F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR [52.252-2](#), *Clauses Incorporated by Reference (Feb 1998)*. This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

[Insert one or more Internet addresses]

(d) *Inspection/Acceptance.* The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights-

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) *Excusable delays.* The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) *Termination for the Government's convenience.* The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) *Termination for cause.* The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) *Warranty.* The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

52.244-6 Subcontracts for Commercial Items.

As prescribed in [44.403](#), insert the following clause:

SUBCONTRACTS FOR COMMERCIAL ITEMS (AUG 2020)

(a) *Definitions.* As used in this clause—

Commercial item and *commercially available off-the-shelf item* have the meanings contained in Federal Acquisition Regulation (FAR) [2.101](#).

Subcontract includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or non-developmental items as components of items to be supplied under this contract.

(c)

(1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) [52.203-13](#), Contractor Code of Business Ethics and Conduct (JUN 2020) ([41 U.S.C. 3509](#)), if the subcontract exceeds the threshold specified in FAR [3.1004](#)(a) on the date of subcontract award, and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

(ii) [52.203-15](#), Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.

(iii) [52.203-19](#), Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017).

(iv) [52.204-21](#), Basic Safeguarding of Covered Contractor Information Systems (JUN 2016), other than subcontracts for commercially available off-the-shelf items, if flow down is required in accordance with paragraph (c) of FAR clause [52.204-21](#).

(v) [52.204-23](#), Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).

(vi) [52.204-25](#), Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2020) (Section 889(a)(1)(A) of Pub. L. 115-232).

(vii) [52.219-8](#), Utilization of Small Business Concerns (OCT 2018) ([15 U.S.C.637](#)(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds the applicable threshold specified in FAR [19.702](#)(a) on the date of subcontract award, the subcontractor must include [52.219-8](#) in lower tier subcontracts that offer subcontracting opportunities.

(viii) [52.222-21](#), *Prohibition of Segregated Facilities* (APR 2015).

(ix) [52.222-26](#), *Equal Opportunity* (Sept 2015) (E.O.11246).

(x) [52.222-35](#), *Equal Opportunity for Veterans* (JUN 2020) ([38 U.S.C.4212\(a\)](#));

(xi) [52.222-36](#), *Equal Opportunity for Workers with Disabilities* (JUN 2020) ([29 U.S.C.793](#)).

(xii) [52.222-37](#), *Employment Reports on Veterans* (JUN 2020) ([38 U.S.C.4212](#)).

(xiii) [52.222-40](#), *Notification of Employee Rights Under the National Labor Relations Act* (DEC 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause [52.222-40](#).

(xiv)

(A) [52.222-50](#), *Combating Trafficking in Persons* (JAN 2019) ([22 U.S.C. chapter 78](#) and E.O. 13627).

(B) Alternate I (MAR 2015) of [52.222-50](#) ([22 U.S.C. chapter 78](#) and E.O. 13627).

(xv) [52.222-55](#), *Minimum Wages under Executive Order 13658* (DEC 2015), if flow down is required in accordance with paragraph (k) of FAR clause [52.222-55](#).

(xvi) [52.222-62](#), *Paid Sick Leave Under Executive Order 13706* (JAN 2017) (E.O. 13706), if flow down is required in accordance with paragraph (m) of FAR clause [52.222-62](#).

(xvii)

(A) [52.224-3](#), *Privacy Training* (JAN 2017) ([5 U.S.C. 552a](#)) if flow down is required in accordance with [52.224-3](#)(f).

(B) Alternate I (JAN 2017) of [52.224-3](#), if flow down is required in accordance with [52.224-3](#)(f) and the agency specifies that only its agency-provided training is acceptable).

(xviii) [52.225-26](#), *Contractors Performing Private Security Functions Outside the United States* (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; [10 U.S.C. 2302 Note](#)).

(xix) [52.232-40](#), *Providing Accelerated Payments to Small Business Subcontractors* (DEC 2013), if flow down is required in accordance with paragraph (c) of FAR clause [52.232-40](#).

(xx) [52.247-64](#), *Preference for Privately Owned U.S.-Flag Commercial Vessels* (FEB 2006) ([46 U.S.C. App.1241](#) and [10 U.S.C.2631](#)), if flow down is required in accordance with paragraph (d) of FAR clause [52.247-64](#).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)