

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Definitions	52.202-1	Jan 2012			All Orders
Gratuities	52.203-3	April 1984			All Orders
Covenant Against Contingent Fees	52.203-5	April 1984			All Orders
Restrictions on Subcontractor Sales to USG	52.203-6	May 2014			SA
Anti-Kickback Procedures	52.203-7	May 2014			Applies if Order Exceeds \$150,000
Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	52.203-8	May 2014			All Orders
Price or Fee Adjustment for Illegal or Improper Activity	52.203-10	May 2014			All Orders
Certification and Disclosure Re: payments to Influence Certain Federal Transactions	52.203-11	Sept 2007			Applies in accordance with FAR 3.808 and if order exceeds \$150,000
Limitation on Payments to Influence Certain Federal Transactions	52.203-12	Oct 2010			Applies if Order Exceeds \$150,000
Contractor Code of Business Ethics & Conduct	52.203-13	Oct 2015			Applies if Order exceeds \$5,500,000 & has a period of performance greater than 120 days
Display of Hotline Posters	52.203-14	Dec 2007			Applies if Order Exceeds \$5,500,000 but does not apply to Orders for commercial items or if the Order is performed entirely overseas
Whistleblower Protections Under the American Recovery & Reinvestment Act	52.203-15	June 2010			Applies if Order is funded with ARRA funds
Contractor Employee Whistleblower Rights & Requirement to Inform Employees of Whistleblower Rights	52.203-17	Apr 2014			Applies to all orders over the Simplified Acquisition threshold
Requirements Relating to Compensation of Former DoD Officials			252.203-7000	Sept 2011	All Orders
Prohibition on Persons Convicted of Fraud or Other Defense Contract-Related Felonies			252.203-7001	Dec 2008	SA
Requirements to Inform Employees of Whistleblower Rights			252.203-7002	Sept 2013	All Orders

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Display of Hotline Posters			252.203-7004	Jan 2015	Applies in accordance with subparagraph (e) of the clause
Security Requirements	52.204-2	Aug 1996			Applies if Order involves access to classified information
Disclosure of Information			252.204-7000	Aug 2013	All Orders
Export Controlled Items			252.204-7008		All Orders
Safeguarding Unclassified Controlled Technical Info.			252.204-7012	Dec 2015	All Orders
Printed or Copied Double-Sided on Recycled Paper	52.204-4				As applicable
Personal Identity Verification of Contractor Personnel	52.204-9	Jan 2011			Applies in accordance with (b) of the clause
System for Award Management	52.204-7	Oct. 2016			As applicable
Reporting Executive Compensation & First-Tier Subcontract Awards	52.204-10	Oct 2015			As applicable
Economic Purchase Quality – Supplier	52.207-4	Aug 1987			All Orders
Basic Safeguarding of Covered Contractor Information Systems	52.204-21	June 2016			As applicable
Intent to Furnish Precious Metals as Government Furnished Material			252.208-7000		All Orders
Protecting the Government's Interest when Subcontracting with Contractors Debarred, Suspended or Proposed for Debarment	52.209-6	Oct 2015			Applies in accordance with paragraph (e) of the clause
Subcontracting with Firms that are Owned or Controlled by the Government of a Terrorist Country			252.209-7004		
Material Requirements	52.211-5	Aug 2000			All Orders
Defense Priority & Allocation Requirements	52.211-15	Apr 2008			Applies if priority rating is noted on this Order
Acquisition Streamlining			252.211-7000	Oct 2010	Applies if Order exceeds \$1.5M
Item Identification & Valuation			252.211-7003	Dec 2013	All Orders
Contract Terms & Conditions Required to Implement Statutes or Executive Orders Commercial Items (CI)	52.212-5	Apr 2015			CI

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Contract Terms & Conditions Required to Implement Statutes or Executive Orders Applicable to Defense Acquisitions of Commercial Items			252.212-7001	June 2012	
Audit & Records – Sealed Bidding	52.214-26	Oct 2010			Applies when cost or pricing data required
Price Reduction for Defective Cost or Pricing Date – Modifications – Sealed Bidding	52.214-27	Aug 2011			Applies when cost or pricing data required
Subcontractor Cost or Pricing Data – Modifications – Sealed Bidding Audits & Records – Negotiation	52.214-28	Oct 2010			Applies when cost or pricing data required
Audits & Records – Negotiation	52.215-2	Oct 2010			
Price Reduction for Defective Cost or Pricing Data	52.215-10	Aug 2011			Applies when cost or pricing data required
Price Reduction for Defective Cost or Pricing Data – Modifications	52.215-11	Aug 2011			Applies when cost or pricing data are required
Subcontracting Cost or Pricing Data	52.215-12	Oct 2010			Applies when cost or pricing data are required
Subcontracting Cost or Pricing Data – Modifications	52.215-13	Oct 2010			Applies when cost or pricing data are required
Integrity of Unit Prices	52.215-14	Oct 2010			Applies in accordance with paragraph (c) of the clause
Pension Adjustments & Asset Reversions	52.215-15	Oct 2010			Applies in accordance with FAR 15.408(g)
Facilities Capital Cost of Money	52.215-16	June 2003			Applies to cost-type Orders
Waiver of Facilities Capital Cost of Money	52.215-17	Oct 1997			Applies to cost-type Orders
Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other Than Pensions	52.215-18	July 2005			Applies in accordance with FAR 15.408(j)
Notification of Ownership Changes	52.215-19	Oct 1997			Applies in accordance with FAR 15.408(k)
Requirements for Cost or Pricing Data or Info. Other than Cost or Pricing Data	52.215-20	Oct 2010			All Orders
Requirements for Cost or Pricing Data or Info. Other than Cost of Pricing Data – Modifications	52.215-21	Oct 2010			All Orders
Limitations on Pass-Through Charges – Identification of Subcontract Effort	52.215-22	Oct 2009			As applicable

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Limitation on Pass-Through Charges	52.215-23	Oct 2009			Applies in accordance with paragraph (f)
Allowable Cost & Payment	52.216-7	June 2013			Applies to cost-type Orders
Utilization of Small Business Concerns	52.219-8	Oct 2014			SA
Small Business Contracting Plan	52.219-9	July 2013			Applies if Order exceeds \$700,000 & Seller is not a small business concern
Small Business Subcontracting Plan (DoD Contracts)			252.219-7003	Aug 2012	Applies when FAR 52.219-9 applies
Notice to the Government of Labor Disputes	52.222-1	Feb 1997			All Orders
Convict Labor	52.222-3	June 2003			Applicable if Order is above the micro purchase threshold of FAR 2.101
Contract Hours & Safety Standards Act – Overtime Compensation	52.222-4	July 2005			Applies in accordance with paragraph (e) of the clause
Subcontracts (Labor Standards)	52.222-11	July 2005			Applies if the Order is for construction within the United States
Child Labor – Cooperation with Authorities & Remedies	52.222-19				All Orders
Walsh-Healey Public Contracts Act	52.222-20	May 2014			Applies if Order exceeds \$15,000
Prohibition of Segregated Facilities	52.222-21	April 2015			Applies if FAR 52.222.26 is applicable
Previous Contracts & Compliance Reports	52.222-22				
Pre-aware On-Site Equal Opportunity Compliance Evaluation	52.222-24	Feb 1999			Applies if Order exceeds \$10,000,000
Affirmative Action Compliance	52.222-25				
Equal Opportunity	52.222-26	April 2015			All Orders
Affirmative Action Compliance Requirements for Construction	52.222-27	April 2015			Applies if Order is for work involving any construction trade in excess of \$10,000
Project Labor Agreements	52.222-34	May 2010			Applies if Order is for construction
Equal Opportunity for Veterans	52.222-35	Oct 2015			Applies if Order exceeds \$150,000
Affirmative Action for Workers with Disabilities	52.222-36	July 2014			Applies if Order exceeds \$50,000

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Employment Reports on Veterans	52.222-37	Oct 2015			Applies if Order exceeds \$150,000
Notification of Employee Rights Under the National Labor Relations Act	52.222-40	Dec 2010			Applies in accordance with paragraph (f)
Service Contract Act of 1965	52.222-41	Nov 2007			Applies if Order exceeds \$2,500
Combating Trafficking in Persons	52.222-50	Mar 2015			All Orders
Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration or Repair of Certain Equipment – Requirements	52.222-51	Nov 2007			Applies to Orders for exempt services
Employment Eligibility Verification	52.222-54	Oct 2015			Applies in accordance with paragraph (e) of the clause
Restrictions on Employment of Personnel			252.222-7000	Mar 2000	All Orders
Restrictions on the Use of Mandatory Arbitration Agreements			252.222-7006	Dec 2010	As applicable
Representation Regarding Combating Trafficking in Persons			252.222-7007	Jan 2015	All Orders
Hazardous Material Identification and Material Safety Data	52.223-3	Jan 1997			Applies only if Seller delivers hazardous materials under the Order
Notice of Radioactive Materials	52.223-7	Jan 1997			Applies only if Seller delivers radioactive materials under the Order
Ozone Depleting Substances	52.223-11	May 2001			All Orders
Energy Efficiency in Energy-Consuming Products	52.223-15	Dec 2007			Applies in accordance with subparagraph (c) of the clause
Contact Policy to Ban Text Messaging While Driving	52.223-18	Aug 2011			
Prohibition on Storage & Disposal of Toxic & Hazardous Materials			252.223-7006	April 2012	All Orders
Buy American Act – Supplies	52.225-1	May 2014			Applies to all subcontracts for supplies
Buy American Act – North America Free Trade Agrmt- Israeli Trade Act	52.225-3	Nov 2012			All Orders
Trade Agreements	52.225-5	Sept 2013			All Orders

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Duty Free Entry	52.225-8	Oct 2010			Applies in accordance with paragraph (j) of the clause (in paragraph (c)(1), change “20 calendar days” to “30 calendar day” and in paragraph (c)(2) changes “10 calendar days” to “20 calendar days”)
Restrictions on Certain Foreign Purchase	52.225-13	June 2008			All Orders
Required Use of American Iron, Steel and Manufactured Goods – Buy American Act – Construction Materials	52.225-21	Mar 2009			Applies to all construction subcontracts
Required Use of American Iron, Steel and Manufactured Goods – Buy American Act – Construction Materials Under Trade Agreements	52.225-23	Aug 2009			Applies to all construction subcontracts
Contractors Performing Private Security Functions Outside of the United States	52.225-26	July 2013			Applies in accordance with paragraph (f) of the clause
Buy American Act & the Balance of Payments Program			252.225-7001	Nov 2014	All Orders
Qualifying Country Sources as Subcontracts			252.225-7002	Dec 2012	All Orders
Quarterly Reporting of Actual Contract Performance Outside of the United States			252.225-7006	Oct 2010	Applies in accordance with paragraph (f) of the clause
Prohibition on Acquisition of United States Munitions List Items from communist Chinese Military Companies			252.225-7007	Sept 2006	All Orders
Restriction on Acquisition of Specialty Metals			252.225-7008	Mar 2013	All Orders
Restriction on Acquisition of Certain Articles Containing Specialty Metals			252.225-7009	June 2013	All Orders
Commercial Derivative Military Article – Specialty Metals Compliance Certificate			52.225-7010	July 2009	All Orders
Preference for Certain Domestic Commodities			252-225-7012	Feb 2013	All Orders
Duty-Free Entry – Qualifying Country Supplies (End Products & Components)			252.225-7013	Nov 2014	All Orders
Restriction on Acquisition of Hand or Measuring Tools			252.225-7015	June 2005	All Orders
Restriction on Acquisition of Ball and Roller Bearings			252.225-7016	June 2011	All Orders

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Trade Agreements			252.225-7021	Oct 2013	All Orders
Restriction on Acquisition of Forgings			252.225-7025	Dec 2009	All Orders
Restriction on Acquisition of Carbon, Alloy and Armor Steel Plate			252.225-7030	Dec 2006	All Orders
Waiver of United Kingdom Levies			252.225-7033	Apr 2003	All Orders
Buy American Act – Free Trade Agreement – Balance of Payments Program			252.225-7036	Dec 2012	All Orders
Restrictions on Acquisition of Air Circuit Breakers			252.225-7038	June 2005	All Orders
Contractor Personnel Authorized to Accompany U.S. Armed Forces Deployed Outside of the United States			252.225-7040	Feb 2012	All Orders
Antiterrorism/Force Protection for Defense Contractors Outside of the United States			252.225-7043	Mar 2006	All Orders
Export Controlled Items			252.225-7048	June 2013	All Orders
Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts			252.226-7001	Sept 2004	Applies if Order exceeds \$500,000
Authorization and Consent	52.227-1	Dec 2007			SA (include Alt I or II to the extent in the Prime Contract)
Notice and Assistance Regarding Patent and Copyright Infringement	52.227-2	Dec 2007			SA
Patent Indemnity	52.227-3	Apr 1984			All Orders
Refund of Royalties	52.227-9	Apr 1984			Applies in accordance with paragraph (f) of the clause
Filing of Patent Applications – Classified Subject Matter	52.227-10	Dec 2007			Applies in accordance with paragraph (e) of the clause
Patent Rights – Ownership by the Contractor	52.227-11	May 2014			Applies in accordance with paragraph (k) of the clause
Patent Rights – Ownership by the Government	52.227-13	Dec 2007			Applies in accordance with paragraph (i) of the clause
Rights in Data – General	52.227-14	Dec 2007			All Orders
Rights in Technical Data – Noncommercial Items			252.227-7013	Feb 2014	All Orders (applies when tech data from subcontractor delivered to the Government by the prime contractor)

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Rights in noncommercial computer software and noncommercial computer software documentation			225.227-7014	Feb 2014	All Orders (applies when software and software documentation from subcontractor delivered to the Government by the prime contractor
Technical Data-Commercial Items			252.227-7015	Feb 2014	All Orders (in lieu of DFARS 252.227-7013 for Commercial Items; applicable only when commercial item (as defined in the FAR) technical data from subcontractor delivered to the Government by the prime contractor; no substitutions for “Contracting Officer” or “Government” have been made.)
Rights in Bid or Proposal Information			252.227-7016	Jan 2011	All Orders
Identification and Assertion of Use, Release or Disclosure Restrictions			252.227-7017	Jan 2011	All Orders
Validation of Asserted Restrictions – Computer Software			252.227-7019	Sept 2011	All Orders (applies when clause 252.227-7014 is used.
Rights in Special Works			252.227-7021	June 1995	All Orders
Rights in Data – Existing Works			252.227-7022	Mar 1979	All Orders
Government Rights (Unlimited)			252.227-7022	Mar 1979	All Orders
Drawings and Other Data Become Property of Government			252.227-7023	Mar 1979	All Orders
Deferred Deliver of Technical Data or Computer Software			252.227-7026	April 1988	All Orders
Deferred Ordering of Technical Data or Computer Software			252.227-7027	April 1988	All Orders
Technical Data or Computer Software Previously Delivered to the Government			252.227-7028	June 1995	All Orders
Technical Data – Withholding of Payment			252.227-7030	March 2000	In this clause “Government” and “Contracting Officer” shall mean Buyer
Rights in Technical Data and Computer Software (Foreign)			252.227-7032	June 1975	All Orders
Rights in Shop Drawings			252.227-7033	Apr 1966	All Orders
Validation of Restrictive Markings on Technical Data			252.227-7037	June 2013	All Orders (applies when Clause 252.227-7013, 252.227-7014 or 252.227-7015 are used
Patent Rights – Ownership by the Contractor (Large Business)			252.227-7038	Dec 2007	As applicable

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

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Ground and Flight Risk			252.228-7001	June 2010	All Orders (This Clause applies only if the subcontract relates to the acquisition, development production, modification maintenance, repair flight or overhaul of aircraft and is subject to USG approval.
Accident Reporting and Investigation Involving Aircraft, Missiles and Space Launch Vehicles			252.228-7005	Dec 1991	All Orders
Worker's Compensation Insurance (Defense Base Act)	52.228-3	Apr 1984			All Orders
Worker's Compensation and War-Hazard Insurance Overseas	52.228-4	Apr 1984			All Orders
Insurance-Work on a Government Installation	52.228-5	Jan 1997			All Orders
Federal, State & Local Taxes	52.229-3	Feb 2013			All Orders
Taxes – Foreign Fixed Price Contracts	52.229-6	Feb 2013			All Orders
State of New Mexico Gross Receipts & Compensating Tax	52.229-10	Apr 2003			All Orders
Reporting of Foreign Taxes – US Assistance Programs			252.229-7011	Sept 2015	Applies to Orders for commodities that exceed \$500
Cost Accounting Standards	52.230-2	Oct 2015			As applicable
Disclosure & Consistency of Cost Accounting Practices	52.230-3	May 2012			As applicable
Disclosure & Consistency of Cost Accounting Practices – Foreign Concerns	52.230-4	May 2014			Applies to subcontracts in accordance with paragraph (d) of the clause
Admin. Of Cost Accounting Standards	52.230-6	June 2010			As applicable
Supplemental Cost Principles			252.231-7000	Dec 1991	As applicable
Progress Payments	52.232-16				As applicable
Interest	52.232-17	May 2014			All Orders
Prompt Payment for Construction Contracts	52.232-27	July 2013			All Orders supporting a Prime Contract that is for construction
Performance Based Payments	52.232-32				As applicable
Providing Accelerated Payments to Small Business Subcontractors	52.232-40	Dec 2013			All Orders
Frequency Authorization			252.235-7003	Mar 2014	Applies in accordance with paragraph (d) of the clause

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

Clause	FAR Reference	FAR Date	DFAR Reference	DFAR Date	Applicability
Accident Prevention	52.236-13	Nov 1991			All Orders
Modification Proposals – Price Breakdown			252.236-7000	Dec 1991	All Orders
Telecommunication Security Equipment, Devices, Techniques and Services			252.239-7016	Dec 1991	Applies in accordance with paragraph (e) of the clause
Notice of Supply Chain Risk			252.239-7017	Nov 2013	All Orders that involve the development or delivery of any information technology whether acquired as a service or as a supply
Supply Chain Risk			252.239-7018	Nov 2013	All Orders that involve the development or delivery of any information technology whether acquired as a service or as a supply
Stop-Work Order	52.242-15				All Orders (in paragraph (a), change “90 days” to read “180 days”)
Competition in Subcontracting	52.244-5	Dec 1996			All Orders
Subcontracts for Commercial Items	52.244-6				CI
Subcontracts for Commercial Items and Commercial Components (DoD Contracts)			252.244-7000	June 2013	CI
Government Property (Fixed Price Contract)	52.245-1				As applicable
Use and Charges	52.245-9				All Orders
Contractor Inspection Requirements	52.246-1	Apr 1984			All Orders
Inspection of Supplies – Fixed Price	52.246-2	Aug 1996			All Orders
Inspection of Supplies – Cost Reimbursement	52.246-3	May 2001			Applies to all cost-reimbursement subcontracts for supplies
Responsibility for Supplies	52.246-16	Apr 1984			All Orders
Warranty of Data			252.246-7001	Dec 1991	The warranty period in paragraph (b) is three years from the Government’s acceptance of the final items of data under this contract. “Government” and “Contracting Officer” shall mean “Buyer”

EXHIBIT A

Version October 1, 2019

**FLOWDOWN OF U.S. GOVERNMENT CLAUSES FOR ORDERS UNDER
U.S. GOVERNMENT CONTRACTS**

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Contractor Counterfeit Electronic Part Detection & Avoidance System			252.246-7007	May 2014	All Orders. Only paragraph (a) – (e) apply.
Transportation of Supplies by Sea			252.247-7023	April 2014	As applicable
Preference for Privately Owned U.S.-Flag Commercial Vessels	52.247-64	Feb 2016			Applies if not exempted under 52.247-64(e)
Pass-Through of Motor Carrier Fuel-Surcharge Adjustment to the Cost Bearer			252.247-7003	June 2013	Applies in accordance with paragraph (c) of the clause
Notification of Transportation of Supplies by Sea	52.248-1	Oct 2010			All Orders
Termination for Convenience of the Government (Fixed-Price)	52.249-2	Apr 2012			All Orders (in paragraph (c), change “120 days” to “60 days” in paragraph (e) change “1 year” to “6 months” in paragraph I, change 90 days” to “45 days”) (this clause applies in lieu of the Termination for Convenience clauses in the body of the Terms and Conditions in the event the prime contract is terminated)
Termination (Cost-Reimbursement)	52.249-6	May 2004			This clause applies in lieu of the Terms and Conditions in the event the prime contract is terminated
Default (Fixed Price Supply and Service)	52.249-8	Apr 1984			This clause applies in lieu of the Termination for Default clause in the body of the Terms and Conditions in the event the prime contract is terminated
Excusable Delays	52.249-14				All Orders
Notification of Anticipated Contract Termination or Reduction			252.249-7002	Oct 2010	As applicable