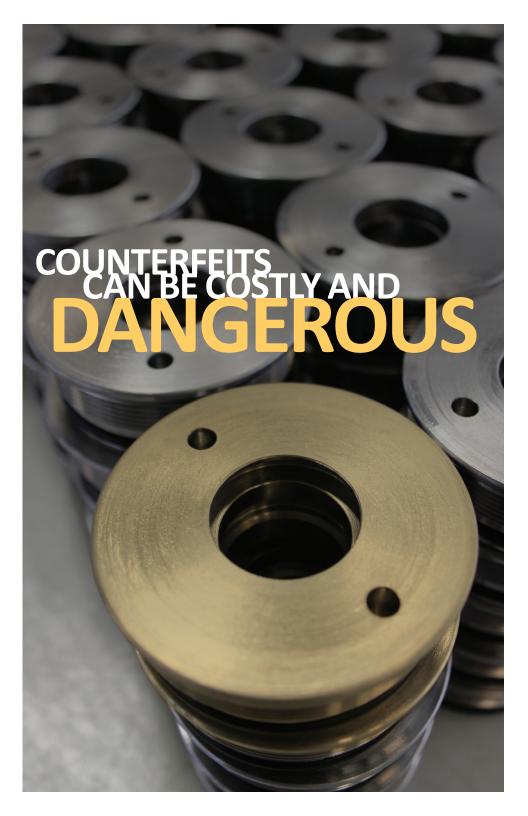


NASA OFFICE OF INSPECTOR GENERAL



OFFICE OF INVESTIGATIONS

PRODUCT SUBSTITUTION



ABOUT THE OFFICE OF INVESTIGATIONS

WHO ARE WE?

Each Federal agency has an independent Office of Inspector General (OIG) charged with conducting objective audits and investigations, as well as preventing and detecting fraud, waste, and abuse. Within the NASA OIG, the Office of Investigations handles allegations of wrongdoing involving organizations or individuals that receive awards from, conduct business with, or work with NASA.

WHAT DO WE DO?

We investigate allegations in which NASA is the potential victim of fraud, waste, or abuse by employees, grantees, contractors, or others. We receive allegations from many sources, including proposal reviewers, Agency employees, the OIG hotline, and the public. We also handle all allegations of research misconduct involving Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) proposals and awards.



TYPES OF PRODUCT SUBSTITUTION

Form (Materials substitution)

- The use of materials that do not conform to contract requirements
- Used, surplus, or outdated materials or components

Fit (Dimensions/Interchangeability)

- Most common defect in manufactured products
- Part may be unusable
- May affect life of mated components or damage equipment
- May affect reliability, accuracy, or durability of entire system

Function (Design, workmanship, or process control issues)

- Process not performed properly (machining, welding, soldering, plating, testing)
- Component or end item does not operate within parameters of original design due to unauthorized design change
- Design never conformed to development specification
- Falsification of test results or service records.

Counterfeit parts

- Parts which do not contain the proper internal construction (die, manufacturer, wire bonding, etc.) consistent with the ordered part
- Parts which have been used, refurbished or reclaimed, but represented as a new product
- Parts which have a different package style or surface plating/finish than the ordered parts
- Parts sold with modified labeling or markings intended to misrepresent the part's form, fit, function, or grade

Service contracts

- Use of unskilled/unqualified personnel
- Falsifying level of effort







What Is Product Substitution?

Misrepresentation of any fact pertaining to any product used in Government projects.

What Is the Impact to NASA?

- Safety risks to astronauts and pilots
- Launch vehicles failures
- Mission failures
- Launch delays
- Detrimental impact to project schedules
- Increased costs

INDICATORS

Product substitution involves contractors who knowingly introduce defective, substituted, untested, counterfeit, or substandard products into NASA's acquisition system. Common indicators include, but are not limited to, the following:

- Receiving frequent complaints by users of supplies or services
- Mismarking or mislabeling of products and materials
- Using old, uncalibrated, or improperly calibrated equipment for acceptance testing
- Restricting or avoiding inspection of goods or services or select samples to be tested
- Entertaining or providing gratuities to inspection personnel
- Noting that the work performed shows early signs of aging and wear
- Providing inadequate, disorderly, missing, or altered supporting documentation or certifications relating to production, manufacture, supply, or quality control processes
- Showing high rates of return, rejection, and failures
- Noting that the contractor selects testing company or performs tests itself
- Observing that test records reflect no failures, have been altered or destroyed, or cannot be found.
- Uncovering evidence of close socialization between the supplier and contracting personnel
- Providing photocopies or digital versions of certifications and other records when originals are expected
- Noting higher than expected maintenance rates
- Providing duplicative laboratory test reports (for example, reports that are identical to sample test results, varying only by date and lot numbers)

PENALTIES AND REPERCUSSIONS

The NASA OIG investigates allegations or suspicions of fraud pertaining to the intentional introduction of defective, counterfeit, untested, or substandard products into NASA's acquisition system. Violations of criminal law are referred to the U.S. Department of Justice (DOJ). Common statutes pursued by DOJ in Product Substitution cases include:

- 18 U.S.C. § 38 18 USC 38 Fraud Involving Aircraft or Space Vehicle Parts
- 18 U.S.C. § 287 False Claims
- 18 U.S.C. § 371 Conspiracy
- 18 U.S.C. § 1001 False Statements
- 18 U.S.C. § 1341 / 1343 Mail & Wire Fraud

Contractors and individuals successfully prosecuted by DOJ risk prison, payment of fines, restitution and other penalties. DOJ may also pursue civil lawsuits under the False Claims Act against individuals and companies who knowingly supply defective, counterfeit, untested, or substandard products to NASA and DOJ may seek triple the amount of damages in such cases. Additional repercussions of engaging in Product Substitution may include NASA terminating outstanding awards and suspending or debarring individuals or companies from receiving new grants and contracts from any U.S. Government agency.



NASA OFFICE OF INSPECTOR GENERAL OFFICE OF INVESTIGATIONS

300 E Street SW, Washington, DC 20546-0001 202-358-1500



OFFICE LOCATIONS AND PHONE NUMBERS

NASA OIG HEADQUARTERS

Washington, DC 202-358-1500

AMES RESEARCH CENTER

Moffett Field, CA 650-604-2678 (Investigations)

ARMSTRONG FLIGHT RESEARCH CENTER

Edwards Air Force Base, CA 202-358-1001 (Investigations)

GLENN RESEARCH CENTER

Cleveland, OH 216-433-6121 (Investigations) 216-433-9714 (Audits)

GODDARD SPACE FLIGHT CENTER

Greenbelt, MD 301-286-9316 (Investigations) 301-286-0497 (Audits)

Trenton, NJ Place of Duty 609-656-2543 or 609-656-2545

JET PROPULSION LABORATORY

Pasadena, CA 202-358-1001 (Investigations) 818-354-9743 (Audits)

JOHNSON SPACE CENTER

Houston, TX 281-483-8427 (Investigations) 281-483-9572 (Audits)

KENNEDY SPACE CENTER

Kennedy Space Center, FL 321-867-4714 (Investigations) 321-867-4719 (Audits)

LANGLEY RESEARCH CENTER

Hampton, VA 757-864-3263 (Investigations) 757-864-8500 (Audits)

MARSHALL SPACE FLIGHT CENTER

Marshall Space Flight Center, AL 256-544-9188 (Investigations) 256-791-2002 (Audits)

ROCKY MOUNTAIN RESIDENT AGENCY

Greenwood Village, CO 202-358-4900 (Investigations)

STENNIS SPACE CENTER

Stennis Space Center, MS 228-688-1493 (Investigations) NASA Policy Directive 9800.1B requires NASA employees who observe crime, fraud, waste, abuse, or mismanagement to report the observation or suspicion to the OIG. Likewise, NASA employees, contractors, grantees, programs, partners, and those receiving NASA funds are expected to cooperate fully with the OIG and its designees. To report suspected violations, contact us through our Hotline.

OIG HOTLINE

1-800-424-9183 / TDD: 1-800-535-8134

https://oig.nasa.gov/hotline.html

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