

SSC AFFIRMATIVE PROCUREMENT GUIDELINES

In accordance with Executive Order 12873, Executive Order 13101, and the Resource Conservation and Recovery Act (RCRA), Section 6002, it is the official policy of NASA to utilize environmentally preferable products to the maximum extent practicable. To promote additional purchases of these products at SSC, request originators and contracting personnel will be responsible for utilizing statements of work or specifications which reduce virgin material requirements, maximize the use of recovered or recycled materials, and promote energy and water efficiency.

As required by RCRA, Section 6002, the Environmental Protection Agency (EPA) has published a list of designated items which are or may be made with recovered or reclaimed materials. This list is referred to as the Comprehensive Procurement Guideline, or CPG. The original list from 40 CFR 247, Subpart B was supplemented by the list published in the May 1, 1995 issue of the *Federal Register*, which was then amended on November 13, 1997 (*Federal Register*, Volume 62, No 219), August 26, 1998 (*Federal Register*, Volume 63, No 165) and January 19, 2000 (*Federal Register*, Volume 65, No. 12).

The latest CPG includes the following eight product categories: 1) paper and paper products, 2) vehicular products, 3) construction products, 4) transportation products, 5) park and recreation products, 6) landscaping products, 7) non paper office products and 8) miscellaneous products.

Paper and Paper Products

Vehicular Products

- lubricating oils containing re-refined oils
- tires
- reclaimed engine coolants
- Construction Products
- building insulation
- structural fiberboard
- laminated paperboard
- plastic pipe and fittings
- geotextiles
- cement/concrete containing fly ash
- cement/concrete containing granulated blast furnace slag
- carpet
- floor tiles
- patio blocks
- shower and restroom dividers/partitions
- consolidated and reprocessed latex paint for specified uses
- nylon carpet
- carpet cushion
- flowable fill
- railroad grade crossing surfaces

Transportation Products

- traffic barricades
- traffic cones
- parking stops
- channelizers
- delineators
- flexible delineators

Park and Recreation Products

- playground surfaces
- running track
- plastic fencing for specified uses

- park benches and picnic tables
- playground equipment

Landscaping Products

- hydraulic mulch
- yard trimmings compost
- garden and soaker hoses
- lawn and garden edging
- plastic lumber landscaping timbers and posts

Non-Paper Office Products

- office recycling containers
- office waste receptacles
- plastic desk-top accessories
- remanufactured toner cartridges
- solid plastic binders
- plastic trash bags
- printer ribbons
- plastic envelopes
- plastic binders, clipboards, file folders, portfolios, and presentation folders

Miscellaneous

pallets
sorbants for oil/solvent clean-up
industrial drums
awards and plaques
mats
strapping
signs

Acquisition of products in certain categories must meet minimum recovered material standards as published in the EPA's Recovered Materials Advisory Notice (RMAN). A summary of the RMAN standards is provided below. **Products, which do not meet these standards, may not be purchased without a Waiver that has been approved by the NASA/SSC Environmental Officer.** Refer to NPG 8830, Section 3.2 for a description of the Waiver process. Electronic Waiver forms are available on the SSC Homepage. Waivers will be granted only when the item is not available competitively, not available within a reasonable timeframe, do not meet appropriate performance standards, or are only available at an unreasonable price. It is the responsibility of each request originator and/or contracting personnel to submit these forms to the Environmental Officer. The Center Procurement Office shall not accept requests for designated materials, unless the materials are on the EPA list at 40 CFR 247, or the request is accompanied by an approved Waiver.

NASA/SSC Environmental Management documents the progress of affirmative procurement efforts annually in a report to NASA Headquarters—through NETS.

(from the Recovered Materials Advisory Notices)

Paper and Paper Products

<u>Item</u>	<u>Recovered Fiber</u>	<u>%</u>	<u>Post-Consumer Fiber</u>
reprographic paper	30	30	
offset paper	30	30	
tablet paper	30	30	
forms paper	30	30	
envelope paper			
woven	30	30	
kraft - white & colored	10-20	10-20	
kraft - unbleached	10	10	
cotton fiber paper	30	30	
text and cover paper	30	30	
supercalendered	10	10	
machine finish groundwood	10	10	
papeteries	30	30	
check safety paper	10	10	
coated printing paper	10	10	
carbonless printing paper	30	30	
file folders (manila & colored)	30	30	
dyed filing products	20-50	20	
cards (index, postal, etc.)	50	20	
pressboard report covers	50	20	
tags and tickets	20-50	20	
newsprint	20-100	20-85	
bathroom tissue	20-100	20-60	
paper towels	40-100	40-60	
paper napkins	30-100	30-60	
facial tissue	10-100	10-15	
general purpose industrial wipers	40-100	40	
corrugated containers (<300 psi)	25-50	25-50	
corrugated containers (300 psi)	25-30	25-30	
solid fiber boxes	40	40	
folding cartons	100	40-80	
industrial paperboard (tubes, cores, drums, and cans)	100	45-100	
miscellaneous (pad backs, covered binders, mailing tubes, etc.)	90-10	75-100	

**EPA's Recommended Minimum Content Standards
(from the Recovered Materials Advisory Notices)**

(continued)

padded mailers	5-15	5-15
carrierboard	10-100	10-15
brown papers (wrapping paper, bags)	5-40	5-20
tray liners	100	50-75

Vehicular Products

<u>Item</u>	<u>Recovered Material / Specifications</u>
lubricating oil	re-refined oil, at least 25 %
tires	re-treaded, meeting federal specification ZZ-T-381
engine coolants	reclaimed coolant containing only one base chemical (typically ethylene glycol or propylene glycol)

Construction Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
insulation		
rock wool	slag	75
fiberglass	glass cullet	20-25
perlite composite board	post-consumer paper	75
foam-in-place	post-consumer paper	23
phenolic rigid foam	plastic rigid foam, recovered	9
structural fiberboards	recovered material	5
laminated paperboards	recovered material	5
polyester carpet	post-consumer paper	80-100
(light to moderate wear applications)	post-consumer paper	100
patio blocks	post-consumer PET resin	25-100
floor tiles	post-consumer rubber or plastic	90-100
shower/restroom partitions	post-consumer rubber or plastic	90-100
steel	post-consumer steel	16
plastic	total recovered material	25-30
reprocessed latex paint for specific uses	post-consumer plastic	20-100
white, off-white, and pastel	post-consumer latex paint	20
grey, brown, earthtones, darks	post-consumer latex paint	50-99
consolidated	post-consumer latex paint	100

**(from the Recovered Materials Advisory Notices)
(continued)**

nylon carpet made with backing	post-consumer old carpet	100
carpet cushion		
bonded polyurethane	post-consumer old carpet cushion	15-50
jute	post-consumer burlap	40
synthetic fibers	total recovered material	100
rubber	post consumer tire rubber	60-90
flowable fill		
high fly ash	fly ash	95
low fly ash	fly ash	6-14
railroad grade crossings		
concrete	total recovered material	15-20
rubber	total recovered material	85-95
steel	post-consumer steel	16-67

Cement and Concrete

Due to variations in coal fly ash, ground formulated blast furnace (GFBF) slag, strength requirements, costs, etc., EPA does not recommend minimum recovered material content levels for cement or concrete which contain fly ash or GFBF slag. The following are target levels only.

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
cement	coal fly ash	20-30
or		
cement	ground formulated blast furnace slag	0-70
concrete	coal fly ash	15
or		
concrete	ground formulated blast furnace slag	25-50

**EPA's Recommended Minimum Content Standards
(from the Recovered Materials Advisory Notices)**

(continued)

Transportation Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
traffic cones	post-consumer PVC, LDPE, or crumb rubber	50-100
traffic barricades	post-consumer HDPE, LDPE, or PET steel	80-100
parking stops		
plastic and/or rubber	post-consumer plastic/rubber	100
concrete	coal fly ash	20-40
concrete	GGBF slag	25-70
channelizers		
plastic	post-consumer plastic	25-95
rubber (base only)	post-consumer rubber	100
delineators		
plastic	post-consumer plastic	25-90
rubber (base only)	post-consumer rubber	100
steel (base only)	post-consumer steel	25-50
flexible delineators	post-consumer plastic	25-85

Park and Recreation Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
playground surfaces	post-consumer rubber or plastic	90-100
running tracks	post-consumer rubber or plastic	90-100
fencing for specified uses	post-consumer plastic	60-100
	total recovered material	90-100
picnic tables and park benches	post-consumer plastics	90-100
	post consumer plastic composites	50-100
	post-consumer aluminum	25
	total recovered concrete	15-40
	post-consumer steel	16-67
playground equipment	post-consumer plastics	90-100
	post-consumer plastic composites	50-75
	post consumer steel	16-67
	post consumer aluminum	25

Landscaping Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
paper-based hydraulic mulch	post-consumer paper	100
wood-based hydraulic mulch	recovered wood and/or paper	100
garden hose	recovered rubber/plastic	60-65
soaker hose	recovered rubber/plastic	60-70
lawn and garden edging	post-consumer plastic/rubber	30-100

**EPA's Recommended Minimum Content Standards
(from the Recovered Materials Advisory Notices)**

(continued)

plastic lumber landscaping timbers	post-consumer HDPE	25-100
	post-consumer mixed plastic/sawdust	50
	post-consumer HDPE/fiberglass	75
	post-consumer mixed resins	50-100

Non-Paper Office Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
office recycling containers	post-consumer plastic, paper, or steel	25-100
office waste receptacles	post-consumer plastic, paper, or steel	25-100
plastic desk-top accessories	post-consumer polystyrene	25-80
plastic covered binders	post-consumer plastic	25-50
plastic trash bags	post-consumer plastic	10-100
printer ribbons	N/A (see EPA recommendations in <i>Federal Register</i>)	
solid plastic binders *	post-consumer HDPE	90
plastic clipboards*	post-consumer HDPE	90
plastic file folders*	post-consumer HDPE	90
plastic clip portfolios*	post-consumer HDPE	90
plastic presentation folders*	post-consumer HDPE	90

* EPA recommendations do not preclude purchases of these products manufactured from other materials, such as paper. It simply recommends that when purchasing products made from the specified materials, the items be manufactured from recovered materials.

Miscellaneous Products

<u>Item</u>	<u>Recovered Materials</u>	<u>% Weight</u>
wooden pallets	post-consumer wood	95-100
plastic pallets		
plastic lumber	post-consumer plastic	100
thermoformed	post-consumer plastic	25-50
paperboard pallets	post-consumer paperboard	50
sorbants	post-consumer paper	90-100
	post-consumer textiles	95-100
	total recovered plastics	25-100
	total recovered wood	100
	total recovered other organics	100
industrial drums		
steel drums	post-consumer steel	16
plastic drums	post-consumer HDPE	30-100
fiber drums	post-consumer paper	100
awards and plaques	post-consumer glass	75-100
	total recovered wood	100
	post-consumer paper	40-100

EPA's Recommended Minimum Content Standards

**(from the Recovered Materials Advisory Notices)
(continued)**

mats	post-consumer plastic	50-100
	post-consumer rubber	75-100
	post-consumer plastic	10-100
	post-consumer rubber/plastic	100
strapping		
polyester strapping	post-consumer PET	50-85
polypropylene strapping	total recovered PP	10-40
steel strapping	post-consumer steel	25-30
signage		
plastic signs	post-consumer plastic	80-100
aluminum signs	post-consumer aluminum	25
plastic/posts	post-consumer plastic	80-100
steel posts	post-consumer steel	25-100

Notes:

These standards are for guidance only. Please refer to the official standards when making purchases. The original RMAN standards were published in the *Federal Register* on May 1, 1995. The paper and paper products RMAN standards were published in the *Federal Register* on May 29, 1996. The RMAN II standards were published in the *Federal Register* on November 13, 1997 and RMAN III standards were published in the *Federal Register* on August 26, 1998.