

TO: Distribution

TGG: JEC: FGJ AC AJD: RF

XP: NONE

FROM: T. G. Grumbles

DATE: April 8, 1991

Interoffice
Communication

SUBJ: PERFORMANCE ORIENTED PACKAGING

VISTA

FYI - in case you haven't received this from your favorite local vendor.



T. G. Grumbles

dlj

Attachment

Distribution: TRANSPORTATION CONTACTS

T. S. Randolph-LCCP, D. G. Stephens-LCLAB, K. C. Cash-LCVCM, M. F. Tigar-Balt, Kenney Akins-Aber, G. C. Lipps-Prem, H. D. Garrison-Okc, R. G. Witt-Blane, R. T. Jackson-Austin, K. R. Perez-Hmd, J. G. Farrier, J. M. Kerlegon, H. L. Duckworth, M. L. Williams, R. B. Quay

VVV 000006252

TO: Pete Douvry

TGG: JCL: ERT: MJH: AJO: RF
XF: ~~10112 4125~~ none

FROM: T. G. Grumbles

DATE: April 8, 1991

Interoffice
Communication

SUBJ: ATTACHED IOC RE: LPA-210 PURGING FLUID

VISTA

Based on the MSDS's for the two additives, it appears there could be a potential for these materials, although present in relatively small concentration, to result in some exposure by inhalation, and possibly cause the symptoms described.

Both additives are significantly more volatile than LPA-210 and could accumulate in vapor spaces or volatilize under normal use conditions. If that did occur, the toxic properties of the materials, as described on the MSDS's, could cause the symptoms described.

I realize the concentration is small, but how much do we know about the mixture's properties, and the use conditions? I'd suggest we get samples, if possible, or produce them to evaluate the potential for these additives to create an exposure potential. Also, please find out what you can about use conditions.

I'm also forwarding a copy of this memo and yours to Dave Penney for this evaluation.



T. G. Grumbles

dlj

cc: Dave Penney-Austin

w/o attachment/D. R. Person

VVV 000006253

**Interoffice
Communication**

TO: Pete Douvry

FROM: T. G. Grumbles

DATE: April 8, 1991

SUBJ: ATTACHED IOC RE: LPA-210 PURGING FLUID

VISTA

Based on the MSDS's for the two additives, it appears there could be a potential for these materials, although present in relatively small concentration, to result in some exposure by inhalation, and possibly cause the symptoms described.

Both additives are significantly more volatile than LPA-210 and could accumulate in vapor spaces or volatilize under normal use conditions. If that did occur, the toxic properties of the materials, as described on the MSDS's, could cause the symptoms described.

I realize the concentration is small, but how much do we know about the mixture's properties, and the use conditions? I'd suggest we get samples, if possible, or produce them to evaluate the potential for these additives to create an exposure potential. Also, please find out what you can about use conditions.

I'm also forwarding a copy of this memo and yours to Dave Penney for this evaluation.



T. G. Grumbles

dlj

cc: Dave Penney-Austin

w/o attachment/D. R. Person

VVV 000006254

Interoffice
Communication

TO: T. G. Grumbles

FROM: P. S. Douvry
DATE: March 13, 1991

SUBJECT: Health Concerns with Vista LPA-210 Purging Fluid

VISTA
LPA Solvents

I had an interesting conversation with Maj. Randy Gross, head of Bio-Environmental Services at Robins AFB in Georgia. On several occasions last year we sold Robins AFB truckload quantities of LPA-210 purging fluid. Last fall it was determined by Robins that our product was no longer acceptable.

Maj. Gross is responsible for evaluating potential health hazards of all products used on the base. In July, 1990 he received several complaints from users of LPA-210 purging fluid. Although his recollection of the incidents is somewhat hazy, the complaints centered around the odor of our product. He also seems to remember several incidences of headaches among users. He has no records of any more serious incidences. ?

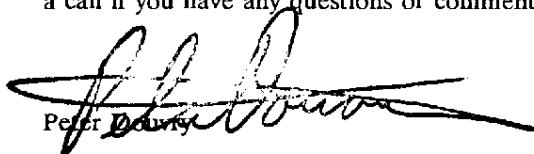
Maj. Gross compared MSDS's of our product and the competitive product, Phillips' Soltrol 220, and found the two products to be essentially identical. The only significant difference was the presence of two additives in our product. These additives were added in order to make our product conform with federal mil spec MIL-F-38299B. Maj. Gross feels that it is the presence of these additives that is causing the problem.

Mil spec MIL-F-38299B calls for the addition of two additives. An approved anti-oxidant is required if the purging fluid contains any blending stocks that have been hydrogen treated. The Phillips product does not contain an anti-oxidant, probably because it is not hydrotreated. In addition, an electrical conductivity additive must be added in sufficient concentration to increase the conductivity of the fluid to within the range of 200 to 600 picosiemens per meter. Since our product is hydrotreated, an anti-oxidant is called for. The electrical conductivity additive has automatically be added in the past - we are currently running tests to determine whether it is indeed necessary. The Phillips product also contains this additive.

MSDS's of both additives are attached. The anti-oxidant (either Anti-oxidant #30 or #31) is added in concentrations not less than 17.2 mg, nor more than 24 mg of active ingredient per liter of fuel.

In general, there are two major differences between Soltrol 220 and LPA-210 purging fluid. First, Soltrol 220 is essentially completely isoparaffinic. Secondly, it does not contain an anti-oxidant.

Your ideas on what might be causing Robins' problem would be appreciated. Please give me a call if you have any questions or comments concerning this issue.


Peter S. Douvry

/sfd

cc: JFL, DRP, JAH, File, MACF

VVV 000006255



LOW AND MIGHTY

DUPONT

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

NUMBER : 1507PC
NAME : ANTIOXIDANT NO. 30
CHEMICAL FAMILY : ALKYLATED PHENOL
TRADE NAMES AND SYNONYMS :
AO-30
CAS NAME : 2,4 XYLENOL, 6-TER. BUTYL
CAS NUMBER : 1879-09-0
DUPONT REGISTRY NUMBER : 059324
FORMULA : C12H18O
MANUFACTURER/DISTRIBUTOR : E.I. du Pont de Nemours & Co., Inc.
1007 Market Street
Wilmington, DE
19898

PRODUCT INFORMATION PHONE : 1-(800)441-7515
TRANSPORTATION EMERGENCY PHONE (CHEMTREC) : 1-(800)424-9300
MEDICAL EMERGENCY PHONE : 1-(800)441-3637

HAZARDOUS COMPONENTS

Material	CAS Number	%
2,4 XYLENOL, 6-TER. BUTYL	1879-09-0	> 97
OTHER ALKYLATED PHENOLS	NOT ASSIGNED	< 3

PHYSICAL DATA

Boiling Point : 250 deg C. at 760 mm Hg.
Melting Point : -6.7 deg C
Specific Gravity : 0.96 at 25 deg C.
Vapor Pressure : 10 mm Hg at 115 deg C.
Solubility in Water : 0 WT %
Odor : Phenolic
Form : Liquid
Color : Yellow

VVV 000006256

E-79681

HAZARDOUS REACTIVITY

Instability : Stable.
Incompatibility : Incompatible with strong acids.
Decomposition : Decomposition will not occur.
Polymerization : Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point : > 94 deg C. Method : FMCC

FIRE AND EXPLOSION HAZARDS

None.

EXTINGUISHING MEDIA

Water Spray. Chemical Foam. Dry Chemical. CO2.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

HEALTH HAZARD INFORMATION

Principal Health Hazards

Skin absorption ALD: 17 mg/kg on rabbits - highly toxic
ALD: 6,800 mg/kg on guinea pigs
Oral ALD: 53 mg/kg in rabbits - highly toxic
Oral LD50: 1,300 mg/kg in rats

The product is corrosive to skin and a severe eye irritant, but is untested as a skin sensitizer in animals. Product classified as Class B poison based on high toxicity to rabbits. No animal test reports are available to define chronic, carcinogenic, mutagenic, embryotoxic, or reproductive hazards.

Human health effects from ingestion, skin or eye contact may lead to skin burns or ulcerations and possibly acute poisoning from overexposure. Otherwise no acceptable information is available to predict the effects of excessive human exposure to this product.

Carcinogenicity

None of the components in this chemical is listed by

VVV 000006257

(HEALTH HAZARD INFORMATION - CONTINUED)

IARC, NTP, or OSHA as a carcinogen.

Exposure Limits

TLV * (ACGIH) : None Established

PEL (OSHA) : None Established

* TLV is a registered trademark.

Safety Precautions

Do not breathe vapor or mist. Do not get in eyes. Do not get on skin.
Do not get on clothing. Wash thoroughly after handling.

FIRST AID

INHALATION - If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, and call a physician.

SKIN CONTACT - In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

EYE CONTACT - In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION - If swallowed induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Gastric lavage may be advisable for significant ingestions.

PROTECTION INFORMATION

Generally Applicable Control Measures and Procedures

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container tightly closed. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Personal Protective Equipment

Eye/Face : Face mask.

Additional : Rubber suit.

Protective Gloves : Rubber.

VVV 000006258

DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with Federal, State, and Local regulations.

SHIPPING INFORMATION

Domestic - Other than Air (DOT)

Name : CORROSIVE LIQUID, POISONOUS, N.O.S.

(CONTAINS 2,4-DIMETHYL-6-TERT-BUTYL PHENOL)

Hazard Class : CORROSIVE MATERIAL

UN/NA no. : 2922

DOT Label(s) : SKIN CORROSIVE ONLY

Additional Information

Shipping Containers

Steel Drums : DOT 17E

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed.

Date of latest Revision : 85/10/23

Person Responsible for MSDS : R. V. DAUM

CHEMICALS & PIGMENTS

WILMINGTON, DE 19898

800-441-9442

VVV 000006259

10-Apr-86

Du Pont Material Safety Data Sheet

Page 5

MSDS No: 1760PC

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed. Store in accordance with National Fire Protection Assn regulations.

ADDITIONAL INFORMATION AND REFERENCES

AQUATIC TOXICITY FOR TOLUENE:

The compound is moderately toxic (96 hr. LC50 1-50 mg/l).
96 hr. LC50, fathead minnow: 34-42 mg/l.

Date of latest Revision : 85/10/21
Person Responsible for MSDS : R. V. DAUM
CHEMICALS & PIGMENTS
WILMINGTON, DE 19898
800-441-9442

VVV 000006260

DU PONT

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

NUMBER : 1508PC
NAME : ANTIOXIDANT NO. 31
CHEMICAL FAMILY : ALKYLATED PHENOLS
TRADE NAMES AND SYNONYMS :
AO-31
CAS NAME : 2,4 XYLENOL, 6 TER. BUTYL
CAS NUMBER : 1879-09-0
DUPONT REGISTRY NUMBER : 059325
FORMULA : C12H18O
MANUFACTURER/DISTRIBUTOR : E.I. du Pont de Nemours & Co., Inc.
1007 Market Street
Wilmington, DE
19898

PRODUCT INFORMATION PHONE : 1-(800)441-7515
TRANSPORTATION EMERGENCY PHONE (CHEMTREC) : 1-(800)424-9300
MEDICAL EMERGENCY PHONE : 1-(800)441-3637

HAZARDOUS COMPONENTS

Material	CAS Number	%
2,4 XYLENOL, 6 TER. BUTYL	1879-09-0	> 72
OTHER ALKYLATED PHENOLS	NOT ASSIGNED	< 28

PHYSICAL DATA

Boiling Point : ~ 249 deg C at 760 mm Hg.
Specific Gravity : 0.97 at 16 deg C.
Solubility in Water : 0 WT %
Odor : Phenolic
Form : Liquid
Color : Yellow

VVV 000006261

E-79682

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

23-Oct-85

Du Pont Material Safety Data Sheet

Page 2

MSDS no: 1508PC

HAZARDOUS REACTIVITY

Instability : Stable.
Incompatibility : Incompatible with strong acids.
Decomposition : Decomposition will not occur.
Polymerization : Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point : > 94 deg C. Method : PMCC

FIRE AND EXPLOSION HAZARDS

None.

EXTINGUISHING MEDIA

Water Spray. Chemical Foam. Dry Chemical. CO2.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

HEALTH HAZARD INFORMATION

Principal Health Hazards

Skin absorption ALD: 17 mg/kg on rabbits - highly toxic
ALD: 6,800 mg/kg on guinea pigs
Oral ALD: 53 mg/kg in rabbits - highly toxic
Oral LD50: 1,183 mg/kg in rats

The product is corrosive to skin and a severe eye irritant, but is untested as a skin sensitizer in animals. Product classified as Class B poison based on high toxicity to rabbits. No animal test reports are available to define chronic, carcinogenic, mutagenic, embryotoxic, or reproductive hazards.

Human health effects from ingestion, skin or eye contact may lead to skin burns or ulcerations and possibly acute poisoning from overexposure. Otherwise no acceptable information is available to predict the effects of excessive human exposure to this product.

Carcinogenicity

None of the components in this chemical is listed by

VVV 000006262

(HEALTH HAZARD INFORMATION - CONTINUED)

IARC, NTP, or OSHA as a carcinogen.

Exposure Limits

TLV * (ACGIH) : None Established
PEL (OSHA) : None Established

* TLV is a registered trademark.

Safety Precautions

Do not breathe vapor or mist. Do not get in eyes. Do not get on skin.
Do not get on clothing. Wash thoroughly after handling.

FIRST AID

INHALATION - If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, and call a physician.

SKIN CONTACT - In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

EYE CONTACT - In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION - If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Gastric lavage may be advisable for significant ingestions.

PROTECTION INFORMATION

Generally Applicable Control Measures and Procedures

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container tightly closed. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Personal Protective Equipment

Eye/Face : Face mask.

Additional : Rubber suit.

Protective Gloves : Rubber.

VVV 000006263

23-Oct-85

Du Pont Material Safety Data Sheet

Page 4

MSDS no: 1508PC

DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with Federal, State, and Local regulations.

SHIPPING INFORMATION

Domestic - Other than Air (DOT)

Name : CORROSIVE LIQUID, POISONOUS, N.O.S
(CONTAINS 2,4-DIMETHYL-6-TERT-BUTYL PHENOL)

Hazard Class : CORROSIVE MATERIAL
UN/NA no. : 2922
DOT Label(s) : SKIN CORROSIVE ONLY

Additional Information

Shipping Containers

Steel Drums : DOT 17E

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed.

Date of latest Revision : 85/10/23

Person Responsible for MSDS : R. V. DAUM

CHEMICALS & PIGMENTS
WILMINGTON, DE 19898
800-441-9442

VVV 000006264

VISTA CHEMICAL
RECEIVED

FEB 11 1988

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

NUMBER : 1760PC
NAME : "STADIS" 450 CONDUCTIVITY IMPROVER
CHEMICAL FAMILY : POLYMERIC NITROGEN & SULFUR COMPOUNDS
DUPONT REGISTRY NUMBER : 892048
MANUFACTURER/DISTRIBUTOR : E.I. du Pont de Nemours & Co., Inc.
1007 Market Street
Wilmington, DE 19898

PRODUCT INFORMATION PHONE : 1-(800)441-7515 9442
TRANSPORTATION EMERGENCY PHONE : 1-(800)424-9300
MEDICAL EMERGENCY PHONE : 1-(800)441-3637

HAZARDOUS COMPONENTS

Material	CAS Number	%
TOLUENE	108-88-3	60
ISOPROPYL ALCOHOL	67-63-0	3
MIXED AROMATIC SOLVENTS		8
THREE TRADE SECRET COMPONENTS		

PHYSICAL DATA

Boiling Point : IBP 90 deg C at 760 mm Hg.
Specific Gravity : 0.90 at 16 deg C.
Evaporation Rate : > 1 (Butyl Acetate = 1.0)
Odor : Of Toluene
Form : Liquid
Color : Amber
Solubility in H2O: Slight

HAZARDOUS REACTIVITY

Instability : Stable.
Incompatibility : None reasonably foreseeable.
Decomposition : Decomposition products formed: SO2
Polymerization : Polymerization will not occur.

E-79767

7/ 7.5 lb. fail \$10/26.
9/13 10 lb. and 1 lb. 2-2 day 26/26 / 10 lb. 26/26

VVV 000006265

10-Apr-86

Du Pont Material Safety Data Sheet

Page 2
MSDS No: 1760PC

FIRE AND EXPLOSION DATA

Flash Point : 4 deg C
Method : TCC

FIRE AND EXPLOSION HAZARDS

Flammable liquid.

EXTINGUISHING MEDIA

Water Spray. Chemical Foam. Dry Chemical. CO2.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

HEALTH HAZARD INFORMATION

Inhalation 1 hr. LC50: 26,700 ppm in rats (Toluene solvent)
- very low toxicity
Skin absorption LD50: > 2,250 mg/kg in rabbits (Toluene solvent) - low toxicity
Oral ALD: 7,500 mg/kg in rats - very low toxicity

The product contains skin irritants, eye irritants, and is untested for animal sensitization. Toxic effects expected in animals from exposure by inhalation, ingestion, or contact, largely attributable to TOLUENE, include neurologic depression, reversible liver changes, increased cardiac susceptibility to the arrhythmogenic effects of adrenalin, and bone marrow effects. Animal testing indicates that TOLUENE does not have carcinogenic, mutagenic, embryotoxic, nor reproductive effects. The product is otherwise untested for chronic toxicity.

Human health effects of overexposure by inhalation, ingestion, or skin or eye contact are largely attributable to TOLUENE and may initially include: reversible abnormal liver function as detected by laboratory tests; reversible abnormal kidney function as detected by laboratory tests; temporary nervous system depression with anaesthetic effects such as dizziness, headache, and confusion; irritation of the upper respiratory passages; and eye irritation with discomfort, tearing, or blurring of vision. Higher exposures may lead to these effects: nonspecific discomfort, such as nausea, headache, or weakness; nervous system depression with anaesthetic effects such as incoordination, and loss of consciousness; and fatality from gross overexposure. Significant skin permeation after contact appears unlikely.

VVV 000006266

(HEALTH HAZARD INFORMATION - CONTINUED)

There are no reports of human sensitization. Individuals with preexisting diseases of the central nervous system, cardiovascular system, liver, kidneys, and bone marrow may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity

None of the components in this chemical is listed by IARC, NTP, or OSHA as a carcinogen.

Exposure Limits

TLV * (ACGIH) : None Established
PEL (OSHA) : None Established

* TLV is a registered trademark.

FOR TOLUENE:

AEL (DUPONT): 100 ppm, (8 & 12 hr. TWA)
TLV (ACGIH): 100 ppm, 375 mg/m³; STEL: 150 ppm, 560 mg/m³
PEL (OSHA): None Established

FOR ISOPROPYL ALCOHOL:

AEL (DUPONT): 400 ppm (8 & 12 hr. TWA)
TLV (ACGIH): 400 ppm, 980 mg/m³; STEL: 500 ppm, 1225 mg/m³
PEL (OSHA): 400 ppm, 980 mg/m³

FOR MIXED AROMATIC SOLVENTS:
None Established

Safety Precautions

Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash thoroughly after handling.

FIRST AID

INHALATION - If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, and call a physician.

SKIN CONTACT - Flush skin with water after excessive contact.

EYE CONTACT - In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION - If swallowed, do not induce vomiting. Immediately give two glasses of water, or activated charcoal slurry. Never give anything by mouth to an unconscious person. Call a physician.

INSTRUCTIONS TO PHYSICIANS

To prepare activated charcoal slurry, suspend 50 g activated charcoal in 400 ml water in plastic bottle and shake well.

VVV 000006267

(FIRST AID - CONTINUED)

Administer 5 ml/kg, or 350 ml for an average adult.

PROTECTION INFORMATION

Generally Applicable Control Measures and Procedures

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container tightly closed. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Personal Protective Equipment

Eye/Face : Coverall chemical splash goggles.

Protective Gloves : Buna N rubber gloves

DISPOSAL INFORMATION

Aquatic Toxicity : SEE INFORMATION AND REFERENCES

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with Federal, State, and Local regulations.

SHIPPING INFORMATION

DOT

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE
& ISOPROPANOL)
Hazard Class : FLAMMABLE LIQUID
UN/NA No. : 1993

Shipping Containers

Steel Drums : DOT 17E lined

VVV 000006268

TO: Distribution

TGG: *see* *AC* *DF*
XF: *none*

FROM: T. G. Grumbles

DATE: April 8, 1991

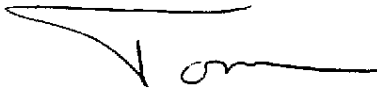
Interoffice
Communication

SUBJ: CONSTRUCTION PERMITS AND VARIANCES IN LOUISIANA

VISTA

The attached memos describe a change in the state policy regarding the issuance of construction variances prior to permit approval.

Bottom line is the practice has been discontinued. This will significantly affect the timing of permit submittal before commencing construction. As John Friend points out, EXAM construction received a construction variance one year prior to permit issuance.



T. G. Grumbles

dlj

Attachment

Distribution: D. Andersen, R. Flammer, W. I. B. Vogel, M. Sweet,
R. Bryan, J. Lopez, C. Pierson, R. T. Ferrell, G. W.
Inbody, R. H. Gerlach

VVV 000006269