ILLINOIS POLLUTION CONTROL BOARD July 19, 2005

IN THE MATTER OF:)
PROPOSED AMENDMENTS TO)
EXEMPTIONS FROM STATE)
PERMITTING REQUIREMENTS FOR)
PLASTIC INJECTION MOLDING)
OPERATIONS (35 ILL. ADM. CODE 201.146))

R05-20 (Rulemaking - Air)

CUMULATIVE EXHIBIT LIST

First Hearing: July 1, 2005, Chicago

Exhibit 1: The Chemical Industry of Illinois' (CICI) first errata sheet including amendments to proposed Section 201.146(hhh) and a correction to the pre-filed testimony of Mr. Lynne R. Harris.

Exhibit 2: Pre-filed testimony of Ms. Lisa Frede on behalf of CICI.

Exhibit 3: Pre-filed testimony of Mr. Lynne Harris on behalf of CICI, including attached Exhibits 1-11.

Exhibit 4: Plastic Injection Molding Machine - Sequence of Operation Diagram.

Exhibit 5: Pre-filed testimony of Ms. Patricia F. Sharkey on behalf of CICI.

Second Hearing: July 15, 2005, Springfield

<u>CICI Exhibit 6</u>: Second errata sheet and pre-filed testimony of Ms. Lisa Frede, Mr. Lynne Harris, and Ms. Patricia Sharkey on behalf of CICI.

CICI Exhibit 7: Sample of spru and associated plastic runner.

CICI Exhibit 8: Sample of plastic resin.

CICI Exhibit 9: Sample of end product.

CICI Exhibit 10: Sample of regrind.

<u>CICI Exhibit 11</u>: Photograph of color mixer.

<u>Agency Exhibit 1</u>: Prefiled testimony of Mr. Don Sutton on behalf of the Environmental Protection Agency (Agency).

CICI GUDUP EX 6 RUS-20

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IN THE MATTER OF:)	
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EXEMPTIONS FROM STATE)	R 05-20
PERMITTING REQUIREMENTS)	
FOR PLASTIC INJECTION MOLDING)	
OPERATIONS)	
(35 Ill. Admin. Code 201.146))	

NOTICE OF FILING

 TO: Ms. Dorothy M. Gunn Clerk of the Board
 Illinois Pollution Control Board
 100 West Randolph Street
 Suite 11-500
 Chicago, Illinois 60601
 (VIA ELECTRONIC FILING)

(PERSONS ON ATTACHED SERVICE LIST)

PLEASE TAKE NOTICE that on July 11, 2005, I filed with the Office of the Clerk of the Illinois Pollution Control Board by electronic filing the SECOND ERRATA SHEET and PRE-FILED TESTIMONY ON BEHALF OF THE CHEMICAL INDUSTRY COUNCIL OF ILLINOIS, a copy of which is hereby served upon you.

Dated: July 11, 2005

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Respectfully submitted,

CHEMICAL INDUSTRY COUNCIL OF ILLINOIS

By: <u>/s/ Patricia F. Sharkey</u> One of its Attorneys

Patricia F. Sharkey Mayer, Brown, Rowe & Maw LLP 71 South Wacker Drive Chicago, Illinois 60606-4637 (312) 782-0600

CERTIFICATE OF SERVICE

I, Patricia F. Sharkey, an attorney, hereby certify that I have served the Second Errata Sheet and Pre-Filed Testimony on Behalf of the Chemical Industry Council of Illinois upon:

Ms. Dorothy M. Gunn Clerk of the Board Illinois Pollution Control Board 100 West Randolph Street Suite 11-500 Chicago, Illinois 60601 (Electronic Mail)

n '

Matthew Dunn, Chief Division of Environmental Enforcement Office of the Attorney General 188 West Randolph Street, 20th Floor Chicago, Illinois 60601 (U.S. Mail)

Donald Sutton Manager, Permit Section Division of Air Pollution Bureau of Air Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (U.S. Mail) Charles E. Matoesian Division of Legal Counsel Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (U.S. Mail and E-Mail)

Office of Legal Services Illinois Department of Natural Resources One Natural Resources Way Springfield, Illinois 62702-1271 (U.S. Mail)

as indicated above, by e-mail and/or by depositing said document in the United States Mail, postage prepaid, in Chicago, Illinois on July 11, 2005.

<u>/s/ Patricia F. Sharkey</u> Patricia F. Sharkey

Patricia F. Sharkey Mayer, Brown, Rowe & Maw LLP 190 South LaSalle Street Chicago, Illinois 60603-3441 (312) 782-0600

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<u>CHEMICAL INDUSTRY COUNCIL OF ILLINOIS'</u> <u>SECOND ERRATA SHEET</u>

The Chemical Industry Council of Illinois ("CICI"), by its attorneys Mayer,

Brown, Rowe & Maw LLP, hereby submits the following corrections and amendments to

documents previously filed in this proceeding:

AMENDMENT TO PROPOSED REGULATORY LANGUAGE

CICI proposes to amend the text of its regulatory language, as proposed in its

original filing on April 19, 2005, as follows:

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION CHAPTER I: POLLUTION CONTROL BOARD PART 201 PERMITS AND GENERAL PROVISIONS

Section

201.146 Exemptions from State Permit Requirements

Construction or operating permits, pursuant to Sections 201.142, 201.143, and 201.144 of this Part, are not required for the classes of equipment and activities listed below in this Section. The permitting exemptions in this Section do not relieve the owner or operator of any source from any obligation to comply with any other applicable requirements, including the obligation to obtain a permit pursuant to Sections 9.1(d) and 39.5 of the Act, Sections 165, 173, and 502 of the Clean Air Act or any other applicable permit or registration requirements.

* * *

hhh)Plastic injection, compression, and transfer molding equipment with an annual
through-put not exceeding 5,000 tons of plastic resin and associated plastic
resin handling, loading, unloading, conveying, mixing, storage, grinding,
granulating, and drying equipment and associated mold release and mold
cleaning agents.

Respectfully submitted,

CHEMICAL INDUSTRY COUNCIL OF ILLINOIS

By: /s/ Patricia F. Sharkey One of Its Attorneys

Dated: _____July 11, 2005

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Patricia F. Sharkey Mayer, Brown, Rowe & Maw LLP 71 South Wacker Drive Chicago, Illinois 60606-4637 (312) 782-0600

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PRE-FILED TESTIMONY ON BEHALF OF THE CHEMICAL INDUSTRY COUNCIL OF ILLINOIS

In response to questions posed at the first hearing in this matter on July 1, 2005, CICI is herewith providing certain requested information. CICI witnesses, Lynne Harris, Lisa Frede, and Patricia Sharkey, will be present to answer questions regarding these responses at the July 15, 2005 hearing in Springfield.

1. Size of Facilities Exempted Under This Proposal

At the July 1, 2005 hearing, the Board asked how many PIM machines may be located at a given PIM facility. CICI has not found any studies or data directly addressing this question. However, CICI can state that its member facilities have between 4 and 70 machines.

Because the size of PIM machines varies, resin throughput is a better indicator of the volume of emissions associated with a given facility. CICI member facilities have annual PIM resin throughput ranging from 100 tons/yr to 3,250 tons/yr. Average facility annual PIM resin throughput is approximately 500 tons/yr.

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2. Estimated Volume of PIM Emissions Statewide in Illinois.

The Board asked what volume of emissions would be exempt from permitting under this exemption. A broad estimate of the total volume of emissions generated by PIM processes statewide can be derived by first multiplying the number of facilities in Illinois by the average volume of resin processed per facility, and then multiplying that number by an appropriate emission factor. As indicated in Mr. Harris' testimony, a worst case VOM emission factor is 0.4 lb/ton of resin processed. If we add to that a worst case emission factor of 0.4 lb/ton of resin processed for the use of release or cleaning agent, as discussed in Section 5 below, we arrive at a conservative overall VOM emission factor of 0.8 lb/ton of resin used.

Using the above information and the previous testimony that approximately 500 PIM facilities are located in Illinois, the formula for calculating statewide VOM emissions associated with PIM is as follows:

500 facilities X	500 tons resin /yr =	250,000 tons resin /yr
250,000 tons/yr X	0.8 lb VOM /ton resin =	100 tons VOM /yr

CICI believes 100 tons per year is a reasonable worst case estimate of the total volume of VOM emissions generated statewide by PIM facilities in Illinois. We note that this equates to 0.2 tons of VOM emissions per facility per year. We further note that not all of the approximately 500 PIM facilities in Illinois will be exempted from state permitting under the proposal in this rulemaking. In response to the Board's question regarding the number of PIM facilities that have no other processes, such as coating, SPI did a rough survey of its members and determined that approximately 80% of its members in the PIM industry do not perform other processes at the their facilities. This

indicates that around 20% of the approximately 500 Illinois PIM facilities will not be covered by this exemption. Thus total statewide emissions of VOM covered by this exemption are actually likely to be on the order of 80 tons per year.

To answer any concern the Board may have that there may be larger volumes of emissions involved, CICI has proposed in its Second Errata Sheet to limit the proposed exemption to PIM facilities with no more than 5,000 tons/yr of resin processed. If every facility in Illinois processed 5,000 tons of resin per year (an extraordinary assumption), the total VOM emissions subject to this exemption would be 1,000 tons/yr. That equates to approximately 2 tons of VOM per year per facility.

3. Location of PIM facilities in Illinois (Attainment Areas/Non-Attainment Areas)

The Board asked about the location of PIM facilities in the State and whether they were primarily located in Attainment or Non-Attainment Areas. To answer this question, CICI reviewed the locations of the Illinois facilities listed in the Plastic News "2005 Survey of North American Injection Molders" and the locations of CICI member facilities, and determined that 14% of those PIM facilities are located in Attainment Areas and the remaining 86 % are located in Non-Attainment Areas. Of those located in Non-Attainment Areas, all are located in areas which have been designated as Moderate NAA under the new 8-hour ozone standard.

4. Estimated Emission from Resin Handling Operations: Loading, Unloading, Conveying, Storage, Mixing, Grinding, Drying

As indicated at the July 1st hearing, CICI has attempted to find studies and other sources of information on the volume and type of emissions generated by the various activities associated with resin handling operations. We have found no studies directly addressing or quantifying emissions from these activities. This is actually not surprising. As indicated in Mr. Harris' June 16, 2005 Pre-Filed Testimony, emissions from the injection molding process as a whole had not been quantified prior to 1996. This lack of quantitative information on emissions may also be explained by the nature of the materials involved and the process. The resin and scrap are hardened plastic material at ambient and low temperatures. Furthermore, these ancillary activities operate under negative pressure, thus emissions from the movement of resin, the drying of the resin and the grinding of scrap plastic are largely, if not entirely, drawn back into the process.

The following information on how and where emissions are formed in this process may assist the Board in understanding that emissions from these ancillary activities are minimal.

a. VOM and HAP Emissions

VOM and HAP emissions from plastic resin are directly related to temperature. As found in the SPI studies accompanying Mr. Harris' Pre-Filed Testimony (Group Exhibit 3), "emission rates are directly correlatable with the melt temperature of the resin involved." (Group Exhibit 3, Harris Exhibit 3, p. 56.) Thermoplastic resins have melt temperatures in the range of 300 F – 600 F. (Group Exhibit 3, Harris Exhibits 3 – 6.) The SPI studies demonstrate that even at the melt temperatures reached in the extruder screw VOM and HAP emissions are low. Thus, the brief drying of the resin at far lower temperatures to remove moisture from the pellets can be presumed to generate only a fraction of those emissions. The ancillary resin loading, conveyance and mixing at ambient temperatures can be presumed to be even lower. To a varying degree, all plastic resins take on moisture when exposed to relative humidity. Even a minimal amount of moisture in many plastics can negatively affect molding characteristics. Dryers operated at low temperatures are often utilized to remove such moisture from plastic resin prior to the plastic injection molding process. The dryers blow heated ambient air over the plastic resins. The temperatures used for drying plastic resins are generally less than one half of the melting temperature of the plastic resin involved. (See attached Table 5.1 from the *Modern Plastics Handbook.*) Although CICI has not been able to find any data on emissions from dryers, emissions of VOM from plastic resin at the relatively low temperatures used in the drying process can be presumed to result in a small percentage of VOM or particulate emissions generated by the overall process.

The conclusion that VOM emissions from resin pellets handled at ambient temperatures are minimal is confirmed by the polyethylene study (Group Exhibit 3, Harris Exhibit 5) which measured emissions of VOC from the hopper area and found that emissions from this area accounted for less than 2% of the total VOCs measured. (Id., p. 577.)

b. Particulate Matter Emissions

There is an assumption that the movement of resin, even at ambient temperatures, generates some level of particulate matter ("PM"). However, CICI has been unable to find any EPA or industry studies of this subject.

To provide the Board with some perspective on the level of PM present at a PIM facility, CICI Regulatory Affairs Director Lisa Frede visited one of its member facilities on July 7, 2005. Ms. Frede will provide testimony at the July 15, 2005 hearing that she

found it to be exceedingly clean, with no dust or film on the floor or the equipment, including the grinder or granulator, which is presumed to be the piece of equipment most likely to produce PM. She will also testify that none of the employees in this workplace wear respiratory protection, indicating the indoor particle levels meet OSHA standards without such protection. One of the primary reasons that PM is so low in these facilities is that product specifications require that foreign material not enter the process. Another reason is that injection molding and the associated resin and scrap handling are almost entirely enclosed operations which take place under negative pressure.

Ms. Frede will provide photographs and her observations on the injection molding process. (See attached Photos Nos. 1 - 9.) As can be seen from the attached photographs, the resin is brought to the machine in a cardboard "gaylord" box and fed via vacuum hose into the dryer and the hopper. The screw extruder and the mold are entirely enclosed processes. When the mold opens, the product drops on to an open conveyor belt, which can be seen to have little or no dust on it. Ms. Frede will testify that the plastic product and plastic scrap leaving the mold are extremely clean. The scrap plastic "runners" and "sprus" are removed from the mold by way of a robotic arm which drops the scrap into the grinder or granulator. As can be seen from the attached photos, the grinder area has little or no dust. Again, this is because the grinder operates under negative pressure and both the scrap plastic and any associated dust are drawn into the grinder. Closing the loop, the granulated plastic, while somewhat dusty, is fed directly from the grinder back to the hopper to be reused in the process. This takes place by way of a vacuum hose.

Given the fact that these processes are so clean, there is little likelihood that PIM machines would be vented outside the workplace. CICI's survey of its member facilities indicates that none of those facilities vent PIM machines outside the workplace. Thus there is little likelihood of PIM emissions entering the outside environment. To the extent that a PIM facility has emissions of concern within the workplace, they are subject to OSHA standards and are not regulated under the Environmental Protection Act or air pollution control permits issued under the Board's rules.

At the July 15, 2005 hearing, Ms. Frede will be happy to answer any questions regarding her observations at this facility. CICI will also provide samples of a typical resin, typical "runner" and granulated scrap, and a typical PIM plastic product which Ms. Frede observed being handled and processed at this facility.

5. Mold Release Agents and Cleaning Agents

Mold release agent and/or mold cleaner are sometimes used in the plastic injection molding (PIM) process. Mold release agent leaves a very thin layer of a "nonstick" substance on the surface of the mold to help parts fall from the mold as it opens at the end of the cycle. Mold cleaner is used to remove built-up residue from the mold surface. Some CICI member facilities have designed their molds to avoid use of mold release altogether, but still use mold cleaner.

Historically, the volatile organic matter content of aerosol mold release agents and mold cleaning products was in excess of 90%. However, mold release agents and mold cleaning products are now available in water-based formulations and in formulations that utilize non-photochemically reactive chemicals as carrier solvents.

Both mold release agent and mold cleaner are generally used in 12-16 ounce aerosol cans. Based on data collected from CICI member facilities, VOM emissions from mold release agent and/or mold cleaner range from less than 0.1 lbs/ton of resin processed up to 0.4 lb/ton of resin processed. The combined usage of mold release agents and mold cleaner at a PIM facility can be conservatively estimated to generate 0.4 lbs of VOM per ton of resin processed.

In general, facilities try to design molds to minimize the use of mold release agents and mold cleaner because it is very inefficient to stop the PIM machine periodically to apply either release agent or cleaner to the mold. Well-designed molds require only a minimal amount of either substance. When possible, facilities try to apply mold release agent or mold cleaner only at the beginning of a production shift.

6. Definitions of "Compression Molding" and "Transfer Molding"

In response to a question from the Board, CICI is providing the following

definitions which appear on The Society of the Plastics Industry, Inc. ("SPI") website at

http://www.plasticsindustry.org.:

"Compression molding is the most common method of forming thermosetting materials. It is not generally used for thermoplastics.

"Compression molding is simply the squeezing of a material into a desired shape by application of heat and pressure to the material in a mold.

"Plastic molding powder, mixed with such materials or fillers as woodflour and cellulose to strengthen or give other added qualities to the finished product, is put directly into the open mold cavity. The mold is then closed, pressing down on the plastic and causing it to flow throughout the mold. It is while the heated mold is closed that the thermosetting material undergoes a chemical change which permanently hardens it into the shape of the mold. The three compression molding factors -- pressure, temperature and time the mold is closed -- vary with the design of the finished article and the material being molded."

"Transfer molding is most generally used for thermosetting plastics. This method is like compression molding in that the plastic is cured into an infusible state in a mold under heat and pressure. It differs from compression molding in that the plastic is heated to a point of plasticity before it reaches the mold and is forced into a closed mold by means of a hydraulically operated plunger.

"Transfer molding was developed to facilitate the molding of intricate products with small deep holes or numerous metal inserts. The dry mold compound used in compression molding sometimes disturbs the position of the metal inserts and the pins which form the holes. The liquefied plastic material in transfer molding flows around these metal parts without causing them to shift position."

As stated in the first hearing, CICI is no longer proposing that these processes be

included in the proposed exemption and does not plan to provide additional testimony

regarding these processes.

Dated: July 11, 2005

Respectfully submitted,

CHEMICAL INDUSTRY COUNCIL OF ILLINOIS

By: <u>/s/ Patricia F. Sharkey</u> One of its Attorneys

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Modern Plastics Handbook

Modern Plastics and

Charles A. Harper Editor in Chief

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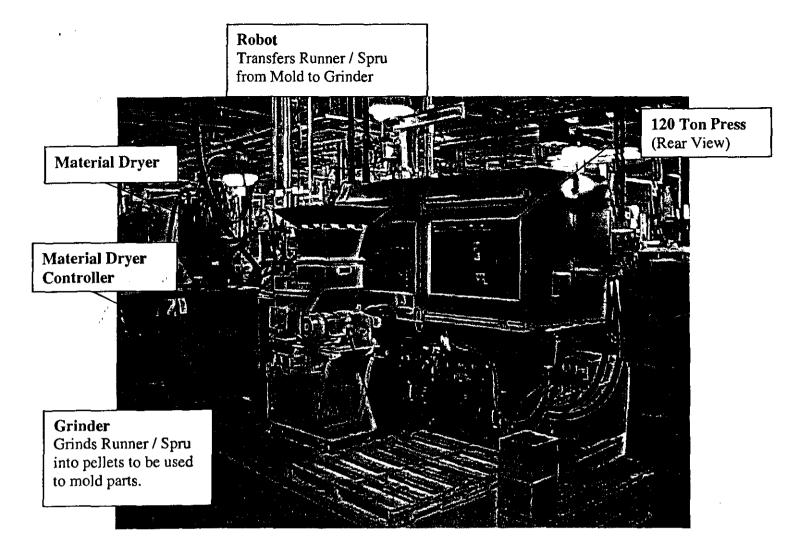
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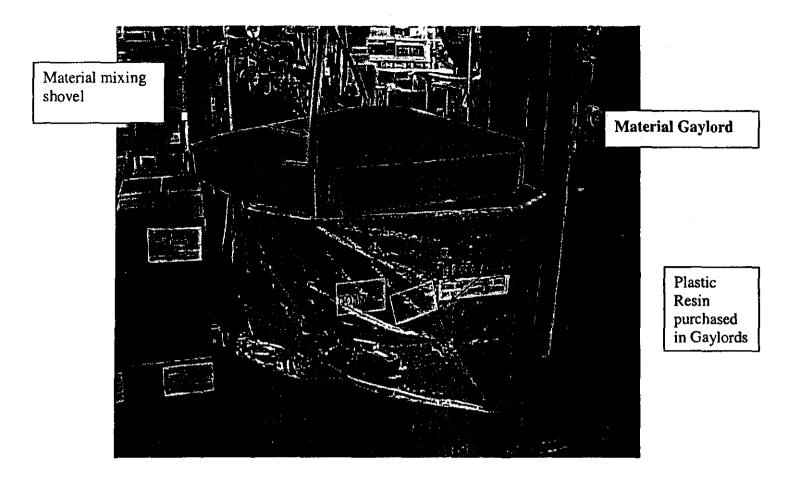
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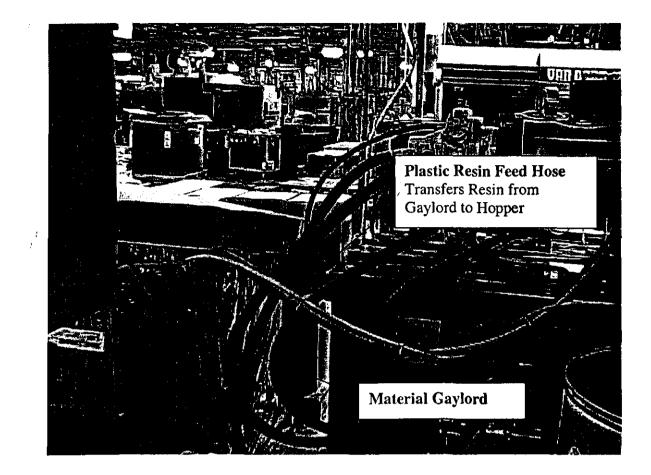
Water absorption, %	Maximum water, %	Textrusion:	Tinj. molding. C	T _{drying} , °C	f _{drying} , h
0.25-0.40	0.20	225	260	88	8-4
0.25	_	—	200	93	1-2
0.20-0.30	0.08	190	235	82	1-2
1.60	0.15	270	290	62	4-5
1.50	0.15	265	265	82	45
0.20	0.02	290	300	120	3-4
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While thermoplastic polymers soften at T_p , and if semicrystalline, melt at $T_{m\nu}$ cross-linked polymers do not melt and flow (Fig. 5.2c⁵). Lightly cross-linked polymers soften as the temperature exceeds T_p but they remain rubbery solids until the polymer decomposes. Highly cross-linked polymers often do not even soften and retain a high modulus until reaching the decomposition temperature. Thermoset resins, like unsaturated polyester, epoxy, and polyurethanes, have varied levels of cross-linking. However, thermoplastic resins can be modified to contain few cross-links; lightly cross-linked polyethylene (XLPE) often improves the mechanical properties of rotomolded parts.

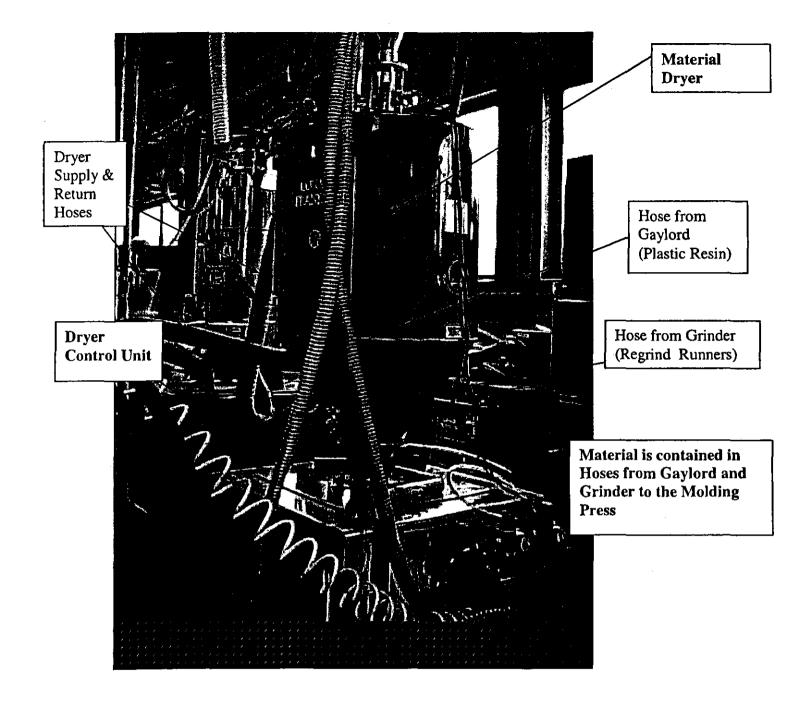
Some thermoplastics will decompose before they melt and flow. Extremely long polymer chains combined with intermolecular attractions prevent conventional melt processing of ultrahigh-molecular-



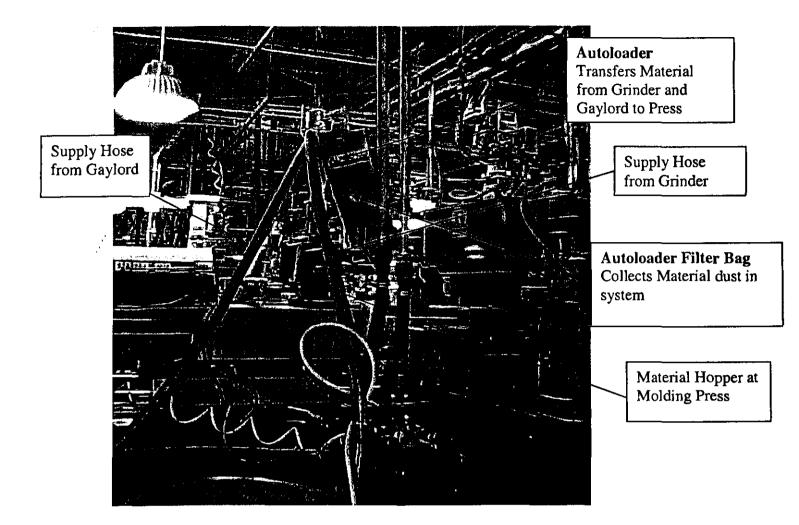




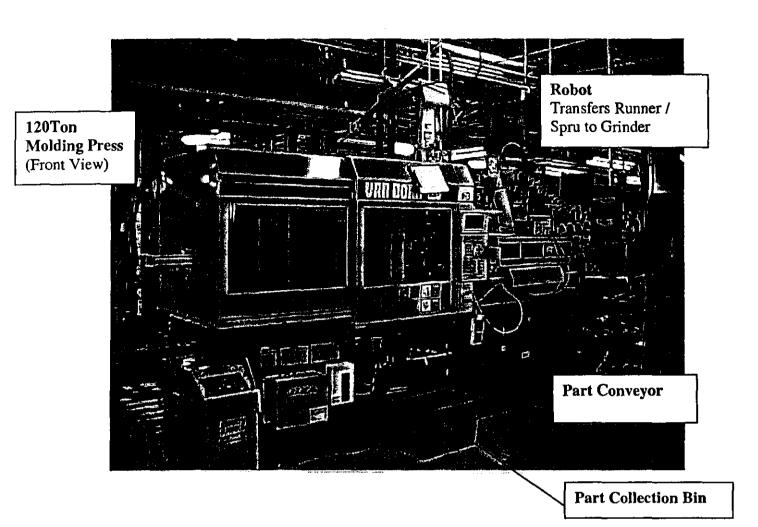
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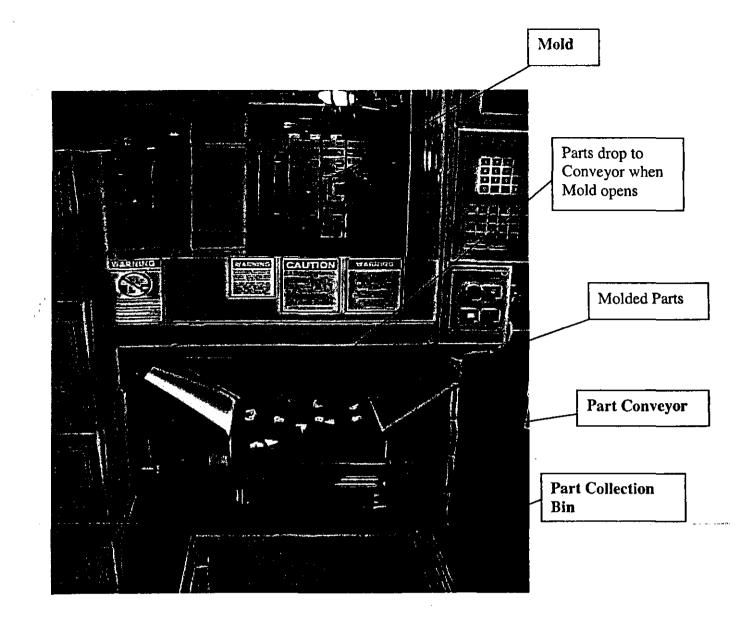


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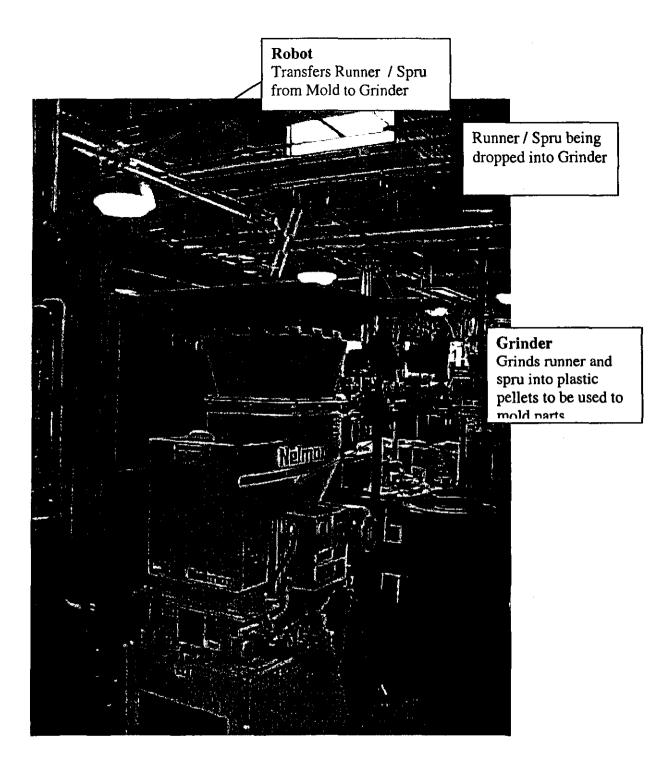


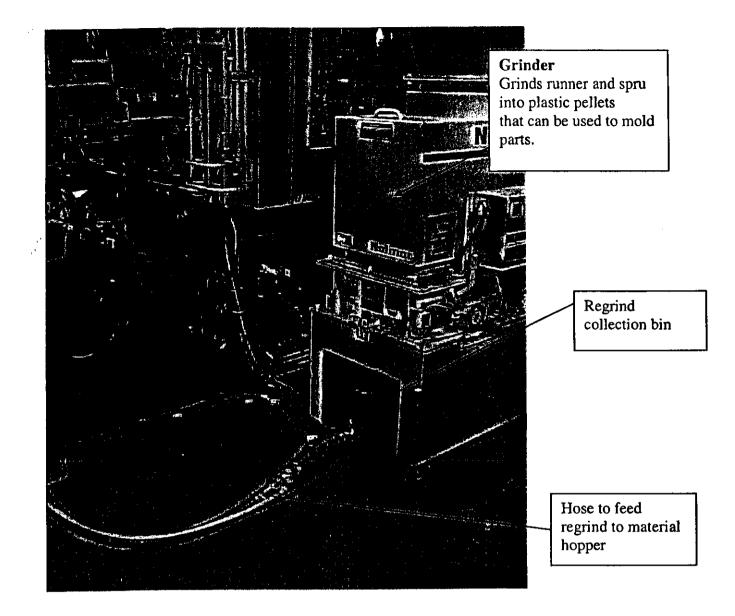
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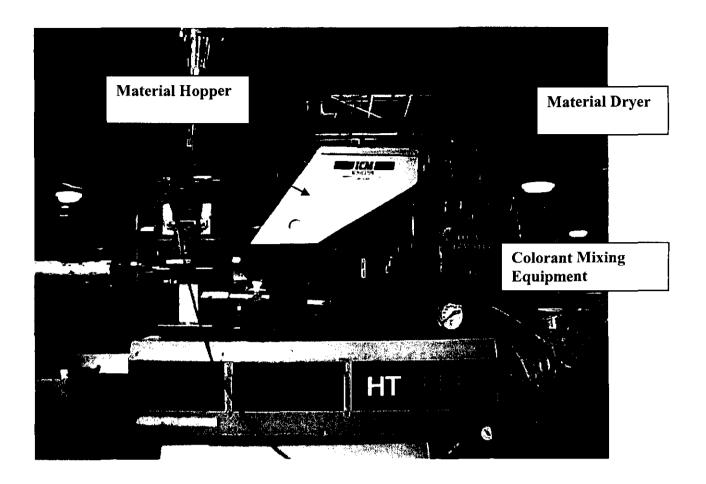


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PRE-FILED TESTIMONY OF DONALD E. SUTTON ON BEHALF OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

I am Donald E. Sutton, P.E. I have been manager of the manager of the Division of Air Pollution Control Permit Section since July 1991. The following is my testimony that provides the Agency's view of this proposed rulemaking.

PROPOSAL DEVELOPMENT

In 1996, the Board adopted revised rules providing to expand, clarify and modify the list of emission units and activities that are exempt from state air permitting requirements specified at 35 Ill. Adm. Code 201.142, 201.143, and 201.144. Amendments to Exemptions From State Permit Requirements: 35 Ill. Adm. Code 201 and 211, R96-17 (effective July 31, 1998). These amendments updated terminology and certain amendments are intended to clarify the types of activities or emission units that are covered by a particular exemption such as the exemption for fuel combustion equipment.

In 1997, Section 39 of the Act (415 ILCS 5/et. seq.) was amended to establish a *lifetime* permit program. Pursuant to P.A. 90-367, effective June 17, 1998, the Board adopted revised rules providing that emission sources not subject to Section 39.5 of the Act or required to have a federally enforceable state operating permit ("FESOP") shall have operating permits that are required to be renewed only upon request by the Agency or if circumstances warrant a revised permit. Amendments to General Permitting Provisions to Require Perpetual Permits for Certain Sources: Amendment to 35 Ill. Adm. Code 201, R98-13 (June 17, 1998). Circumstances requiring a revised operating permit or construction permit include change in ownership, construction or modification of an emission unit at a source pursuant to Section 201.169(c). "Construction" is defined as "commencement of on-site fabrication, erection or installation of an emission source or of air pollution control equipment." 35 Ill. Adm. Code 201.102.

In 2003, the Board adopted rules to amend its permitting rules for the control of air pollution section 201.142 and add section 201.170 (35 Ill. Adm. Code 201.142). The

Agency Entrili # 1

adopted rules exempted certain smaller emissions sources from the requirement for owners and operators to obtain new construction permits that were required by Section 39 of the Act (415 ILCS 5/39 (2000)) each time the site of small emission units are changed. Amendments to General Permitting Provisions for Portable Emission Units: Amendments to 35 Ill. Adm. Code 201, R02-10 (February 6, 2003).

Earlier this year, the Agency and the Illinois Environmental Regulatory Group (IERG) jointly proposed to the Board additional categories to the permit exemptions in Section 201.146. This prior rulemaking, which the Board has docketed R05-19, includes four additional categories of permit exemptions will allow more efficient allocation of Illinois EPA resources during a time of budget concerns. The proposed additions to Section 201.146 are below:

- a. Replacement or Addition of Air Pollution Control Equipment for Existing Emission Units Proposed Section 201.146(hhh).
- b. New Emission Units and Modifications to Existing Emission Units at Facilities with Federally Enforceable State Operating Permits - Proposed Section 201.146(iii).
- c. New Emission Units or Modifications to Existing Emission Units at Permitted Sources That Are Not Major Sources or FESOPs - Proposed Section 201.146(jjj).
- d. Insignificant Activities at Clean Air Act Permit Program Sources -Proposed Section 201.146(kkk).

PROPOSAL

This proposed rulemaking (R05-20) would seek to add one more category to the permit exemptions in Section 201.146 for plastic injection molding operations using 5,000 tons of plastic resin per year or less. This exemption does not threaten the public health or welfare.

The Agency understands that the primary effect of the proposed amendment is to expand the list of activities and emission units that would qualify for exemption from state air permitting requirements by adding a new category of activities or emission units for the exemptions. The activities and emission units, which are proposed for exemption, are based on the historical experience of the Agency that such emissions units should not merit permitting going forward as the emissions from the units or activities are minimal. Further, individual information on these activities will not be needed for purposes of air quality planning.

The amendment to Section 201.146 exempts from state construction and operating permitting the plastic injection molding equipment with an annual through-put not exceeding 10,000,000 pounds of plastic resin and associated plastic resin loading,

unloading, conveying, mixing, storage, grinding, and drying equipment and associated mold release and mold cleaning agents. The Agency has reviewed the proposed language and has determined that these emission units are not subject to any federal New Source Performance Standards (NSPS) under 40 CFR 60 or to subject to any federal National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR 61 or 63.

The Agency also believes that the proposed amendments do not alter or affect the liability of an owner or operator of such plastic injection molding machines for compliance with emission standards and other requirements that apply to such emission units or activities, either individually or in conjunction with other emission units or activities constructed, modified or located at the source.

ECONOMIC REASONABLENESS AND TECHNICAL FEASIBILITY

It is the Agency's opinion that the proposed amendments expand the list of exemptions from state air permit requirements. Thus, this proposal does not pose any issues with respect to technical feasibility. The additional exemptions will not significantly impact the effectiveness of the permit program and may help focus attention on the more "important emission units".

I have been asked in previous hearings before the Board, specifically during Rulemaking R05-19, about the cumulative effect of exempting a large number of sources of air pollution based on low or "de minus" emission levels. This question was also brought during the previous hearing for this Rulemaking (R05-20). To address this question, there are a number of regulatory schemes that would remain applicable in which this new exemption from permitting will have no effect. For example, a determination whether a source is considered to be major under USEPA regulations is dependent on the potential emissions of a source from all emission units regardless of the state permitting requirements upon that source or those units. The state of Illinois does not have a right to override a federal requirement, such as New Source Review or Title V permitting. There could be a point in time that if you have enough emission units that are exempt from the requirements to obtain a state permit, that you could actually trigger a higher level requirement. The Chemical Industry Council of Illinois (CICI) will provide testimony that the emissions from these sources are approximately between a half a ton per year to two tons per year and most regulatory triggers, besides hazardous air pollutants (HAP), will be in the 100 ton per year level. Most of the sources in Illinois with Lifetime State Operating permits have permitted emissions less than 25 tons per year of all pollutants and actual emissions range from two to five tons per year. We currently have 6,800 permitted sources in Illinois. Of that total, we have roughly 4,900 sources that have permits that keeps their emissions to less than 25 tons per year.

As an economic matter the proposal will reduce costs as the amendments expand the list of exemptions and many affected sources will be relieved of the requirement to obtain a state permit. A cost savings will result as those sources which no longer require permits will be relieved of the need to collect data, prepare permit applications and submit permit fees. The loss of permit fees should not affect the Agency, as the loss of revenue from eliminating permitting of these sources will be matched by the savings by eliminating the cost of reviewing such permit applications. The sources most affected by this proposed rulemaking currently pay the minimum amount of air pollution operating permit fees or the minimum construction permit application fees yet the processing of applications for such proposed activities or emission units covered by this proposed amendment may take almost as long to process as the projects for activities or emission units that will remain subject to the construction and operating permit requirements.

Another question raised in the previous hearing before the Board for this rulemaking was whether this proposal would cause more plastic injection molding businesses to come to Illinois and whether this would have an impact on increasing emissions from this industry. The regulatory burden on this industry to obtain air pollution control permits is currently not that great and should not have been a deterrent to the plastics industry. These types of sources generally would have a Lifetime State operating permit and would pay the minimum construction permit application and operating site fees. Other states within USEPA's Region 5 already have similar permitting exemptions for this industry as the one proposed in this amendment. We agree with Ms. Sharkey's response to this same question during the previous hearing.

At the July 1, 2005 hearing for this rulemaking, Anand Rao from the Board's technical unit asked the Agency whether we view plastic injection molding as an extrusion operation. It is the Agency's view that injection molding is a different type of operation from extrusion, and thus the Agency does not view injection molding machines as being exempt from permitting under the extruder exemption found in 201.146(cc).

The Agency is willing to answer any questions about these proposed amendments or address any comments you may have.

STATE OF ILLINOIS

) SS.

COUNTY OF SANGAMON

PROOF OF SERVICE

I, the undersigned, on oath state that I have served the attached Illinois Environmental Protection Agency's First Correction to the Transcript of the Hearing held July 1, 2005 concerning the Amendments to 35 Ill. Adm. Code 201.146 and Pre-filed Testimony of Donald E. Sutton on behalf of the Illinois Environmental Protection Agency upon the person to whom it is directed, by placing it in an envelope addressed to:

TO: Dorothy Gunn, Clerk
 Illinois Pollution Control Board
 James R. Thompson Center
 100 W. Randolph Street, Suite 11-500
 Chicago, Illinois 60601

Amy Antoniolli, Hearing Officer Illinois Pollution Control Board James R. Thompson Center 100 W. Randolph Street, Suite 11-500 Chicago, Illinois 60601

SEE ATTACHED SERVICE LIST

and mailing it by First Class Mail from Springfield, Illinois on July 11, 2005, with sufficient

postage affixed.

Cynthia Sim

SUBSCRIBED AND SWORN TO BEFORE ME

this 11th day of July, 2005

Notary Public

THIS FILING IS SUBMITTED ON RECYCLED PAPER

SERVICE LIST R 05-20

Office of Legal Services Illinois Department of Natural Resources One Natural Resources Way Springfield, Illinois 62702-1271

Matthew Dunn, Chief Division of Environmental Enforcement Office of the Attorney General 188 West Randolph Street, 20th Floor Chicago, Illinois 60601 Patricia F. Sharkey Mayer, Brown, Rowe & Maw LLP 71 South Wacker Drive Chicago, Illinois 60606-4637

Heidi E. Hanson H. E. Hanson, Esq. P.C. 4721 Franklin Avenue Suite 1500 Western Springs, Illinois 60558-1720

IN THE MATTER OF:)	
)	
PROPOSED AMENDMENTS TO)	
EXEMPTIONS FROM STATE)	
PERMITTING REQUIREMENTS)	
FOR PLASTIC INJECTION MOLDIN	G)	R 05 -20
OPERATIONS)	
(35 Ill. Admin. Code 201.146))	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S FIRST CORRECTION TO THE TRANSCRIPT OF THE HEARING HELD JULY 1, 2005 CONCERNING THE AMENDMENTS TO 35 ILL. ADM. CODE 201.146

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA"), by

and through its attorney Charles Matoesian, and submits this first correction to the

transcript for the hearing held July 1, 2005 in the Matter of: Amendments to 35 Ill. Adm.

Code 201.146. The Illinois EPA proposes the following amendment to the transcript.

On page 47 of the transcript, line 23, the record states "the ABT technical staff..." when it should state "the Agency technical staff...".

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Charles E. Matoesian

DATED: July 11, 2005 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 (217) 782-5544

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