



**Greater Vancouver Regional District**  
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

*Policy and Planning Department*  
Telephone (604) 432-6375  
Fax (604) 436-6970

# PERMIT

(Under the provisions of the GVRD Air Quality Management Bylaw No. 937, 1999  
and the BC Environmental Management Act)

HALLMARK POULTRY PROCESSORS LTD.

IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS

FROM A POULTRY PROCESSING FACILITY & LIVE BIRD TRANSFER BUILDING

LOCATED AT 1750 FRANKLIN ST, VANCOUVER BC V5L 1M1

This permit has been issued under the terms and conditions  
prescribed in the attached Schedules A, B, C, D, E, F, G & H  
for works existing or planned on November 10, 2004

A handwritten signature in black ink, appearing to be 'JAW', written over a horizontal line.

DISTRICT DIRECTOR  
PERMIT NUMBER GVA1011

**INDEX OF SCHEDULES**

Schedule A.....Site Plan

Schedule B.....General Requirements

Schedule C.....Emission Monitoring, Sampling and Reporting Requirements

Schedule D.....Emission Sources and Discharge Points

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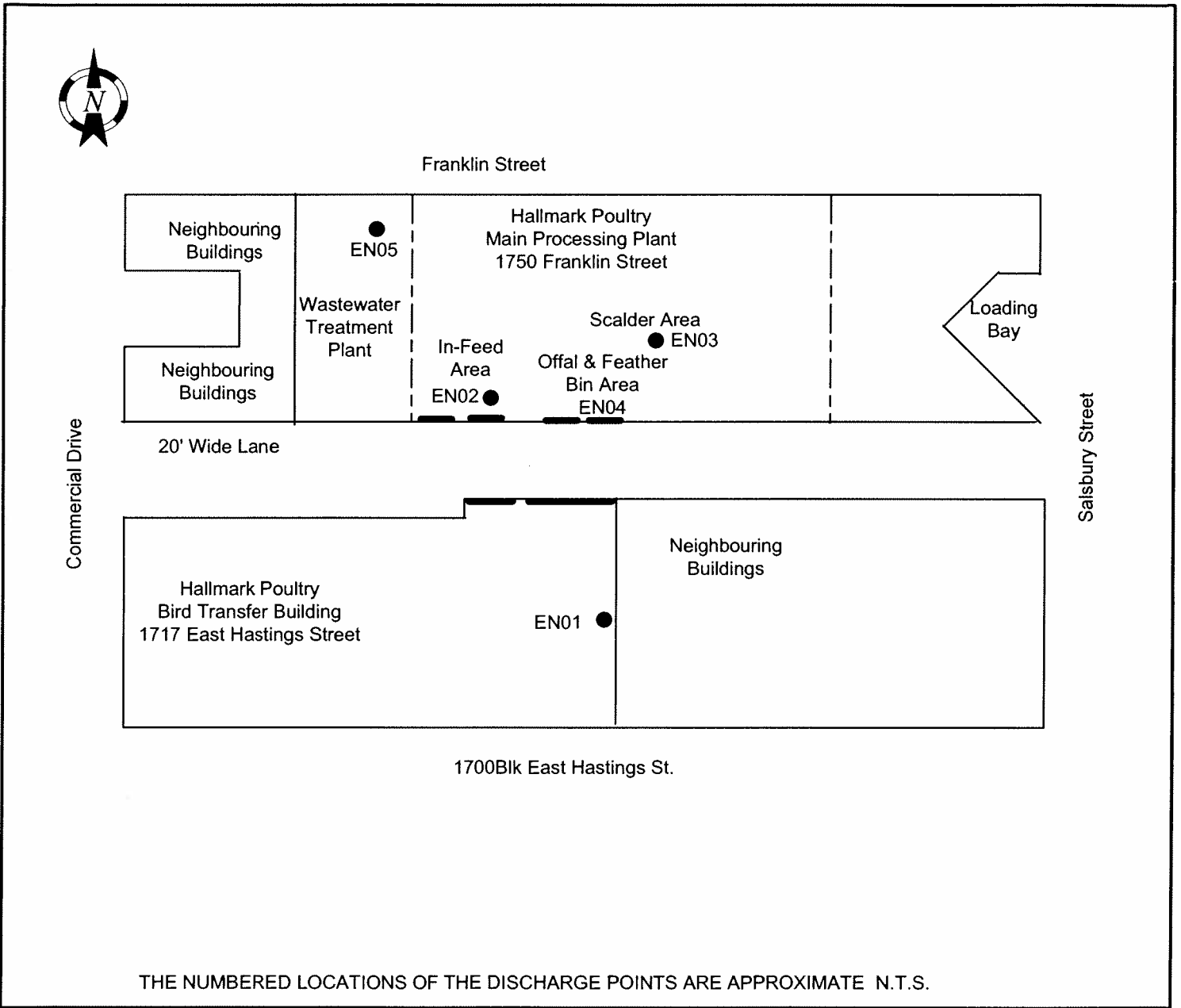
Schedule F.....Authorized Discharge Criteria

Schedule G.....Authorized Works and Procedures

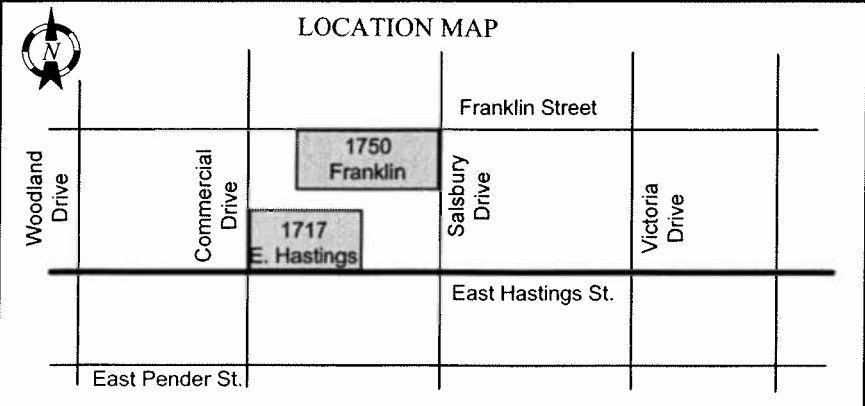
Schedule H.....Record of Permit Issuance Dates

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SCHEDULE A - Page 1  
to PERMIT GVA1011



THE NUMBERED LOCATIONS OF THE DISCHARGE POINTS ARE APPROXIMATE N.T.S.



November 10, 2004

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Schedule A to Permit No. GVA1011

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**SCHEDULE B - Page 1  
to PERMIT GVA1011**

**A AMENDMENTS**

The terms and conditions of this Permit may be amended, as authorized by applicable legislation.

**B MAINTENANCE AND OPERATION OF WORKS**

Works and procedures, which this Permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The Permittee shall regularly inspect and maintain all such works in good repair.

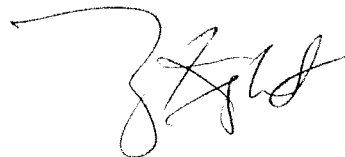
**C EMERGENCY PROCEDURES**

An emergency or other condition may prevent the continuous utilization of the above authorized works and procedures, or may result in a discharge of air contaminants which is not authorized by this Permit. If such a situation occurs, the Permittee shall report the circumstances of this event to the Greater Vancouver Regional District, Policy and Planning Department at 604-436-6777 (24 hours), at the first available opportunity.

No discharge that has bypassed control works is authorized unless the District Director's approval has been obtained. In the event of an emergency, bypassing facilities may be used for such periods as are necessary to effect a shutdown of the related processes.

**D AIR CONDITIONING, HEATING AND VENTILATION SYSTEMS**

Air contaminants discharged from any natural gas-fired air conditioning, heating or ventilation systems for buildings located at the discharge site are not specified in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants. Notwithstanding the above, the District Director may at her/his discretion stipulate limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.



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**SCHEDULE B - Page 2  
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**E GENERAL SITE RESTRICTIONS**

No air contaminant(s) from any single source, or combination of sources shall pass the boundary of the property, described in Section I of this Schedule B, such that the District Director determines that pollution has occurred.

**F INTERNAL COMBUSTION ENGINES**

Air contaminants discharged from any natural gas, propane, gasoline, diesel, or other fossil fuel fired internal combustion engines operated at the discharge site may not be specifically authorized in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel and to minimize emissions such that the requirements of Section E of this Schedule B are not exceeded. The District Director may at her/his discretion stipulate further limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

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**G ENGINEERING UNITS**

The engineering units specified in this Permit are in accordance with the Metric System of measure. Approximate equivalent values for the British System can be calculated using the following conversion factors.

$\text{mg/m}^3 \times 0.000437 = \text{gr/cf}$   
 $\text{m}^3/\text{min} \times 35.3 = \text{cf/min}$   
 $\text{kg/m}^3 \times 0.0624 = \text{lbs/cf}$   
 $\text{kg/L} \times 10.0 = \text{lbs/gal}$   
 $\text{mg/m}^3 \times 24.0/\text{M} = \text{ppm (by volume)}$   
 $\text{GJ/h} \times 0.9478 = \text{MMBTU/h}$

where

$\text{m}^3 = \text{cubic metre}$   
 $\text{min} = \text{minute}$   
 $\text{mg} = \text{milligram}$   
 $\text{cf} = \text{cubic feet}$   
 $\text{s} = \text{second}$   
 $\text{lb} = \text{pound}$   
 $\text{kg} = \text{kilogram}$   
 $\text{gal} = \text{gallon}$   
 $\text{L} = \text{litre}$   
 $\text{M} = \text{molecular weight}$   
 $\text{gr} = \text{grain}$   
 $\text{ppm} = \text{parts per million}$   
 $\text{GJ} = \text{GigaJoule}$   
 $\text{MMBTU} = \text{Million British Thermal Unit}$   
 $\text{h} = \text{hour}$



**SCHEDULE B - Page 4  
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**H STANDARD CONDITIONS AND DEFINITIONS**

Except where otherwise indicated, the following standard conditions and definitions apply to this Permit.

1. The Restrictions in the attached Schedules are maximum limits.
2. Gaseous volumes are corrected to dry conditions of 20° Celsius & 760mm Hg.
3. Particulate matter from combustion sources is corrected to 12% Carbon Dioxide.
4. Opacity is measured at the point of maximum density, nearest the discharge point.
5. Opacity measurements exclude the effect of condensed, uncombined water droplets.
6. Definitions in the Environmental Management Act and GVRD Air Quality Management Bylaw current at the time of issuance of this Permit apply to terminology used in this Permit. If the Permit is subsequently amended, definitions in the Environmental Management Act and GVRD Air Quality Management Bylaw current at the time of amendment shall apply to terminology used in this Permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook for the year 2004.
8. Any production, storage, transportation, handling, treatment, processing or ownership of a hazardous waste must comply with the requirements of the Environmental Management Act Hazardous Waste Regulation (BC Reg. 63/88).



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**SCHEDULE B - Page 5  
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**I DESCRIPTION OF DISCHARGE SITE**

The land from which the air contaminants are discharged is described as:

"City of Vancouver Parcel Identifier: 025-165-011 Parcel "B" of Lot 4 Block D District Lot 183 Group 1 New Westminster District Plan LMP51529"

"City of Vancouver Parcel Identifier: 015-164-420 Lot 16 of Lot 4 Block D District Lot 183 Plan 729"

"City of Vancouver Parcel Identifier: 015-164-446 Lot 17 of Lot 4 Block D District Lot 183 Plan 729"

"City of Vancouver Parcel Identifier: 015-164-462 Lot 18 of Lot 4 Block D District Lot 183 Plan 729"

"City of Vancouver Parcel Identifier: 015-164-471 Lot 19 of Lot 4 Block D District Lot 183 Plan 729"

"City of Vancouver Parcel Identifier: 015-164-497 Lot 20, Except the West 7 feet and Part in Explanatory Plan VAP20605 Now Road of Lot 4 Block D District Lot 183 Plan 729"





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**SCHEDULE C - Page 1  
to PERMIT GVA1011**

This Schedule describes emission monitoring, sampling and reporting requirements.

The Permittee shall conduct the following monitoring and sampling program on the discharges and submit the results to the District Director. The need for increased or decreased monitoring may be reviewed periodically by the District Director.

<b>EMISSION NUMBER</b>	<b>DUE DATES</b>	<b>REQUIREMENTS</b>
01	March 31, 2005	The discharge rate and concentration of particulate matter, ammonia and amines in the emission. The report shall also include an evaluation and confirmation of the odour removal efficiency of the authorized works for the bird transfer building (EN01).
01	See Requirements	Permittee shall continuously monitor and record wind speed, wind direction and ambient temperature. Records are to be maintained and made available for inspection by GVRD Policy and Planning staff for a minimum period of three years.
01	See Requirements	Permittee shall continuously monitor the differential pressure (pressure drop) of the venturi scrubber. The monitored pressure drop (inches of water) is to be recorded once each production day. Records are to be maintained and made available for inspection by GVRD Policy and Planning staff for a minimum period of three years.



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SCHEDULE C - Page 2  
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EMISSION NUMBER	DUE DATES	REQUIREMENTS
General	March 31, 2005	Written report from a Professional Engineer confirming the implementation of the final recommendations of the Hallmark Poultry Processors Ltd. Pollution Prevention Plan dated July 24, 2003 including supplemental information dates November 28, 2003, March 18 and June 14, 2004. The report shall include confirmation of installation and operation of the recommended control works and procedures as well as the application of good engineering practice (GEP) to the discharge stacks associated with the emission sources. A standard operating practice for the operation of the Air8/REITHER venturi scrubber control works is also to be submitted. The report shall also confirm that a negative building pressure can be maintained for EN01, 02 and 04 so as to eliminate fugitive odorous emissions from the facility.
General	September 30, 2005	Written report prepared by a Professional Engineer evaluating the effectiveness of the Hallmark Poultry Processors Ltd. Pollution Prevention Plan dated July 24, 2003 including supplemental information dates November 28, 2003, March 18 and June 14, 2004 in achieving the goal of odour abatement. Report shall also include a summary of all complaints registered against the facility since the issuance of the Permit together with summary of actions taken to resolve the complaints. The report is to include recommendations for any follow-up monitoring, testing and/or addition of works or procedures to ensure long-term compliance.

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EMISSION NUMBER	DUE DATES	REQUIREMENTS
General	See Requirements	The Permittee shall provide a contact person(s) who is available and responsible for responding to air quality related complaints. The Permittee shall maintain a written record of air quality related complaints that shall include the date, time and location the impact was noticed together with a description of the reported impact. The name, address and phone number of the complainant should also be included where it is not a direct referral from the GVRD. The Permittee is to submit a written report within 24 hours of the time when the complaint was received detailing the investigation and any actions implemented or proposed for resolution of the complaint. Written complaint records are to be maintained and made available for inspection by GVRD Policy and Planning staff for a minimum period of three years.
General	December 31, 2004 March 31, 2005	Written report regarding progress to construct an enclosed overhead conveyor between the bird transfer building and processing plant. The report should include a schedule for completion of the conveyor together with copies of any related external correspondence related to this matter.
General	March 31, 2005 and annually thereafter	Written report detailing the types and amounts of principal products produced and raw materials used in the preceding calendar year.



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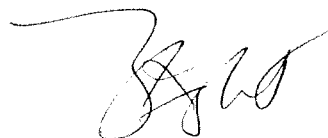
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Unless otherwise approved by the District Director prior to any sampling or analysis, all emission measurements shall be performed by an independent agency in accordance with those procedures described in applicable source test codes and laboratory manuals which have been published by the British Columbia Ministry of Water, Land and Air Protection, as they may be amended from time to time. Any variance from these procedures must receive prior approval from the District Director. Monitoring results shall be reported in the metric units which are used in this Permit to specify the authorized discharge criteria. These submissions shall include the production rate at the time of the test, and all field data and calculations. In addition, the Permittee shall provide the Greater Vancouver Regional District, Policy and Planning Department, with a minimum of 3 working days advance notice before any emission measurements required by this Monitoring and Sampling Program are carried out.

Ambient air sampling and monitoring shall be undertaken by the Permittee, when required by the District Director.

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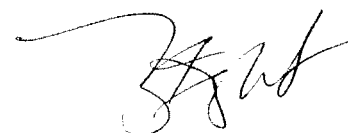
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**SCHEDULE D - Page 1  
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The authorized emission sources and discharge points located approximately as shown on Schedule A are as listed below. New works, or alterations to existing works, must be approved, in principle, by the District Director.

<b>EMISSION NUMBER</b>	<b>EMISSION SOURCE</b>	<b>DISCHARGE POINT</b>
01	Bird transfer building (includes bird receiving, holding and transfer)	Stack(s)
02	Bird infeed area	Stack(s)
03	Scalder area	Stack(s)
04	Offal and feather storage bin area	Building Opening(s)
05	Wastewater treatment (DAF) plant	Stack(s)

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**SCHEDULE E - Page 1  
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The authorized rates of discharge for the works described in Schedules D and G are:

<b>EMISSION NUMBER</b>	<b>MAXIMUM AUTHORIZED RATE OF DISCHARGE</b>			<b>NOTES &amp; ADDITIONAL REQUIREMENTS</b>
	FLOW m3/min	DURATION hours/day	FREQUENCY days/week	
01	1,800	24	7	
02	100	24	7	
03	200	24	7	
04	See Notes	24	7	Natural draft.
05	100	24	7	



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**SCHEDULE F - PAGE 1  
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The authorized maximum discharge criteria for works described in Schedules D and G are:

<b>EMISSION NUMBER</b>	<b>PARAMETER</b>	<b>RESTRICTION</b>	<b>NOTES</b>
01, 02	Particulate Matter	15 mg/m <sup>3</sup>	
01, 02, 03, 04, 05	Odour	See notes	None past the plant boundary such that the District Director determines that pollution has occurred.

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**SCHEDULE G - Page 1  
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The authorized emission control works and procedures to control the discharge of air contaminants from the emission sources described in Schedule D are indicated below. The District Director may require that further works be installed, if the existing works, in her/his opinion, do not provide an acceptable level of emission control. New works or alterations to existing works must be approved, in principle, by the District Director.

Where the District Director has specified that additional works are required, the maximum discharge criteria described in Schedule F of this Permit are applicable as specified by the Completion Date(s) listed below. Prior to the specified date(s) the existing control works and procedures must be maintained in good operating condition and operated in a manner to minimize emissions.

<b>EMISSION NUMBER</b>	<b>COMPLETION DATE</b>	<b>DESCRIPTION OF CONTROL WORKS/PROCEDURES</b>
01	Completed	An AiR8 spray header application system operated in series with a System REITHER venturi wet scrubber, cyclonic separator, mesh pad demister and related appurtenances together with good operating practices. The bird transfer building is to be operated in a manner to ensure emissions are directed through the control works.
03, 04	Completed	Good operating practices
05	March 31, 2005	Good operating practices.
02	Completed	Stork baghouse collector and related appurtenances associated with the bird in-feed hopper together with good operating practices.





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**SCHEDULE H - Page 1  
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**RECORD OF PERMIT ISSUANCE**

<b>DATE</b>	<b>ACTION</b>	<b>SECTIONS AFFECTED</b>
November 10, 2004	ISSUANCE	Face, Schedules A, B, C, D, E, F, G & H

November 10, 2004



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