

Introduced: 3/7/79
Referred: Resources and
Finance

1 IN THE HOUSE

BY THE RULES COMMITTEE BY
REQUEST OF THE GOVERNOR

2 HOUSE BILL NO. 353

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 ELEVENTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act relating to state assumption of the national
7 pollutant discharge elimination system; changing Ap-
8 pellate Rule 45(a)(2); and providing for an effective
9 date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. AS 46.03.010 is amended by adding a new subsection to
12 read:

13 (c) It is the policy of the state that the prevention, control,
14 and abatement of water pollution is principally a state responsibility,
15 and the legislature intends by this chapter to confer upon the depart-
16 ment all power and authority necessary to implement those programs
17 which can be delegated to a state under the Clean Water Act.

18 * Sec. 2. AS 46.03.020(1) is amended to read:

19 (1) enter into contracts or make grants necessary or con-
20 venient to carry out the functions, powers, and duties of the depart-
21 ment;

22 * Sec. 3. AS 46.03.020(10)(D) is amended to read:

23 (D) collection and disposal of wastewater [SEWAGE AND
24 INDUSTRIAL WASTE];

25 * Sec. 4. AS 46.03.020(10) is amended by adding a new subparagraph to
26 read:

27 (I) implementation of the provisions of the Clean
28 Water Act.

29 * Sec. 5. AS 46.03 is amended by adding a new section to read:

1 Sec. 46.03.095. EFFLUENT LIMITATIONS. (a) The department may,
2 by regulation, adopt effluent limitations promulgated by the admini-
3 strator under secs. 301, 302, 304, 306, 307, or 403 of the Clean Water
4 Act. The adoption by the department of effluent limitations promul-
5 gated by the administrator is subject to AS 44.62.300 only to the ex-
6 tent of determining whether the adoption complies with the procedural
7 requirements of AS 44.62.040 - 44.62.210.

8 (b) Alternatively, and to the extent permissible under the Clean
9 Water Act, the department, if it determines that effluent limitations
10 promulgated by the administrator do not reflect the appropriate stan-
11 dard of the Clean Water Act in this state, may adopt effluent limita-
12 tions which in its judgment do reflect the appropriate standard in
13 this state.

14 (c) If the administrator has not adopted effluent limitations
15 for a category or source, the department may, in consultation with the
16 administrator, establish effluent limitations on a case-by-case basis,
17 applying the applicable standard of the Clean Water Act.

18 (d) The department may, to the extent permissible under sec.
19 301(c) - (1) of the Clean Water Act, grant modifications from any ef-
20 fluent limitation adopted under this section.

21 * Sec. 6. AS 46.03.100 is repealed and re-enacted to read:

22 Sec. 46.03.100. WATER POLLUTION CONTROL PERMIT. (a) A person
23 may conduct an operation which results in the entry of a pollutant to
24 the water of the state only in accordance with the terms of a permit
25 issued by the department.

26 (b) If, on the effective date of this Act, an entry of a pollu-
27 tant is permitted under secs. 402(a)(1) or 404(a) of the Clean Water
28 Act, and the department has certified that permit under sec. 401(a)(1)
29 of the Clean Water Act, the person need not obtain a permit under (a)

1 of this section until the expiration of the federally issued permit,
2 or five years from the date of issuance of the federal permit, which-
3 ever occurs first. The person shall apply for a permit under (a) of
4 this section no later than 180 days before the expiration of the fed-
5 erally issued permit, or the five-year period, whichever occurs first.
6 A violation of a term or condition of a federally issued permit adopted
7 under this subsection is considered a violation of a permit issued by
8 the department under the authority of this chapter.

9 (c) For operations commencing after the effective date of this
10 Act, application must be made at least 180 days before commencement of
11 this operation.

12 (d) For operations which commenced before the effective date of
13 this Act, and which do not fall within the exemption of (b) of this
14 section, application must be made within 60 days after the effective
15 date of this Act.

16 (e) The department may issue general permits under this section
17 for classes or categories of operations which, individually or cumu-
18 latively, do not significantly affect water quality.

19 * Sec. 7. AS 46.03 is amended by adding new sections to read:

20 Sec. 46.03.105. PERMIT REVIEW CRITERIA; TERMS AND CONDITIONS.

21 (a) The department shall issue a permit under AS 46.03.100 if the ap-
22 plicant demonstrates that the operation will comply with:

23 (1) water quality standards adopted under AS 46.03.070 and
24 46.03.080, and maximum daily load requirements which may be adopted to
25 implement water quality standards under sec. 303(d) of the Clean Water
26 Act;

27 (2) applicable effluent limitations adopted under AS 46.-
28 03.095;

29 (3) the statewide or applicable areawide waste treatment

1 management plan approved under sec. 208 of the Clean Water Act; and

2 (4) standards adopted by the department which are in sub-
3 stantial conformity with guidelines and standards promulgated under
4 sec. 404 of the Clean Water Act.

5 (b) No permit may be issued for:

6 (1) the discharge of any radiological, chemical, or biologi-
7 cal warfare agent or high-level radioactive waste;

8 (2) any discharge which the Secretary of the Army, acting
9 through the Chief of Engineers, finds would substantially impair an-
10 chorage and navigation of any water of the United States; or

11 (3) any discharge to which the administrator has objected
12 pursuant to any right provided to the administrator under the Clean
13 Water Act.

14 (c) The department may impose as conditions in permits for the
15 discharge of pollutants from public treatment works requirements for
16 information to be provided by the permittee concerning new introduc-
17 tions of pollutants or substantial changes in the volume or character
18 of pollutants being introduced into the treatment works.

19 (d) The department may impose as conditions in permits for the
20 discharge of pollutants from public treatment works appropriate mea-
21 sures to establish and insure compliance by industrial users with a
22 system of user charges.

23 (e) No permit (other than a general permit) may be issued for a
24 period greater than five years.

25 (f) The department may attach to a permit the terms and condi-
26 tions, including schedules of compliance, it finds necessary to ensure
27 compliance with any applicable standard.

28 Sec. 46.03.107. MONITORING AND INSPECTION. (a) The department
29 may require any owner or operator of any existing or proposed source

1 of a pollutant to:

2 (1) establish and maintain records;

3 (2) make reports;

4 (3) install, calibrate, use and maintain monitoring equip-
5 ment or methods (including, where appropriate, biological monitoring
6 methods);

7 (4) sample discharges in accordance with methods the de-
8 partment may prescribe; and

9 (5) provide other information relating to the entry of a
10 pollutant into water of the state or to introduction of a pollutant
11 into public treatment works as the department may reasonably require.

12 (b) The department, upon presentation of credentials,

13 (1) has a right of entry to, upon, or through any premises
14 in which any pollutant source is located or in which any records are
15 required to be maintained;

16 (2) may at reasonable times have access to and copy any
17 records required to be maintained;

18 (3) may inspect any monitoring equipment or method which is
19 required; and

20 (4) may have access to and sample any entry of a pollutant
21 to the water of the state or to public treatment works resulting from
22 activities or operations of the owner or operator of the premises in
23 which the source of a pollutant is located.

24 (c) For the purpose of this section, "source of a pollutant" in-
25 cludes any permittee under AS 46.03.100 (other than a general permit-
26 tee), and any source of introduction of a pollutant into public treat-
27 ment works by an industrial user.

28 * Sec. 8. AS 46.03.110 is repealed and re-enacted to read:

29 Sec. 46.03.110. PERMIT PROCEDURES. (a) The department shall

1 adopt regulations establishing procedures for review of permit appli-
2 cations, including provisions for public notice and public hearing, in
3 accordance with applicable provisions of the Clean Water Act.

4 (b) When the department receives an application, the commission-
5 er shall immediately send copies of the application to the commission-
6 er of fish and game, the commissioner of natural resources, the com-
7 missioner of commerce and economic development, the commissioner of
8 community and regional affairs, the commissioner of health and social
9 services, and the commissioner of transportation and public facilities.

10 * Sec. 9. AS 46.03.120 is repealed and re-enacted to read:

11 Sec. 46.03.120. TERMINATION OR MODIFICATION OF WASTE DISPOSAL
12 PERMIT. (a) The department may terminate or modify a permit issued
13 under AS 46.03.100 if the department finds that:

14 (1) the permit was procured by misrepresentation of a mate-
15 rial fact or by failure of the applicant to disclose fully the facts
16 relating to its issuance;

17 (2) there has been a violation of a condition of the per-
18 mit; or

19 (3) there has been a change in any condition that requires
20 either a temporary or permanent reduction or elimination of the entry
21 of pollutants.

22 (b) Notwithstanding (a) of this section, monitoring or reporting
23 conditions in a permit may be reasonably modified by the department
24 upon adequate written notice to the permittee.

25 * Sec. 10. AS 46.03.160(b) is amended to read:

26 (b) Within 60 [30] days of receipt of the plans and information
27 for a proposed undertaking, the department shall either approve the
28 undertaking and issue a permit, or if the department determines that
29 the proposed undertaking will not meet the requirements of AS 46.03.-

1 140 - 46.03.150 [SECS. 140 - 150 OF THIS CHAPTER] and applicable regu-
2 lations, it shall issue a prohibition order against the undertaking.

3 * Sec. 11. AS 46.03 is amended by adding a new section to read:

4 Sec. 46.03.715. SOLID WASTE PERMIT. (a) No person may estab-
5 lish, expand, or operate a solid waste disposal facility without ob-
6 taining a permit from the department.

7 (b) Upon receipt of a proper application for a permit under this
8 section the department shall publish notice of the application in two
9 separate publications of a newspaper of general circulation within the
10 general, affected area. The notice may also be published in other ap-
11 propriate information media. The notice must include a statement that
12 a person who wants to present his views to the department in regard to
13 the application may do so in writing to the department within 30 days
14 after the second publication of the notice. The written response en-
15 titles the writer to a copy of the application.

16 (c) When the department receives an application, the commission-
17 er shall immediately send copies of the application to the commission-
18 er of fish and game, the commissioner of natural resources, the com-
19 missioner of commerce and economic development, the commissioner of
20 community and regional affairs, the commissioner of health and social
21 services, and the commissioner of transportation and public facilities.

22 (d) The department may attach terms and conditions to a permit
23 to ensure compliance with appropriate standards. No permit may be ef-
24 fective for a period of more than five years from the date of issuance.

25 (e) As used in this section, "solid waste disposal facility"
26 means an intermediate disposal facility, transfer station, landfill,
27 incinerator, composting plant, recycling or reclamation facility, or
28 any site used for the reduction, consolidation, conversion, processing,
29 or disposal of solid waste, except:

1 (1) a single-family or duplex residence in which solid
2 waste is generated and disposed of on-premises;

3 (2) a farm on which solid waste generated from the opera-
4 tion of that farm is disposed of; and

5 (3) incinerator facilities having a total capacity of less
6 than 200 pounds of solid waste per hour.

7 * Sec. 12. AS 46.03.760 is repealed and re-enacted to read:

8 Sec. 46.03.760. CIVIL ENFORCEMENT. (a) A person who violates
9 or causes or permits to be violated a provision of this chapter, or a
10 regulation, lawful order of the department, a permit, or term or con-
11 dition of a permit issued under this chapter is liable, in a civil ac-
12 tion, to the state for a civil penalty of not less than \$500, nor more
13 than \$100,000, for the first day of violation, and not less than \$500,
14 nor more than \$10,000, for each subsequent day of violation.

15 (b) In computing the amount of the penalty, the court shall in-
16 clude:

17 (1) all reasonable costs incurred by the state in detection,
18 investigation and attempted correction of the violation;

19 (2) a sum which represents the magnitude of the violation,
20 taking into account available scientific evidence regarding the poten-
21 tial effects of the violation upon the environment, and the public
22 health or welfare; and

23 (3) the economic savings realized by the person in deferring
24 compliance with the requirement for which a violation is charged.

25 (c) Except as provided in AS 46.03.758(i), no penalty may be im-
26 posed for less than the minimum amounts specified in (a) of this sec-
27 tion.

28 (d) The department shall, by regulation, establish formulae for
29 the computation of the economic savings realized by the person in de-

1 ferring compliance with the requirement for which a violation is
2 charged. The applicable formula, as applied to the person charged,
3 presumptively represents the amount of economic savings realized. Any
4 judgment, whether or not joined with an equitable remedy under AS 46.-
5 03.765, must include an assessment for any economic savings already
6 accrued, as well as an assessment for any savings, prorated on a daily
7 basis, which will accrue as a result of continued deferred compliance.
8 Prospective daily assessments must cease when the defendant demon-
9 strates, or the department certifies, to the court that compliance has
10 been achieved.

11 (e) As used in this section, "economic savings" includes returns
12 earned on capital which should have been invested to achieve compli-
13 ance (or which was saved as a result of not paying interest on bor-
14 rowed capital), and any operating or maintenance costs avoided.

15 (f) In addition to liability under (a) - (e) of this section, a
16 person who violates or causes or permits to be violated a provision of
17 AS 46.03.740 - 46.03.758 is liable to the state, in a civil action
18 brought under AS 46.03.822, for the full amount of actual damages
19 caused to the state by the violation, including direct and indirect
20 costs associated with the abatement, containment or removal of the
21 pollutant, restoration of the environment to its former state, and all
22 incidental administrative costs.

23 * Sec. 13. AS 46.03.765 is repealed and re-enacted to read:

24 Sec. 46.03.765. INJUNCTIONS. The superior court has jurisdic-
25 tion to enjoin a violation of this chapter or of a regulation, lawful
26 order of the department, or permit, or term or condition of a permit
27 issued under this chapter. In actions brought under this section,
28 preliminary relief may be obtained upon a showing of continuing viola-
29 tion, and probable success on the merits, without the necessity of

1 demonstrating physical irreparable harm. The balance of equities in
2 actions under this section may affect whether immediate preliminary
3 relief should be granted, but not the necessity of compliance within
4 the shortest feasible period of time.

5 * Sec. 14. AS 46.03.850(b) is repealed and re-enacted to read:

6 (b) The recipient of the determination must file with the de-
7 partment, within the time period specified in the notice, a detailed
8 report stating what measures have been and are being taken, or are
9 proposed to be taken, to correct or control the conditions outlined in
10 the notice. The report must precisely and fully describe any time
11 deadlines, materials, processes or practices which the respondent pro-
12 poses. Failure to file a timely report meeting the requirements of
13 this subsection constitutes a waiver of respondent's right to contest
14 any corrective or preventive measures which may be ordered under (c)
15 of this section. In addition, any administrative or contract costs
16 incurred by the department as a result of a failure to file a timely
17 report must be paid by the respondent.

18 * Sec. 15. AS 46.03.850(f) is amended to read:

19 (f) The superior court has jurisdiction to review an order is-
20 sued under this section if appeal is taken to that court within 10
21 days of service of the department's decision under (e) of this section.
22 In addition to other remedies provided by this chapter, compliance or-
23 ders are enforceable under AS 09.50.050. The attorney general shall
24 seek enforcement of a compliance order.

25 * Sec. 16. AS 46.03 is amended by adding a new section to read:

26 Sec. 46.03.865. CONFIDENTIALITY. Upon a satisfactory showing to
27 the commissioner that any information obtained pursuant to any permit
28 requirement of this chapter would, if made public, divulge methods or
29 processes entitled to protection as trade secrets of the person, the

1 commissioner shall protect the information as confidential. However,
2 information accorded confidential treatment may be disclosed or trans-
3 mitted, for a specific purpose stated in writing by the potential re-
4 cipient, to other offices, employees, or authorized representatives of
5 this state or of the United States concerned with carrying out any
6 program related to the prevention, abatement, or control of water,
7 air, or land pollution. Confidential information so disclosed or
8 transmitted retains its confidential status and may not be further
9 disclosed or transmitted by the recipient.

10 * Sec. 17. AS 46.03.900 is repealed and re-enacted to read:

11 Sec. 46.03.900. DEFINITIONS. In this chapter

12 (1) "administrator" means the administrator of the United
13 States Environmental Protection Agency, or his designee;

14 (2) "air contaminant" means dust, fumes, mist, smoke, other
15 particulate matter, vapor, gas, odorous substances, or a combination
16 of these;

17 (3) "air pollution" means the presence in the outdoor at-
18 mosphere of one or more air contaminants in quantities and duration
19 which tend to be injurious to human health or welfare, animal or plant
20 life, or property or which would unreasonably interfere with the en-
21 joyment of life or property;

22 (4) "atomic radiation" includes all ionizing radiation;

23 (5) "broadcast chemicals" means chemical substances which
24 are released into the air or onto land or water for the purpose of
25 preventing, destroying, repelling, stimulating or retarding plant or
26 animal life, or chemical substances released for meteorological con-
27 trol, oil spill control, or fire control;

28 (6) "Clean Water Act" means the Federal Water Pollution
29 Control Act Amendments of 1972, 33 U.S.C. sec. 1251 et seq., as amended

1 by the Clean Water Act of 1977 (P.L. 95-217), and all further Acts
2 amending or supplementing it which are reasonably within the scope and
3 purpose of the Act;

4 (7) "commissioner" means the commissioner of environmental
5 conservation;

6 (8) "department" means the Department of Environmental Con-
7 servation;

8 (9) "effluent limitation" means any limitation, standard of
9 performance, guideline, prohibition, pretreatment standard, or other
10 standard which implements secs. 301, 302, 304, 306, 307, or 403 of the
11 Clean Water Act;

12 (10) "electronic product" means a manufactured product which

13 (A) when in operation, contains or acts as part of an
14 electronic circuit and emits, or in the absence of effective
15 shielding or other controls would emit, electronic product radia-
16 tion; or

17 (B) is intended for use as a component, part, or ac-
18 cessory of a product described in (A) of this paragraph and which
19 when in operation emits, or in the absence of effective shielding
20 or other controls would emit, electronic product radiation;

21 (11) "electronic product radiation" means an atomic radia-
22 tion or nonionizing, electro-magnetic or particulate radiation, or a
23 sonic, infrasonic, or ultrasonic wave which is emitted from an elec-
24 tronic product as the result of the operation of an electronic circuit
25 in the product;

26 (12) "entry of a pollutant to the water of the state" means
27 the addition of a pollutant to the water of the state by any means,
28 except:

29 (A) any discharge of any pollutant when the discharge

1 conforms with the national contingency plan for removal of oil
2 and hazardous substances, published under sec. 311(c)(2) of the
3 Clean Water Act, and any applicable state plan or requirement;

4 (B) water, gas, or other material which is injected

5 (i) through a well into the producing formation
6 either solely to facilitate production of oil or gas or to
7 control land subsidence; or

8 (ii) through a well into an aquifer containing
9 saline water;

10 (C) additions of wastewater into public treatment
11 works; this exclusion applies only to the actual addition of ma-
12 terials into the public treatment works; plans or agreements to
13 make additions in the future do not relieve dischargers of the
14 obligation to apply for and receive a permit until the entry of
15 any pollutants to water of the state is actually eliminated; this
16 exclusion does not relieve the person causing the addition from
17 complying with the pretreatment standards adopted under AS 46.-
18 03.095; and

19 (D) runoff from activities occurring solely outside
20 the water of the state, until activities creating a significant
21 water quality problem due to runoff are identified as requiring a
22 permit under AS 46.03.100 in the statewide or applicable areawide
23 waste treatment management plan approved under sec. 208 of the
24 Clean Water Act; this exclusion applies only to the permit re-
25 quirement of AS 46.03.100; it does not exempt activities creating
26 runoff from any other standard or requirement of this chapter;

27 (13) "facility" means any offshore or onshore structure,
28 improvement, vessel, vehicle, land, enterprise, or endeavor;

29 (14) "industrial use" means those industries identified in

1 the Standard Industrial Classification Manual, Bureau of the Budget,
2 1967, as amended and supplemented, under the category "Division D -
3 Manufacturing," and other classes of significant waste producers as,
4 by regulation, the administrator or department considers appropriate;

5 (15) "motor vehicle" has the same meaning as in AS 28.20.-
6 630;

7 (16) "municipality" means an organized borough or an incor-
8 porated city outside an organized borough, and includes all classes of
9 boroughs and cities whether home rule or otherwise;

10 (17) "person" means any individual, public or private cor-
11 poration, political subdivision, government agency, municipality, in-
12 dustry, co-partnership, association, firm, trust, estate, or any other
13 entity whatsoever;

14 (18) "pesticide" means any chemical or biological agent in-
15 tended for preventing, destroying, repelling, or mitigating plant or
16 animal life and any substance intended for use as a plant regulator,
17 defoliant or desiccant, including but not limited to insecticides,
18 fungicides, rodenticides, herbicides, nematocides, and biocides;

19 (19) "pollutant" means anything which alters the chemical,
20 physical, biological or radiological integrity, including heat from
21 cooling or other operations, and is either man-made or man-induced;

22 (20) "pollution" means the contamination or altering of
23 water, land, or subsurface land of the state in a manner which creates
24 a nuisance or makes the water, land, or subsurface land unclean, nox-
25 ious, impure, or unfit so that it is actually or potentially harmful,
26 detrimental or injurious to public health, safety or welfare, to do-
27 mestic, commercial, industrial, or recreational use, or to livestock,
28 wild animals, birds, fish, or other aquatic life;

29 (21) "public treatment works" includes publicly owned treat-

1 ment works, and treatment works serving as a public utility under AS
2 42.05.701(2)(C);

3 (22) "radiation" means all atomic and electronic product
4 radiation;

5 (23) "radiation source" means any substance, machine, or
6 electronic product which emits radiation;

7 (24) "schedule of compliance" means a schedule of remedial
8 measures including an enforceable sequence of actions or operations
9 leading to compliance with an effluent limitation, other limitation,
10 prohibition, or standard;

11 (25) "sewage" means the water-carried human or animal
12 wastes from residences, buildings, industrial establishments, or other
13 places, together with ground water infiltration and surface water as
14 may be present; the admixture with sewage of industrial wastes or
15 other wastes is "sewage";

16 (26) "sewer system" or "sewerage system" means pipelines or
17 conduits, pumping stations, and force mains, and all other appurtenant
18 constructions, devices, and appliances used for conducting wastewater
19 to a point of ultimate disposal;

20 (27) "solid waste" means all unwanted, abandoned, or dis-
21 carded solid or semi-solid material whether putrescible or non-putres-
22 cible, originating from any source, including but not limited to gar-
23 bage, paper, wood, metal, glass, plastic, rubber, cloth, ashes, litter
24 and street sweepings, dewatered sewage sludge, dead animals, offal,
25 junked vehicles and equipment, material and debris resulting from con-
26 struction or demolition projects or logging operations, abandoned and
27 decaying structures, hazardous wastes, mine wastes, gravel pit, quarry
28 and dredge spoils, and overburden except that originating from the
29 construction of single buildings;

1 (28) "treatment works" means a plant, disposal field, la-
2 goon, pumping station, constructed drainage ditch or surface water in-
3 tercepting ditch, incinerator or other works installed or used for the
4 purpose of treating, neutralizing, stabilizing or disposing of waste-
5 water;

6 (29) "wastewater" means sewage, waterborne industrial
7 waste, laundry liquid effluent, shower or sink water, or other wastes
8 which are waterborne or in a liquid state;

9 (30) "water quality standard" means the measure of purity
10 or quality of water, the maintenance of which is necessary to assure
11 the water's integrity for its reasonable and appropriate use as estab-
12 lished by the department;

13 (31) "water" includes lakes, bays, sounds, ponds, impound-
14 ing reservoirs, springs, wells, rivers, streams, creeks, estuaries,
15 marshes, inlets, straits, passages, canals, the Pacific Ocean, Gulf of
16 Alaska, Bering Sea and Arctic Ocean, in the territorial limits of the
17 state, and all other bodies of surface or underground water, natural
18 or artificial, public or private, inland or coastal, fresh or salt,
19 which are wholly or partially in or bordering the state or under the
20 jurisdiction of the state; the term includes all water subject to
21 federal jurisdiction under the Clean Water Act.

22 * Sec. 18. AS 46.03.180 is repealed.

23 * Sec. 19. The amendment of AS 46.03.850(f), in sec. 15 of this Act,
24 has the effect of changing Rule 45(a)(2), Rules of Appellate Procedure, by
25 requiring appeals from administrative decisions made under AS 46.03.850(e)
26 to be brought within 10 days rather than the 30 days allowed by Rule 45(a)(2).

27 * Sec. 20. Sections 1, 4, 5, 6, 7, 8, 9, 11, 16, 17, and 18 of this Act
28 take effect upon approval of the state's National Pollutant Discharge Elim-
29 ination System program by the administrator of the United States Environ-

1 mental Protection Agency, or his designee, under sec. 402 of the Clean
2 Water Act.

3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29