	พิมพ์ตันฉบับบทคัดย่อวิทยานิพนธ์ภายในกรอบสีเขียวนี้เพียงแผ่นเดียว
# # C626402 KEY WORD:	: MAJOR INTER-DEPARTMENT OF ENVIRONMENTAL SCIENCE INFECTIOUS WASTE, EMISSION GAS, INCINERATOR I CHAIWAT NGAMJETTANAWAT : EMISSION GAS FROM INFECTIOUS WASTE INCINERATORS OF DIVISION OF ENVIRONMENTAL HEALTH, DEPARTMENT OF HEALTH. THESIS ADVISOR : ASSIST. PROF. THARES SRISATIT, Ph.D. ITHESIS COADVISOR : SANGSANT PANICH, Ph.D. 129 PP.ISBN 974-636-825-7.
	The objectives of this study were to determine the efficiency of infectious waste incenerators of Division of
Environmental	Health, Department of Health and to detect pollutants emission from 9 selected hospital incinerators
throughout in	Thailand. It was found that sulphur dioxide (SO ₂), carbon monoxide (CO), and nitrogen dioxide (NO ₂) of all
selected source	l ses were within the emission standards set by Department of Industrial Works. However, 2 of 9 sources
emitted partic	i ulate matter (PM) and hydrogen chloride (HCI) over the standard levels, whereas vinyl chloride monomer
(VCM) and hyd	rogen flouoride (HF) were almost non-detected.
	As for incinerator efficiency, it was found that 7 of 9 of incinerators were capable to destruct infectious
waste with the	feeding rate of 150 kg/hour. This true of incinerator, at the average, produces 6.52 % ash and consumed
0.404 litre of	diesel oil per kilogram of waste. Average of detention time in secondary chamber was 0.35 second, which
was lower tha	the design (0.5-1.0 second). Increasing the detention time of combustion could be done by reducing air
feeding rate of	burners whitch deminish the pollutants from incomplete combustion.
	At 95 % confidence limit., increasing the efficiency of incinerator by reducing feeding time had tendency
	more air pollutants, such as PM ($r = -0.8141$); CO ($r = -0.7381$) ,and VCM which depended on the
	(r = - 0.8141) To achieve the set efficiency, however, loading of infectious waste should be less than 40 kg
for each feedin	g.(adj $R^2 = 0.7391$)
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ภาควิชาสหสาขา	ลายมือชื่อนิสิต Chaiwot Ngangefferment
สาขาวิชา <u>วิทยาศาสตร์สภาวะแวคล้อม</u>	ลายมือชื่ออาจารย์ที่ปรึกษา <u>" " ในเนนีเ</u> ป้
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